

# Helios Plaza

201 Helios Way  
Houston, Texas



## General Building Data

Size: 423,500 GSF  
Height: 113'  
Occupancy: Office, Conference Center



## Structure

**Framing System:** 24 in<sup>2</sup> concrete columns and post-tensioned concrete girders with cylindrical steel columns and long span steel W-shapes.

**Lateral System:** Concrete moment frames in combination with rigid diaphragm floor system.

**Floor System:** Two systems typically used. Composite 20 gage decking with lightweight concrete topping and one-way pan joist systems.

**Foundation:** Spread concrete footings with 4000 psi strength.

**Kevin Zinsmeister**

<http://www.engr.psu.edu/ae/thesis/portfolios/2011/kzz5000/>

## Project Team

Owner: BP p.l.c.  
Architect: Gensler  
CM: Bovis Lend Lease Construction Ltd  
Structural: Walter P. Moore & Associates, Inc.  
MEP: I.A. Naman + Associates, Inc.  
Vertical Transportation: Persohn/Hahn Associates, Inc.  
Security: CPP and Associates  
CHPP: Turbine Air Systems

## Architecture

The design principle is based upon functional, pragmatic design. Utilizing a simple box shape, the building is built in a three stack design to accommodate for two-story trading floors. A true campus environment is achieved by incorporating large expanses of Katy Prairie land in addition to multiple International Cafes on every floor of the six-story complex.

## MEP Systems

**Mechanical:** VAV systems with 555,500 CFM exchange rate. 5 MW natural gas fired combined heat and power system in combination with chillers.

**Electrical:** 3 $\phi$  208Y/120V service voltage. 2 UPS Systems with 3-500kVa modules.

**Lighting:** Aggressive lighting scheme with high efficiency direct/indirect fixtures. 82% of regularly occupied spaces day lit.

**Structural Option**