

## **Fire Station #29 – San Diego, CA**

### **Description of Project**

New 10,000 s.f. fire station in San Diego, CA. Specifications Consulting and LEED™ Consulting to CCBG Architects, San Diego, CA. Construction completed 2004.



### **Obstacles Overcome:**

Project is the 1st LEED™ Certified Project project to be constructed by the City of San Diego.

Originally designed as a wood structure, the Fire Station was redesigned as a steel facility to allow for the use of recycled materials for the building frame. Other materials such as concrete aggregates are from recycled sources.

### **Benefits Provided:**

- **Recycled Content:** The Owner (City of San Diego) decided to submit this project for LEED certification at the Design Development Phase. The project was originally designed to be a wood structure, but was redesigned as a steel structure to allow for the use of recycled materials for the building frame. Other materials, including concrete aggregates, were specified to be from recycled sources.
- **Waste Reduction:** Per LEED™ requirements, a Waste Management Plan was specified to be provided by the Contractor.
- **LEED™ Rating system:** This was the first building for the City of San Diego to include the LEED™ rating system in the design and construction of the project. A Silver Rating was originally set as the goal to be achieved. In conjunction with a program offered by the local power company, roof mounted photovoltaic panels will be used to provide approximately 50% of the power required by the building. Agriboard was specified for the casework and recycled materials were specified for flooring. A vehicle recharging stations will be provided in the parking lot.
- **Eco-Charettes:** Individual meetings were held during design with key consultants and the subcontractors to determine those environmental strategies that best fit the project. The Owner was included in the primary meetings, especially in the determination of the use of photovoltaics..
- **Design guidelines/Master Spec:** The GrEn-Spec Master specification was used for the first time, and included the applicable LEED™ requirements.
- **Green O & MS:** The City of San Diego is investigating the use of green operation principles in the on-going operations of this building and all city owner buildings..
- **Commissioning:** The project received fundamental building commissioning.
- **Energy Modeling and Analysis:** Energy modeling was provided the Mechanical / Electrical engineer for the project to determine the best mechanical systems and associated envelope materials.

Architect: CCBG Architects, San Diego, CA

LEED CERTIFICATION ACHIEVED: .LEED-NC v2.1 Gold Certification, August 14, 2007