

PENTA's design professionals strive to exceed our client's expectations on each project.

We work as a team to keep projects on schedule and budget while balancing the structural and architectural requirements of our client's projects. PENTA has a vast amount of experience in structural engineering in various types of projects.

### **Traditional Structural Engineering Design Services**

- PENTA's registered structural engineers and professional engineers can provide design, pre-construction administration, and construction administration consulting services for all forms of new construction including office buildings, warehouse/industrial properties, institutional, and soil and fluid retaining structures. Our engineering education and experience along with our state of the art design software allows our engineers to handle our client's most challenging problems. PENTA is proud to have established successful long term relationships with owners, architects, and contractors.



**Specialty Engineering Services** – PENTA can also provide a number of specialty engineering services that usually relate to existing structures. One service we can provide is a structural building evaluation where we will review available drawings as well as the physical performance of the building structure including parking structures.

PENTA has also designed both vertical and horizontal building expansions. These projects required analysis of both gravity and lateral load concerns. PENTA has designed many foundation upgrades as a remedial measure to stabilize poorly functioning/settling foundations. PENTA can also review existing structures to account for new loading conditions and if necessary design upgrades to the structure.

PENTA has a team of registered professional engineers that specialize in disaster assessment and recovery. We can provide professional services in the aftermath of structural failures from accidents, explosions, fires, and natural disasters. PENTA has performed structural evaluations on many buildings throughout Florida and the Gulf Coast Region after numerous hurricanes devastated the area. Our disaster assessment team created field offices to work closely in the field with contractors to develop remediation drawings in accordance with the current Building Codes.

PENTA has also performed numerous load tests on existing structures. By use of hydraulic pressure or dead weight, PENTA can load and monitor structures or portions of structures that require load testing. PENTA has also performed structural peer reviews and construction document plan coordination. PENTA can also act as a construction coordinator/construction manager when requested.

