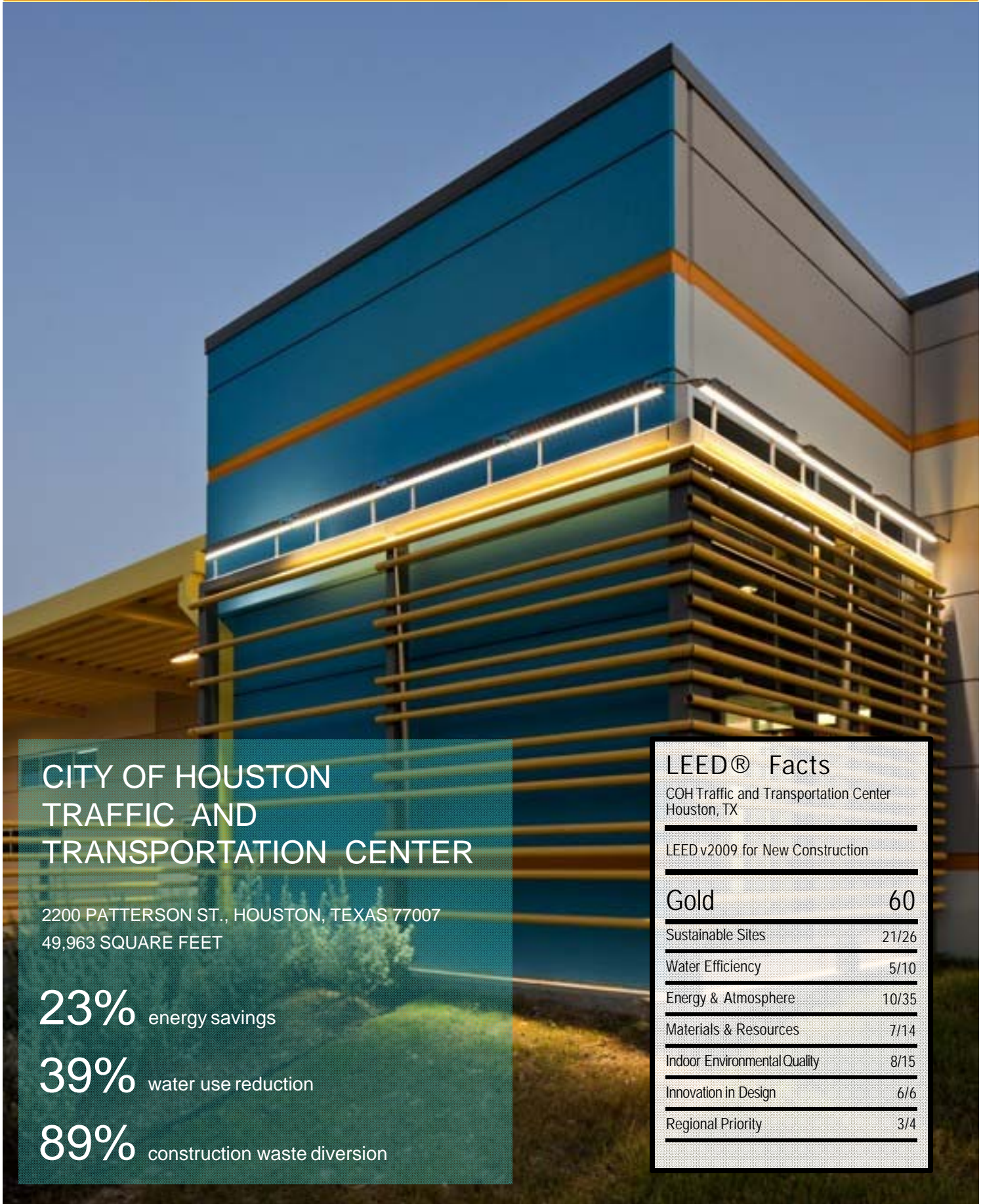




GREEN BUILDING TOURS

November 28, 2016



CITY OF HOUSTON TRAFFIC AND TRANSPORTATION CENTER

2200 PATTERSON ST., HOUSTON, TEXAS 77007
49,963 SQUARE FEET

23% energy savings

39% water use reduction

89% construction waste diversion

LEED® Facts

COH Traffic and Transportation Center
Houston, TX

LEED v2009 for New Construction

Gold	60
Sustainable Sites	21/26
Water Efficiency	5/10
Energy & Atmosphere	10/35
Materials & Resources	7/14
Indoor Environmental Quality	8/15
Innovation in Design	6/6
Regional Priority	3/4

PROJECT PROFILE

CITY OF HOUSTON TRAFFIC AND TRANSPORTATION CENTER

City Green Lights LEED Gold for Traffic and Transportation

PROJECT BACKGROUND

The new Traffic and Transportation Center is designed to minimize negative environmental impacts and ensure staff can perform to their fullest potential. With goals of increasing energy efficiency, reducing water use, and ensuring a healthy and productive indoor environment, the design focused on sustainability as a fundamental driving principle.

SUSTAINABLE SITES (21/26)

The site is located within a 1/2-mile distance of more than 10 basic services and multiple mass transportation lines, encouraging a walkable community that reduces reliance on automobile transportation. One-hundred percent of the site's stormwater runoff is treated before being discharged into the local stormwater infrastructure.

WATER EFFICIENCY (5/10)

Low-flow plumbing fixtures are used throughout the project, including low-flow faucets, urinals, toilets, and showers. Overall, the building is estimated to reduce indoor potable water use by 39% compared to a conventional building. The majority of the landscape area is unirrigated to reduce potable water used for irrigation by more than 86%.

ENERGY & ATMOSPHERE (10/35)

The project used LED fixtures throughout, helping to reduce energy costs by 23% when compared to a conventional building and helping to minimize the presence of mercury, a persistent, bioaccumulative, and toxic metal, in the built environment. All HVAC and fire-suppression systems in the project operate without CFC, HCFC, or Halon-based refrigerants, preventing the release of ozone-depleting substances.

MATERIALS & RESOURCES (7/14)

Eighty-nine percent of construction waste for the project was recycled, salvaged, or reused. Preference was given to local materials and those with high recycled content in order to reduce the impacts associated with the extraction and processing of virgin materials.

INDOOR ENVIRONMENTAL QUALITY (8/15)

Construction followed stringent guidelines to minimize the introduction of harmful air contaminants into the space, including the use of low-emitting paints, adhesives, sealants, flooring, and composite woods. In order to ensure a productive and healthy indoor environment, skylights and solartubes were installed to ensure high levels of natural light through the building.

INNOVATION IN DESIGN (6/6)

A green building education program provides information the sustainable aspects of the project. In addition, the project utilizes environmentally friendly cleaning and maintenance products. Finally, an innovative and comprehensive solid waste management plan was implemented by facilities staff to responsibly manage the facility's waste.

REGIONAL BONUS (3/4)

The project received multiple bonus points for addressing environmental issues especially relevant to Southeast Texas, including storm water quality management and construction waste management.



Owner/Developer: [City of Houston](#)
Architect: [Kirksey Architecture](#)
Contractor: [Pepper Lawson Construction Group](#)
MEP: [Infrastructure Associates](#)
Commissioning: [Telios](#)

Square Footage: [49,963 square feet](#)
Project Completion: [2014](#)

ABOUT LEED

The LEED® Green Building Rating System™ is the national benchmark for the design, construction, and operations of high-performance green buildings.

Kirksey
ARCHITECTURE