POST-TENSIONING
CONVENTION

2025 PTI AWARDS PROGRAM

MAY 5, 2025

Sheraton Phoenix Downtown| Phoenix, AZ, USA

For more information, visit www.post-tensioning.org.

SAVE THE DATE

COMMITTEE DAYS

September 30-October 3, 2025

Kempinski Hotel Cancún
Cancún, Q.R., México

www.post-tensioning.org/events

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Schedule of Events

2025 PTI Awards Program

Monday, May 5, 2025

The 2025 PTI Awards Program will honor the members whose commitment, research and service will continue to shape PTI and the post-tensioning industry for years to come.

6:00 p.m.	Reception
7:10 p.m.	Welcome – PTI President Coy Williams
7:15 p.m.	Dinner
7:30 p.m.	Awards Presentations:
	PTI Service Awards
	PTI Fellow Inductions
	PTI Project Awards

Master of Ceremonies

Tim Christle

Executive Vice President, Post-Tensioning Institute

Tim Christle currently serves as the Executive Vice President for PTI. His focus is to fulfill PTI's mission by promoting and advancing the post-tensioning industry through education, certification and technical leadership.

His 34 years in the A/E/C industry has revolved around post-tensioned concrete structures. His background includes structural engineering consulting and management roles with national A/E firms as well as business development and marketing endeavors with both a post-tensioning systems supplier and a structural concrete subcontractor. Tim is an active member of various concrete industry associations, including the American Concrete Institute (ACI). He is NCEES certified and a licensed Professional Engineer in five states.

Tim graduated from Purdue University with a Bachelor of Science in Civil Engineering (Structural). He continues to support the Chi Epsilon Civil Engineering Honor Society as a former Purdue Chapter President.

Technical Advisory Board (TAB)

The Technical Advisory Board is responsible for all technical and research activities of the Institute, including all publications and promotional material with technical content; it provides a continuous flow of current and pertinent information to the professional membership of the Institute.

Current TAB Members:

Hamid Ahmady
Bryan Allred
Tony Childress
Tim Christle
John Crigler
Martin Cuadra
Jonathan Hirsch
Gregory Hunsicker
Shahid Islam
Thomas Kang
Frank Malits
Brian Merrill
Harley Nethken

Certification Advisory Board (CAB)

The Certification Advisory Board is responsible to initiate, develop, implement, and oversee the individual, plant, and product certification programs of the Post-Tensioning Institute.

Current CAB Members:

Dan Buck
Albert Delgado
Jack Graves
Thomas Helm
Bobby Irvin
Michael Kernan
Randy Plitt
Chad Smith
Todd Stevens
Nick Vejvoda
Coy Williams
Zuming Xia

Congratulations, 2025 PTI Service Awards Winners

Bryan Allred
Asit Baxi
Kyle Boyd
Tony Childress
Shahid Islam
Frank Malits
Neel Khosa
David Sparks

2025 PTI Service Awards

The PTI Service Awards are presented annually by the PTI Technical Advisory Board (TAB) and the PTI Certification Advisory Board (CAB) to groups and individuals who have gone beyond the call of duty and provided PTI with time and resources that are out of the ordinary.

James R. Cagley Medal for the Most Active Technical Committee Chair

The James R. Cagley Medal for the Most Active Technical Committee Chair is awarded yearly for dedication and active leadership as Chair of a PTI Committee. It is recognition of outstanding contributions to the post-tensioning industry and to PTI.

Kyle Boyd
KSB Engineers

Kyle Boyd, P.E., is a Licensed Professional and Structural Engineer with over a decade of experience, currently practicing at KSB Engineers. Licensed in 21 states, Kyle specializes in post-tensioned concrete, having designed and overseen the construction of more than 10 million square feet of elevated post-tensioned concrete structures.

His career began in the construction industry, where he earned his Level 2 Unbonded PT Inspector Certification and successfully led intricate, large-scale projects. Transitioning into structural engineering, Kyle harnesses his hands-on field experience to create designs that are both economical and highly constructable, meeting the demands of modern construction.

A dedicated member of PTI, he actively contributes to the DC-20 (Building Design) committee and serves as chair of EDC-130 (Education), advancing industry standards through education and innovation.

2025 PTI Service Awards (Continued)

Russell L. Price Award for the Most Active Committee Member

The Russell L. Price Award for the Most Active Technical Committee Member is awarded yearly in recognition of active involvement and contributions to a PTI Technical or Certification Committee. It is recognition of outstanding contributions to the post-tensioning industry and to PTI.

David Sparks
Felten Group

David Sparks, S.E., is a Principal Engineer at Felten Group and has over two decades of experience in residential engineering and construction. With a BSCE-Structural from the University of Arizona, David holds both California PE (2003) and Arizona SE (2006) credentials. His expertise spans structural design for residential buildings nationwide, with a focus on wood design and Post-Tensioned Slab-on-Ground foundations.

David has contributed extensively to advancing the field through developing structural design tools and teaching courses for organizations like ICC, ASU and Colorado School of Mines. He actively supports industry progress as a member of ASCE7-28, PTI DC10.5 and SEAC Wind Committee (as vice-chair). His specialization in construction defect litigation and forensics makes him a recognized leader in the engineering community. Based in Colorado, David balances his professional excellence with a passion for outdoor pursuits and is currently completing his private pilot license.

2025 PTI Service Awards (Continued)

Kenneth B. Bondy Award for the Most Meritorious Technical Paper

The Kenneth B. Bondy Award for the Most Meritorious Technical Paper is awarded annually in recognition of a significant impact of a published paper in the PTI *JOURNAL* or a paper presented at the PTI Convention to recognize the recipients outstanding contributions to the post-tensioning industry and to PTI.

The Kenneth B. Bondy Award is presented to Asit Baxi for the paper "Post-Tensioned Transfer Members in High-Rise Buildings in the United States" published in the second issue 2024 edition of the PTI *JOURNAL*.

Asit Baxi
Baxi Engineering, Inc.

Dr. Asit Baxi is the President of Baxi Engineering, Inc. (BEI) and Global Post-Tensioning Solutions (GPT), where he has made significant contributions to advancing post-tensioning technology and industry standards. With a career dedicated to pushing the boundaries of innovation, Asit has become a recognized leader in the field.

He is honored as a Fellow of both PTI and ACI, solidifying his reputation as an expert in structural engineering. Through his leadership, he actively serves on numerous influential committees and boards within these organizations, driving progress and shaping best practices across the industry. Asit's unwavering commitment to excellence has left a lasting impact on the development of safer, more efficient and innovative post-tensioning solutions worldwide.

2025 PTI Service Awards (Continued)

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The Kenneth B. Bondy Award is presented to Bryan Allred, Neel Khosa and Frank Malits for the paper for the paper "Thoughts Concerning Post-Tensioning Elongation Records" published in the second issue 2024 edition of the PTI *JOURNAL*.

Bryan Allred
Seneca Structural Engineering, Inc.

Bryan Allred, S.E., serves as the Vice President of Seneca Structural Engineering, Inc., a renowned firm specializing in innovative post-tensioning design solutions for both new and existing structures. Based in Newport Beach, California, Bryan brings a wealth of expertise to the field of structural engineering, contributing significantly to advancements in post-tensioned concrete applications.

He is an active member of the Technical Advisory Board and Building Design and Education Committee of PTI and a valued participant on the ACI 423 committee. Bryan also co-authored the widely recognized book, *Post-Tensioned Concrete, Principles and Practice, 4th Edition*, a leading resource in the industry. His dedication to professional excellence and technical innovation has positioned him as a key figure in the engineering community, furthering the application and understanding of post-tensioned concrete design and analysis.

2025 PTI Service Awards (Continued)

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Neel Khosa
AMSYSCO

Neel Khosa is the President of AMSYSCO, a leading supplier of unbonded post-tensioning systems headquartered in Chicago. With an impressive portfolio of over 1,000 PT projects, Neel has contributed to the construction of super-tall skyscrapers, parking structures, office buildings and hotels, bringing unmatched expertise to the field of post-tensioning.

As a PTI Fellow, Neel plays an active role in advancing the industry. He serves as Chair of ACI-301-I and actively participates in ACI-301, ACI-423, PTI M-10, PTI DC-25 and the CTBUH Skyscraper Center Editorial Board. His academic credentials include a BS in Civil Engineering from the University of Illinois-Urbana and an MBA from the prestigious University of Chicago. Neel's dedication and leadership have solidified his reputation as a key figure in the post-tensioning community.

2025 PTI Service Awards (Continued)

Kenneth B. Bondy Award for the Most Meritorious Technical Paper

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Frank Malits
Cagley & Associates, Inc.

Frank S. Malits, PE, FACI, FPTI, is a senior principal engineer at Cagley & Associates, Inc., bringing over 37 years of expertise in structural engineering for commercial buildings. He is a registered professional engineer in 18 states and the District of Columbia.

As a Fellow of PTI, Frank plays a vital role on its Board of Directors and actively contributes to several key committees, including DC-20 and the Task Group advising on ACI 318. Additionally, Frank is a Fellow of ACI, where he is deeply involved in pivotal committees. He chairs Subcommittee A of ACI 318 and contributes significantly to ACI 301 and ACI 329, showcasing his dedication to advancing structural engineering standards.

REGISTER TODAY!

PT RESEARCH FUNDRAISING MIXER

Join PTI Convention attendees and guests for an evening of networking, entertainment, food and beverages at the Research Fundraising Mixer. All proceeds will support the ongoing advancement of post-tensioning research.

Tuesday, May 6, 2025 | 5:45 p.m. | Chase Field

This event requires an admission ticket. If you'd like to attend, please visit the PTI Registration desk to secure your ticket.

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PTI Fellow

A PTI Fellow shall have made outstanding contributions to the post-tensioning industry in the areas of education, research, development, design, construction, or management. In addition, a PTI Fellow shall have made significant contributions to PTI through committees and/or other involvement and shall have been an active member of PTI for at least the most recent five consecutive years.

Current PTI Fellows:

Bijan Aalami
Hamid Ahmady
Rashid Ahmed
Fabio Albino de Souza
Bryan Allred
Asit Baxi
Kenneth Bondy
James Cagley
Gregory Chacos
Guy Cloutier
John Crigler
Martin Cuadra
James Donnelly*
David Eastwood
David Goodyear
Jack Graves, Jr.
Scott Greenhaus
H.R. (Trey) Hamilton
Joe Harrison
Carol Hayek
Norris Hayes*
Jonathan Hirsch
Gregory Hunsicker
Donald Illingworth
Terry Johnson
Thomas Kang
Neel Khosa
Rattan Khosa
Marc Khoury
Don Kline
William Klorman
Cary Kopczynski
Larry Krauser
Frank Malits
David Martin
Richard Martter*
Thomas Mathews
Brian Merrill
Andrew Micklus, Jr.
Dan Moser
Harley Nethken
Homer Parker, Jr.
Randy Plitt
Randall Poston
Russell Price
Dean Read
Douglas Schlegel
Andrea Schokker
Guido Schwager
Charles Skarbrevik
Felix Sorkin
Tami Spicer
Todd Stevens
James Sudduth
Ryne Stoker
Bob Sward
Coy Williams
Michael Williams
Zuming Xia

* Deceased

Congratulations, new PTI Fellows

Tony Childress
Shahid Islam

New PTI Fellow

Tony Childress

Childress Engineering Services, Inc.

Tony H. Childress, P.E., S.E., is the founder and owner of The Childress Companies, including Childress Engineering Services, Inc., with offices in Dallas and Austin, Texas, and several other firms across California. Since 1987, he has specialized in structural design, consultation and construction management, earning a reputation for innovative engineering solutions.

He is the creator of SlabTek, a patented method for installing suspended post-tension foundations. Licensed in 36 states, Tony actively serves on the Executive Committee and Technical Advisory Board of PTI, where he is also Vice Chair of the DC-10 Slab-on-Ground Committee. His dedication to advancing engineering through education, technical innovation and professional service has solidified his standing as a leader in the field.

New PTI Fellow

Shahid Islam
DYWIDAG

Dr. Shahid Islam, Ph.D., serves as the Technical Director for the Americas at DYWIDAG and is a highly accomplished Structural Engineer with over 20 years of experience in advancing the field. He earned his Ph.D. in Structural Engineering from the University of Illinois at Chicago and joined DYWIDAG in 2001.

Since then, he has emerged as a leader in post-tensioning systems, cable-stayed structures, anchors and structural repair. Shahid has been instrumental in introducing innovative solutions, such as epoxy-coated and replaceable tendons, and has contributed to iconic projects like the Penobscot Narrows Bridge and the Sixth Street Viaduct. An active contributor to industry committees such as PTI and ASTM, he works to advance standards in structural engineering. In 2020, he received the prestigious ASBI Leadership Award, underscoring his commitment to innovation and excellence in the industry.

Thank You To Our 2025 PTI Convention Sponsors

Sponsors as of April 2, 2025

Major Sponsor	Welcome Reception	AOE
Major Sponsor	Awards Reception	Post Tech Manufacturing
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	Folder Sponsor	PS=0
Monday	Coffee Break Sponsor	Martin Specialty Products
Tuesday	Coffee Break Sponsor	Jacks & Accessories, Inc
Monday	Lunch Break Sponsor	Insteel Wire Products

PTI Project Awards

The PTI Project Awards honors exceptional post-tensioning structures from around the world. Projects are recognized for the degree of innovation, complexity, cost-effectiveness, functionality, constructability, and aesthetics, while embracing the use of post-tensioning as the primary structural reinforcing system.

Any structure completed or rehabilitated in the past five years that uses post-tensioning as a structural component was eligible. Entries were submitted by either the owner, architect, engineer, contractor, or post-tensioning supplier. Projects were juried by an independent panel of industry professionals for first place, "Award of Excellence," second place, "Award of Merit," and "Project of the Year" category awards.

Congratulations, 2025 PTI Project Awardees

PTI Award of Merit: Bridges

Schuylkill River Trail Extension from Christian Street to Grays Ferry Crescent

Location:
Philadelphia, Pennsylvania

Completed:
October 31, 2024

Submitted By:
PKF Mark III

PT Supplier:
DYWIDAG-Systems International USA Inc.

Additional Contributors:
City of Philadelphia
AECOM
Janssen & Spaans Engineering, Inc.
PKF Mark III, Inc.

The Schuylkill Banks Christian to Crescent Trail Project in Philadelphia improves connectivity with Pennsylvania's first three-span concrete cable-stayed bridge. Featuring a 650-foot S-curve main span, the bridge navigates geographical constraints with six-sided post-tensioned towers for strength and vibration dampeners for durability.

The project also included a 30-foot post-tensioned arch culvert for water management and an 85-foot tunnel beneath the roadway for pedestrians and cyclists. Designed with input from engineers, architects and construction teams, the project prioritized functionality, safety and sustainability, meeting the community's needs while enhancing infrastructure for long-term use.

RE-WATCH NOW!

Buildings Webinar Series:

"Advantages of Post-Tensioned Buildings"

Ep. 1 Cost Effectiveness

Ep. 2 Design Flexibility

Ep. 3 Sustainability

Ep. 4 Durability & Resilience

Panel Includes:

Martin Cuadra, PE
Uzun + Case Engineers

Carol Hayek, PhD
CCL - Prestressed Concrete Specialists

Don Kline, PE
Kline Engineering & Consulting, LLC

Martin Maingot, PE, SE
VSMsq Structural Engineers, LLC

www.post-tensioning.org/buildings

PTI Award of Merit: Buildings

Koula

Location:
Honolulu, Hawaii

Completed:
September 9, 2022

Submitted By:
BASE

PT Supplier:
CMC Rebar

Additional Contributors:
BASE
Studio Gang
Hawaiian Dredging Construction Company
The Howard Hughes Corporation

Koula, a 41-story mixed-use tower in Honolulu, Hawaii, highlights advanced engineering and architectural innovation. Spanning 865,000 square feet, the building includes 566 residential units, retail spaces, and a variety of shared amenities. A defining feature of the design is a series of sculpted columns inspired by sugar cane reeds, which provide both structural support and a distinct visual identity.

Constructed using post-tensioned concrete slabs and modularized formwork, the tower achieves both flexibility and efficiency while adhering to stringent height requirements. Sustainable design solutions, such as energy-efficient systems and waste reduction measures, further establish this project as a model of modern, high-performance urban architecture.

PTI Award of Excellence: Buildings

One River North

Location:
Denver, Colorado

Completed:
April 2, 2024

Submitted By:
Jirsa Hedrick

PT Supplier:
Suncoast Post-Tension

Additional Contributors:
The Max Collaborative
MAD Architects
Davis Partnership Architects
Saunders Construction
Jirsa Hedrick

The One River North project in Denver's RiNo neighborhood is a 16-story, 187-unit residential building that draws inspiration from the Rocky Mountains. Its standout feature is a dramatic canyon-like cut through the façade, showcasing terraced planters, cascading waterfalls and tranquil meditative spaces.

The bold architectural vision was made possible through post-tensioned concrete construction, allowing for long spans, cantilevers and flowing curved shapes. This development merges technical ingenuity with natural elements, redefining urban living and sustainable mixed-use design for the future.


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May 3-7, 2026
The Westin Long Beach
Long Beach, CA, USA
www.post-tensioning.org/events

PTI Award of Merit: Industrial or Special Applications

Rodoparkki

Location:
Helsinki, Finland

Completed:
November 15, 2023

Submitted By:
RakenneStudio Oy / Structural Studio Ltd

PT Supplier:
Nousujohde Raudoitus Oy

Additional Contributors:
RakenneStudio Oy
Pohjola Rakennus Oy Suomi
Helsingin Laudoitus Oy
Arkkitehdit Anttila & Rusanen Oy

Rodoparkki, a hillside parking structure in Helsinki, Finland, provides 91 spaces across two levels. To address unique site challenges and harsh winter conditions, the project transitioned from precast concrete to a cast-in-place, post-tensioned beam-slab system. This shift enhanced structural efficiency and reduced costs while adapting to the terrain's demands.

Post-tensioned vertical tendons in the retaining walls further improved performance and minimized material usage. Integrated seamlessly into its sloping site, the structure reduced excavation needs and lowered environmental impact. The project exemplifies how thoughtful engineering can create functional, sustainable solutions that harmonize with their natural surroundings.

PTI Award of Excellence: Industrial or Special Applications

Reviving Heritage: Surfside's Journey from Historic Landmark to Luxury Haven

Location:
Surfside, Miami, Florida

Completed:
October 30, 2023

Submitted By:
Kline Engineering & Consulting

PT Supplier:
PTE Systems International

Additional Contributors:
Fort Partners
Kline Engineering & Consulting
Structural-Builders & Restorations (S-BR)
ODP Architecture & Design
John Moriarty & Associates

The Reviving Heritage project in Surfside, Miami, Florida, revitalized a historic 1936 building, designated a landmark in 2014, by transforming it into a modern residence. Advanced hybrid post-tensioning systems played a pivotal role, preserving and relocating the original façade. These systems enhanced load distribution, reduced material usage, and allowed for the creation of a below-grade structure and flexible, open interiors, all while maintaining the building's historic character.

By combining preservation with innovative engineering, the project showcases how thoughtful techniques can honor architectural history while addressing contemporary demands, seamlessly blending the past and present for a dynamic and functional space.


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PTI Award of Merit: Parking Structures

Circa Garage Mahal

Location:
Las Vegas, Nevada

Completed:
October 1, 2020

Submitted By:
Superior Post Tension

PT Supplier:
Superior Post Tension

Additional Contributors:
18 Fremont St. Acquisitions LLC
Choate Parking Consultants, Inc.
Ficcadenti Waggoner and Castle
McCarthy Building Companies

Circa Garage Mahal, located in downtown Las Vegas, is an eight-story parking structure completed in 2020 to support the Circa Resort. It offers 982 parking spaces and includes designated rideshare lanes for smoother passenger pick-up and drop-off. The structure features climate-controlled walkways that connect directly to the resort, enhancing accessibility for guests.

The garage was constructed using post-tensioning, allowing for an open design with fewer columns, creating a more spacious layout. The building's façade incorporates LED lighting and rotating art installations, while enhanced safety measures ensure a secure environment for users. Circa Garage Mahal showcases a blend of functional design and thoughtful engineering tailored for urban parking needs.

PTI Award of Excellence: Parking Structures

California State University, Los Angeles, Parking Structure E

Location:
Los Angeles, California

Completed:
December 31, 2019

Submitted By:
Walker Consultants

PT Supplier:
Gerdau, Post-Tensioning Division

Additional Contributors:
Walker Consultants, Inc.
WRNS Studio
California State University, Los Angeles
Rudolph & Sletten Inc.

Parking Structure E at California State University, Los Angeles, is a five-level facility offering 2,200 parking spaces. The design incorporates sustainable features, including rooftop solar panels for renewable energy generation, 44 electric vehicle charging stations and perforated metal panels on the façade that enable natural ventilation, reducing energy use.

Post-tensioning was employed in the construction to enhance structural efficiency and optimize material usage, meeting functional requirements within budget. Clear pedestrian pathways improve campus connectivity, while the progressive design-build approach ensured a balance between innovation and practicality. The structure reflects a commitment to sustainable and functional growth for the campus.

PTI Award of Merit: Repair, Rehabilitation, & Strengthening

TSX Broadway

Location:
New York, New York

Completed:
May 31, 2023

Submitted By:
Structural Technologies

PT Supplier:
Structural Technologies / VSL

Additional Contributors:
L&L Holdings
Pavarini McGovern
Mancini Duffy
Severud Associates
Sorbara Construction / Winco

The TSX Broadway project in Times Square, New York City, transformed a historic site into a 660,000-square-foot mixed-use development, completed in 2023. Central to the project was the use of three massive post-tensioned transfer girders, each 130 feet long, 40 feet deep and 5 feet wide, designed to support the structure above the raised Palace Theater.

Post-tensioning was chosen for its ability to handle extreme loads within the tight constraints of Times Square. Despite logistical challenges like limited space, rebar congestion and complex tendon placement, the project successfully delivered one of the most advanced applications of post-tensioning, showcasing exceptional engineering and collaboration.

PTI Award of Excellence: Repair, Rehabilitation, & Strengthening

The Landmark Plaza

Location:
Los Angeles, California

Completed:
January 11, 2021

Submitted By:
Structural Technologies

PT Supplier:
Structural Technologies

Additional Contributors:
Douglas Emmett
Gensler
Saiful Bouquet Structural Engineers
Matt Construction

The Landmark Plaza project in Los Angeles, California, reimagines an 88,700-square-foot parking structure as the foundation for a 34-story high-rise. The transformation required significant structural enhancements, including post-tensioning upgrades, beam modifications and deck reinforcement to support the addition of 80 trees, public green space and the tower itself.

These upgrades showcase the use of advanced engineering techniques to adapt and repurpose existing infrastructure for modern urban needs. This innovative retrofit balances sustainability and functionality, creating a vibrant, multi-purpose space within a dense cityscape while optimizing the use of available resources.

PTI Award of Merit: Slab-on-Ground

Amity Regional High School Track and Field Facility

Location:
Woodbridge, Connecticut

Completed:
October 26, 2021

Submitted By:
Classic Turf Company

PT Supplier:
Builders Post-Tension

Additional Contributors:
Amity Regional High School
FieldTurf USA, Inc.
SLR Consulting
Classic Turf Company

At Amity Regional High School in Woodbridge, Connecticut, the running track and field facility has been reconstructed using post-tensioned concrete technology. The track was built as a single, joint-free slab with continuous steel cabling, a design that prevents cracking and settling commonly seen with traditional asphalt tracks.

The project also included the installation of a synthetic turf field made with durable, weather-resistant materials and a 13mm synthetic track surface designed to handle New England's temperature fluctuations. During construction, materials were recycled where possible to reduce environmental impact. This facility upgrade involved precise engineering and modern construction methods, ensuring long-term functionality for the Amity community.

PTI Award of Excellence: Slab-on-Ground

APEX Motor Club Trackside Garages

Location:
Maricopa, Arizona

Completed:
February 1, 2023

Submitted By:
Superior Post Tension

PT Supplier:
Superior Post Tension

Additional Contributors:
APEX Motor Club
Amcon LLC
Wright Engineers

Apex Motor Club in Maricopa, Arizona, redefines luxury with its groundbreaking trackside garages, the first of their kind in the United States. Completed in 2023, these 48 Phase 1 units connect directly to pit lane, offering seamless access to two world-class racetracks. Built with durable 8.25-inch post-tensioned slabs, the garages utilize unbonded tendons spaced for optimal reinforcement, ensuring strength under heavy loads.

The post-tensioning process, including staged stressing and concealed joints, delivered smooth, joint-free surfaces ideal for high-performance vehicles. This advanced engineering not only maximized durability but also set a new standard in premium auto storage, elevating car culture for members.

2025 PTI Project of the Year

One River North

Overview

Located in Denver, Colorado, this stunning 16-story, 187-unit apartment building draws inspiration from the natural beauty of the Rocky Mountains. The design integrates elements of the surrounding landscape, creating a living experience that merges urban living with nature. A standout feature of the building is its outdoor spaces, which include a spectacular "canyon" designed with planters, waterfalls, and meditative pathways. These outdoor features are seamlessly connected via multi-story walkways, offering residents a serene and immersive environment. The building's architectural aesthetic is further elevated by large cantilevers with undulating edges and minimal vertical supports, providing uninterrupted sightlines and enhancing the visual appeal. On the rooftop, residents can enjoy a host of premium amenities, including a swimming pool surrounded by glass railings, offering breathtaking panoramic views of the Rocky Mountains.

Unique Features

This apartment building stands out with unique features like an outdoor "canyon" that blends lush planters, waterfalls and tranquil walking paths, offering a serene escape in the urban landscape. Multi-story walkways seamlessly connect these outdoor spaces to the architecture.

The rooftop amenities are equally stunning, featuring a glass-framed swimming pool with breathtaking Rocky Mountain views. Large cantilevers, some extending 23 feet, and undulating slab edges create a fluid, open design with minimal vertical supports for a dynamic experience.

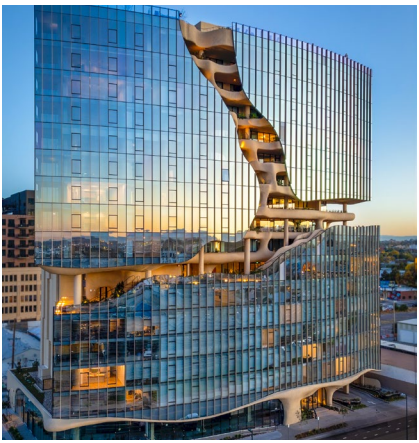
Structurally, the building uses post-tensioned cast-in-place concrete for flexibility, durability, and efficient load distribution. A 40-inch PT transfer slab replaces traditional beams, enhancing parking efficiency and maximizing usable space while maintaining structural integrity. This innovative design merges functionality with aesthetic appeal, redefining modern urban living.

Innovation

This project showcases exceptional innovation in design and engineering, overcoming challenges in the canyon and façade areas while preserving the architectural vision. The flexibility of PT concrete was key, enabling slab steps, supporting heavy load zones and seamlessly managing cantilever cambering.

In the canyon, slabs were pre-compressed with forces of 300-400 psi, combined with mild reinforcement to handle service loads and flexural stresses. This ensured the safe and durable support of landscaping, pathways and outdoor features. Engineers used precise tendon profiles and accurate deflection predictions to meet tight construction tolerances, flawlessly executing the dramatic architectural elements. The result is a harmonious blend of advanced engineering and striking design, demonstrating how innovative techniques can bring ambitious architectural visions to life.

Project Challenges



The project overcame significant structural and architectural challenges, particularly with the canyon and cantilevers. Thickened slab plates were required to support heavy outdoor features like waterfalls and planters, adding complexity. To achieve long cantilevers and uninterrupted views, columns were set back from the façade, demanding innovative engineering. Post-tensioning allowed flexible slab design while addressing stressing and deflection concerns. Height constraints also required thinner slabs to maximize floors without compromising load distribution, balancing performance and feasibility.

Despite challenges, it delivers a luxurious living space with intricate façades, uninterrupted views and a strong connection to the Rocky Mountains. It exemplifies how architecture and engineering can harmonize to create functional, innovative design.

Have Post-Tensioning Questions? We Have Reinforced Answers.

PTI has engineering staff available to assist you with any post-tensioning related technical questions you might have about a document or a project.

If you have a technical question, issue, or challenge to be met with post-tensioning, our team can provide assistance and answer. Contact us via e-mail at *technical.inquiries@post-tensioning.org*.

THE POST-TENSIONING INSTITUTE

Your resource to the post-tensioning industry.

PTI Professionals & Office

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info@post-tensioning.org

Executive Vice President
Tim Christle, P.E.
tim.christle@post-tensioning.org

Director of Association Management Services, AOE
Bryce Barker
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