

Mechanical Engineering

Electrical Engineering

Energy Management

LEED®

Commissioning

Architectural Lighting Design

Communication Technologies

Indoor Air Quality

Design/Build



Peter Basso Associates Inc
CONSULTING ENGINEERS



University of Michigan Dearborn Science Learning Research Center Exterior

Peter Basso Associates

is a consulting engineering firm specializing in the design of technically challenging, sustainable and high performance mechanical/electrical systems.

With decades of experience, and LEED® and commissioning expertise, we deliver systems that satisfy building owners and occupants. Working closely with architects and owners, Peter Basso Associates uses a collaborative design process that enables the team to evaluate system options in the context of the entire project, optimizing performance and minimizing cost.



The Basso Advantage

Your Partner in Engineering the Right Building Environment

> ARCHITECTS

Peter Basso Associates is your competitive advantage. In today's market, you need an edge. You need an M/E/P partner that values your client relationships as much as you do, represents your level of professionalism, and works as hard as you to satisfy your clients. With Peter Basso Associates, you get a leader in M/E/P design that gets the big picture - we help you integrate the mechanical/electrical/plumbing systems with facility design, meet budget and schedule, and deliver systems that work. We are at your side from conceptual planning through operation. *That is the Basso Advantage.*

> OWNERS

Peter Basso Associates gives you control over one of the most critical aspects of your facilities: the mechanical and electrical systems. During design, we are at your side to help you make critical decisions. During construction, we resolve contractor questions. During operation, we help to simplify system maintenance and maximize performance. At all times, we are acutely aware of and responsive to budget and schedule issues. *That is the Basso Advantage.*



Southshore Hospital and Medical Center



Washtenaw Community College LASB Lab



Monroe County Community College La-Z-Boy Center

“ Mechanical issues are the #1 source of post-occupancy complaints. Peter Basso Associates designs good systems that work, and follows through the commissioning phases of their projects to ensure fully functioning systems. ”

> Paul A. Corneliusen, AIA, Executive Vice President
French Associates

NATIONALLY-RECOGNIZED LEADER

We excel at highly technical, challenging projects, and our in-depth knowledge of best practices extends across multiple markets. Recognized as a leader in M/E/P engineering, Peter Basso Associates is at the forefront of application of new technology, balancing performance with cost. A Basso system focuses on cost effective solutions that pay returns over the life of the facility.

EXTENSIVE LEED® AND COMMISSIONING EXPERIENCE

At Peter Basso Associates, our designs are inspired with the end in mind. LEED® accredited, we understand the opportunities that exist to maximize efficiencies over the long term. In addition, our commissioning experience has demonstrated what works and what doesn't work once designs become operational. Having learned about other owners' headaches, a Basso design helps you avoid your own.

Bench Strength

Peter Basso Associates employs over 100 professionals who specialize in providing M/E/P engineering services. All of our firm principals maintain client and project involvement. In fact, our unique collaborative design process incorporates review milestones to involve senior members of our team to evaluate and challenge assumptions, parameters and approaches. These internal reviews allow our clients to leverage the knowledge and experience of our senior experts throughout the project.

Basso Designs Deliver

We have learned that the best mechanical/electrical systems are those that go unnoticed. They are seamlessly integrated with the facility infrastructure and fold quietly into the building architecture. Occupants are unaware of system complexities because they work as they should.

COLLABORATIVE DESIGN PROCESS

As your M/E/P project partner, Peter Basso Associates plays a key role in continual collaboration among design team members to better understand the overall vision and business goals for the project. Our unique design process focuses on implementing systems that integrate with building architecture and that perform as designed, optimizing the building owner's investment. By resolving design issues in the early stages, when greatest flexibility exists, we help avoid extra, unexpected construction costs.

SUSTAINABILITY

Peter Basso Associates incorporates sustainability into each of our designs. Collaboration among design disciplines is the key to successful sustainable design. As the M/E/P engineers, we work closely with the architect during design of the building envelope to create synergy with the M/E/P systems, optimizing system design, minimizing long-term energy use, and delivering a pleasant indoor environment.

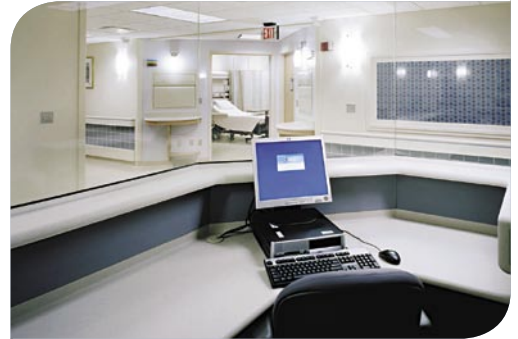
Peter Basso Associates is involved in the development and implementation of best practices in the M/E/P profession. Through our participation and leadership in key professional organizations, our team continues to seek new ways to improve on what we have done before and become better stewards of our natural resources.

TECHNOLOGY

Peter Basso Associates uses the latest technology to improve the clarity of documents. Utilizing tools such as design models and Building Information Modeling (BIM), we are able to communicate system design efficiently to all members of the project team. This helps avoid conflicts during design and surprises during construction, saving the building owner time and money.

“ Most M/E/P firms are followers, not leaders. Peter Basso Associates delivers foresight that you can't get from other firms. ”

> **Keith Owen**, Executive VP Design/Build DeMattia



DMC Cardiac Nurse Station



Carlson High School Pool



University of Michigan Dearborn Science Lab



McCann Erickson Open Office



Eli & Edythe Broad Art Museum | East Lansing, Michigan

LIGHTING & ELECTRICAL SYSTEMS FOR MICHIGAN STATE UNIVERSITY

The Eli and Edythe Broad Art Museum is located on the campus of Michigan State University. The unique architecture required that all mechanical and electrical systems be carefully integrated within the complex angles of the walls and ceilings, while still meeting the strict environmental needs of the facility.

The building environment was designed to achieve museum "Class AA" standards as defined in Chapter 21 of the American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE) Applications Handbook, with design criteria of 70°F ±2°F, and 50%RH ± 5%RH.

All ceiling mounted systems, including lighting, fire alarm, security, sprinkler heads, audio visual, and telecommunication systems were

carefully coordinated to follow distinctive lines that were integral to the interior architecture, and also with careful consideration of the limited service access opportunities in the ceilings. The lighting systems were designed to complement natural light while highlighting (yet preserving) the collections.

With the building located in the harsh winter climate of Michigan, careful consideration was given to avoid condensation at the building's exterior fabric. A unique electric heat trace system, designed in close coordination with Underwriters Laboratories, was incorporated into certain window mullions to prevent condensation on cold winter days.



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Hillsdale College Music Hall



NorthRidge Church "Discovery Island"



Southshore Hospital and Medical Center



Saginaw Valley State University I.F. #4



Washtenaw Community College Central Energy Plant



Marion High School Gymnasium



McCann Erickson Conference Room



West Bloomfield High School Media Center



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