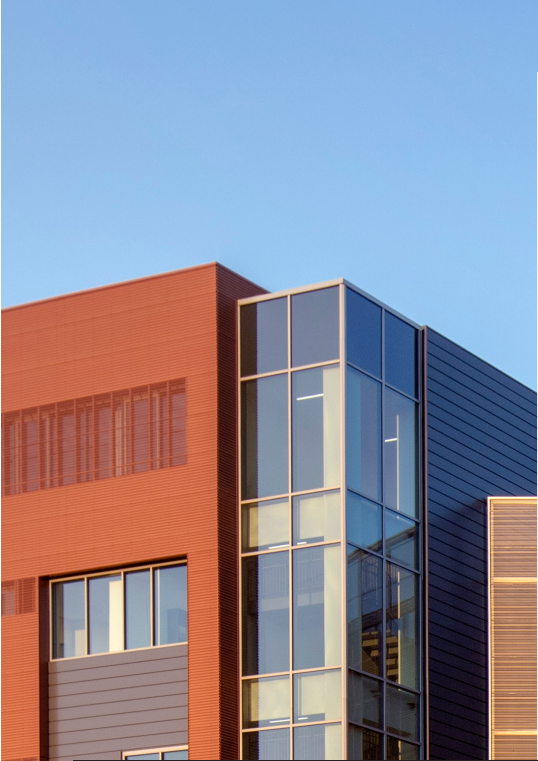
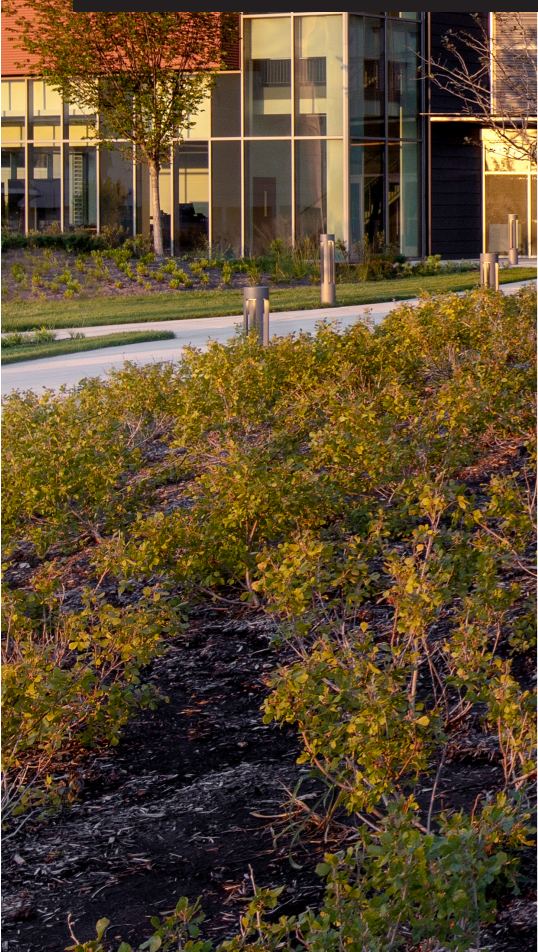




THP is a one-stop structural and architectural engineering firm focused on solving clients' structural building problems and delivering innovative and economical solutions with exemplary client service. To deliver high quality, our engineers step back and look at the whole project/situation. We are value-driven, have a reputation for adherence to the most demanding budgets and schedules, and are committed to restraining construction costs. Our flexible approach saves client dollars in the long run, because we share best practices among our service areas and collaborate with both clients and partners. As we design and manage each project, we provide multiple design options based on the project's overall goals.

STRUCTURAL ENGINEERING



Besides new construction, THP has decades of experience with full building renovations, enabling us to provide guidance on existing structures' capabilities and capacities. Our experience with historic structures and renovation of existing masonry building facades uniquely qualifies us to analyze existing buildings. Additionally, our grasp of code issues, structural implications, durability concerns, and innovative technology all benefit clients as decisions are made that can impact both up-front project cost and future building functions.

THP has a strong presence in the five industries we serve: commercial, healthcare, higher education, industrial manufacturing, and public facilities. We excel at handling projects in these industries throughout the U.S. and internationally.



Experience & Creativity Deliver the Best Solutions

THP's Structural Engineering team specializes in designing structures that meet the project's design requirements, are constructable, and maintain economies. Our listening skills and knowing the questions to ask help to meet design and overall project goals.

We bring vision to life through our experience and innovation with complicated designs, providing creative and economical design solutions to complex structures. We leverage what we learn from complicated structures and use those concepts on all projects to save on construction costs or to enhance efficiencies. Experience helps us simplify any project, regardless of scope or size.

STRUCTURAL ENGINEERING



SERVICES

- Demolition/pre-implosion stability
- Existing structure capacity/load testing
- Façade engineering
- Feasibility studies
- Forensic investigations
- Foundation design
- Litigation consulting
- Seismic analysis/detailing
- Structural frame design
- Structural system selection

Maximizing Return on Investment

THP excels at engineering to best serve your budget, schedule, and useful life of structures. As good stewards of resources, we look at the big picture, collaborate with owners and project team partners to communicate fully and get the optimal solution now and in the future. We get involved very early in the project, and like to be included in discussions with owners, construction managers, and architects when decisions about structure are initially discussed. This early involvement allows the team to select the correct structural system to meet the need from cost and performance standpoints. It also allows the design to progress more quickly, lessening the likelihood of redesign and dragging out the timeline.

Collaboration for the Win

Internal

THP's culture encourages the transfer of knowledge and expertise within the firm. All team members are trained to be proficient and empowered to make decisions that are in the client's best interest. Through internal collaboration, we develop efficient processes with dedicated team members on each design project. We know each team member's expertise and go directly to the subject expert, enhancing productivity.

Project Team

Starting with the owner's goals and the architect's vision, we create optimal solutions to meet design requirements. Working closely with the design team, owner, and contractors enables THP's team to make informed decisions. Regularly scheduled design team meetings encourage open communication between all team members and the owner. BIM 360 allows the team to see changes in real time, rather than waiting on intermittent updates. Clash detection enables us to resolve design interferences before getting to the construction stage, benefiting the project schedule and budget.

We communicate the problem, solution, and progress to the client, as well as feedback to the construction manager. Our partnership/team approach is very collaborative; we work through potential solutions together before presenting them to the owner. Contractors like our thorough documents and concise, understandable reports with clear expectations. We listen to contractors in the field, and there is a constant back-and-forth communication with them.

THP's on-site presence and regular visits during construction administration provide another set of eyes, further enhancing quality assurance. At THP, construction administration is performed by the same individuals who perform the design so there is continuity throughout the project. Our design team provides a single integrated source for the entire construction administration site presence – from principal to project engineer – so we can answer contractor questions as they arise.

Benefits

THP's Structural Engineering team produces optimal solutions, offering the following. We:

- Leverage what we learn from complicated structures and use those concepts on all projects to save on construction cost or to enhance efficiencies. Our experience and innovation help simplify projects, regardless of scope and size.
- Are highly collaborative and get involved early to understand the owner's and architect's goals. We offer suggestions that support those goals. Our bench of partners is deep; if the solution to the challenge is not within our scope or services, we will connect you to the appropriate parties who can.
- Design and provide the solutions for anything structurally – not just concrete, steel, and masonry, but also wood, cold-formed metal framing, and building systems such as modular and tilt-up construction.

STRUCTURAL ENGINEERING



INDUSTRIES SERVED

- Commercial
- Healthcare
- Higher Education
- Industrial/Manufacturing
- Public Facilities



- Know what questions to ask and build great relationships with design team members.
- Have the firmwide staff and level of experience to scale the team for your project.
- Are registered in most states and can “move” with clients as they grow; we routinely review client facilities in multiple states and countries.
- Encourage our team members to build good relationships with clients and partners, because it is beneficial for all parties.

Quality Assurance & Seamlessness

THP employs consistent, proven quality assurance processes. Due to the large and complex nature of many of our projects, we use a formal 24-point quality assurance/quality control checklist. All our service areas have internal weekly huddle meetings to review project work and schedules, and to share information within the team. THP works within several different project delivery methods, including design-bid-build, design-build, design-assist, and Integrated Project Delivery (IPD). Additionally, construction administration is handled by the same team that designs the structure, ensuring a high-quality set of documents and timely, thorough construction follow-up.

How We Do It

The THP Structural Engineering team seeks to understand owners, their business goals, and how our design can further their long-term and short-term overall goals and affect their business. Collaboratively and accurately defining the scope early helps us identify needs and understand budget expectations. Other key best practices that THP employs include that we:

- Identify appropriate structural systems for use/functionality, budget, and region. For example, we have developed a structural selection process to determine the most appropriate building materials (concrete, steel, wood, and more). It ranks building aspect priorities such as flexibility for future use, vibration sensitivity, etc.
- Put the right people on each project team, staffing it with those with the appropriate knowledge, experience, and availability.
- Hold robust, thorough kick-off meetings, discussing CAD, Revit, integration between models, i.e., determining what we should use to work within the architect's model.
- Access appropriate technologies for each project, e.g., using Bluebeam or BIM 360 to collaborate in real time. We have also developed our own technologies to improve efficiencies.
- Utilize Navisworks for clash detection between our and other design team members' models to minimize conflicts in the field.

STRUCTURAL ENGINEERING



THP is Your Best Choice

Our Structural Engineering team enjoys solving challenging structural puzzles creatively and collaboratively, because we find it extremely rewarding to positively impact people, businesses, and communities. Well-designed buildings improve the lives of many people by making the world safer, as well as more equitable and sustainable. Optimal solutions come from experience, knowledge that is passed down, innovative thinking, and continual learning.

Who Does It

THP continually builds a culture and organization that produces the best results for owners and partners by consistently doing many things right, including that we:

- Hire talented people and enable and encourage them to do their best. Our co-op program is one way we do that; we give co-ops project work, develop them, and often hire them as full-time employees.
- Maintain open communication and an “open door” policy with principals in charge. We encourage leadership and new ideas among staff and promote from within.
- Provide an environment that values experience and professional development; this includes mentoring and transitioning responsibilities to younger staff. THP’s typical team member:
 - Has extensive experience and one or more degrees (many have master’s degrees).
 - Is involved in professional development and/or professional organizations such as American Society of Civil Engineers (ASCE), Structural Engineers Association of Ohio (SEAO), Allied Construction Industries (ACI), or American Institute of Architects (AIA); participation and/or leadership.
 - Becomes a thought leader, whether through authoring articles and papers, speaking engagements, or other channels.



PRIMARY LOCATIONS

221 East Fourth Street
Suite 1150
Cincinnati, Ohio 45202
📞 513.241.3222
📠 513.241.2981

812 Huron Road
Suite 850
Cleveland, Ohio 44115
📞 216.553.4973

555 Fayetteville Street
Suite 300
Raleigh, North Carolina 27601
📞 919.341.0225

SATELLITE LOCATION

Northern Virginia

THPLTD.com

