



- Fort Myers
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May 14, 2010

The City of Key West  
City Hall  
525 Angela Street  
Key West, Florida 33040  
Attn: Jim Scholl, City Manager - sent via email to jscholl@keywestcity.com

**Re: The City of Key West Administration Building Complex  
Project Design Summary – Structural Systems**

Dear Mr. Scholl,

We have prepared a brief summary of how we have designed the City of Key West Administration Building Complex's structural systems and building envelope. Specifically, this summary addresses how our design responds to the wind load requirements of Key West.

### **Structural Systems**

- The structural system for the Administration Building is primarily precast concrete columns, beams and panels, with hollow-core floor and roof slabs, and metal and glass curtain wall systems to enclose the openings.
- The Fire Station, which is attached to the Administration Building, will be architectural/structural precast concrete wall panels with a precast concrete double-tee second floor and a light-gage metal truss roof.
- The Parking Garage will be precast concrete columns, beams and wall panels with precast concrete double-tee floors.
- The precast together with the curtain wall systems provide a wind resistance rating of 170mph, exceeding the minimum code requirements for Key West.
- The structural precast concrete systems, which make up approximately 40% of the building materials, can be manufactured regionally with recycled material content and erected in a short time frame compared to traditional site built construction methods.
- Connections for all equipment to be located at the building exterior are designed for 170 mph. wind loads.

Prepared by TKW Consulting Engineers