



THOMAS BELL COMMUNITY CENTER GYMNASIUM ADDITION ALBUQUERQUE, NM

44% total water use reduction

86% construction waste recycled

Within this project **47%** of materials are recycled.

LEED® Facts

Thomas Bell Gymnasium Addition
Albuquerque, NM

LEED for New Construction v2.2
Certification awarded July 2010

Gold 50 pts awarded*

Sustainable Sites	8/14
Water Efficiency	4/5
Energy & Atmosphere	15/17
Materials & Resources	6/13
Indoor Environmental Quality	12/15
Innovation & Design	5/5

**Out of a possible 69 points*

The information provided is based on that stated in the LEED® project certification submittals. USGBC and Chapters do not warrant or represent the accuracy of this information. Each building's actual performance is based on its unique design, construction, operation, and maintenance. Energy efficiency and sustainable results will vary.

THOMAS BELL COMMUNITY CENTER GYMNASIUM ADDITION

Green Gym: First in the State of New Mexico

City of Albuquerque Proud to Provide Healthy, Energy Efficient Building

PROJECT BACKGROUND

This project includes a gymnasium addition for Thomas Bell Community Center. The 8,355 square foot gymnasium connects to the existing building and navigates a challenging 17% sloped site while working to provide users with an energy efficient, and healthy recreation space under the USGBC LEED-NC v2.2 certification process. LEED-NC Gold Certification was awarded in July 2010.

STRATEGIES AND RESULTS

- Energy loads were reduced with an efficient mechanical system, a cool roof and a super-insulated building envelope.
- Solar panel heat exchange units provide the hot water for the gymnasium.
- Several innovative wastewater technologies reduce the generation of wastewater and potable water demand, while increasing the local aquifer recharge and maximizing water efficiency (1.1gpf) toilets, low-flow showers (1.6 gpm) and lavatory faucets with sensor controls. A Reclaimed Water System has the showers and lavatories drain into a cistern until needed for flushing the toilets. The water system uses reclaimed water for a 44.3% total water use reduction.
- To minimize interior heat loads and energy use, daylighting controls and occupancy sensors are installed throughout the regularly occupied spaces.
- All landscaping is no or low water use, reducing exterior water consumption by 98.55% from a calculated baseline.
- 86% of onsite generated construction waste was diverted from the landfill during construction
- All interior finishes are not only durable and aesthetically appealing, they also are specified to contain no or low volatile organic compounds (VOC), and no urea formaldehyde.
- Interior finishes contain a recycled content, 47.73% of the total building materials content, by value. 43.29% of the materials used on the building were also regional materials either extracted, harvested or recovered, as well as manufactured within 500 miles of the project site.

ABOUT THE TEAM

Cherry/See/Reames Architects has designed environmentally sensitive buildings since Edie Cherry and Jim See opened their doors over thirty-four years ago. Daylighting, longevity and site orientation/considerations are part of every design produced. Tina Reames, who joined the firm in 1992 and became partner in 2006 headed the Thomas Bell Community Center Gymnasium Addition as the firm's first LEED project. Environmental Dynamics Inc. helped navigate the LEED process for the entire Design team. Both the Design Team and the General Contractor, Longhorn Construction Services went above and beyond many of the LEED targets helping to achieve more points than anticipated. Due to these efforts, the project was awarded Gold instead of the projected Silver certification level.

"The greenest gym in the state...its really remarkable, we've raised the bar."

Martin Chavez,

Mayor of Albuquerque

Albuquerque Journal, May 16, 2009



Architect: Cherry/See/Reames Architects, LLP
Civil Engineer: High Mesa Consulting Group
Commissioning Agent: Continuant, Inc.
Contractor: Longhorn Construction Services
Landscape Architect: Cherry/See/Reames Architects, LLP
Electrical Engineer: The Response Group
LEED Consultant: Environmental Dynamics, Inc.
M&P Engineer: Harmeyer Nellos Engineering
Structural Engineer: Desert Eagle Engineering
Project Size: 8,355 sf

Photographs Courtesy of: Kirk Gittings

ABOUT CHAPTER

The USGBC - NM Chapter is a local non-profit with a mission: to transform our built environment through education, collaboration and outreach, to promote environmentally responsible practices that are economically and socially beneficial to the community.



www.usgbcnm.org
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