Greening San Leandro’s Transit Corridor: East 14th Street South Area

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Green Building Standards

- Build it Green – GreenPoint Rated (GPR)
- US Green Building Council – Leadership in Energy and Environmental Design (LEED)
- Collaborative for High Performance Schools (CHPS)
Bus Rapid Transit (BRT)

Transit Way

Traffic signal priority

Wider station spacing (average 1/3 mile)

BRT Slides courtesy of Cambridge Associates
BRT Stations

Ticket machines

Real-time arrival signs

Shelter, lighting, security

Level boarding

BRT Slides courtesy of Cambridge Associates
East Bay BRT Project

AC Transit 1R line: 22,000 riders per day

Legend
- Route of Proposed BRT System
- Freeway
- Major Streets
- BART Station

BRT Slides courtesy of Cambridge Associates
San Leandro BRT

Key
- **BRT Route**
- **Bus-Only Lane**
- **BRT Station**

BRT Slides courtesy of Cambridge Associates
South San Leandro Proposed

- Consistent with South Area Median Project
- Preserves all existing and planned crosswalks
- Some local cross streets converted to right-in, right-out only
East 14th St South Area: Estabrook St
Estabrook Senior Housing
Interior Courtyard and Roof Terrace
Estabrook’s GreenPoint Rating

146 out of 275 points; 50 is minimum

Energy-Efficiency: Wall Insulation; Efficient Heating Systems; and Glazing; Energy Star ® Light Fixtures, Appliances, and Fans; 21% more Efficient than T-24

Site Design/Community: Urban Infill Site; 100% Affordable Housing; High-Density; Minimal Parking

Landscaping: Native and Drought - Tolerant Species; High-Efficiency Irrigation; Outdoor Gathering Spaces

Waste: 65% Construction Waste Diverted from Landfill
Estabrooks’s GreenPoint Rating

**Sustainable materials:** Recycled (Fly-Ash) Concrete; Engineered Lumber; No-formaldehyde Insulation and Lumber; 40-year Roof; Linoleum Flooring; Recycled Carpet; Recycled Lumber for Outdoor Furniture; Pre-Cut Lumber

**Indoor Air Quality:** Low-VOC Paints and Adhesives; Ventilation

**Water Efficiency:** Dual-flush Toilets; Low-Flow Fixtures

**Renewable Energy:** Photovoltaic and Solar Hot Water on Roof.
East 14\textsuperscript{th} St South Area: 136\textsuperscript{th} Avenue

San Leandro High School
9\textsuperscript{th} Grade Campus

San Leandro Senior Center

BRT Slides courtesy of Cambridge Associates
San Leandro Senior Center
San Leandro Senior Center

view from E.14th

09.20.2007
San Leandro Senior Center

View of main entry

09.20.2007
Senior Center’s LEED Rating

Gold, with 41 out of 69 points; 26 is minimum

**Sustainable Sites**: Downtown Infill Site; Bicycle Racks /Shower; Carpool/Hybrid /Para-Transit Spaces; Bio-Swales ; Reduced Heat Island Effect (High-Emissivity Roof for over 75% of Roof Surface)

**Water Efficiency**: High Efficiency Irrigation Controls; Efficient Plumbing Fixtures and Sensors; 30% less Water Usage

**Energy & Atmosphere**: Commissioning; Enhanced Refrigerant Management; High R-value Building Envelope; Thermally Broken Insulated Glazing; High Efficiency Mechanical System; CO2 Sensors; Energy Efficiency over 28% of Ashrae/IESNA 2004
Senior Center’s Green Features

**Materials and Resources**: Divert 75% of Construction Waste; High Recycled Content; Low VOCs; FSC-Certified Wood; Local/Regional Materials

**Indoor Environmental Quality**: Construction IAQ Management Plan; Integrated Indoor Chemical and Pollutant Source Control; Individual Thermostats; Occupancy Sensors; Daylight Harvesting Photo Cells; N/SOrientation to Maximize Daylight, Exterior Views

**Innovation in Design**: Indoor and Outdoor Educational Exhibits; Green Housekeeping; Bay-Friendly Landscaping
San Leandro High School Ninth Grade Campus
San Leandro High School
Ninth Grade Campus
San Leandro High School
Ninth Grade Campus
Ninth Grade Campus’ CHPS Rating

39 out of 85 points; 32 is minimum

**Sustainable Sites:** Minimal Parking; Reduced Building Footprint; Bio-Swales; Light-Colored (High Albedo) Concrete; Cool Roof; Drought-Resistant Plants

**Water Efficiency:** Irrigation Controls; Low Flow Plumbing Fixtures and Automatic Sensors; 40% less Water Usage

**Energy & Atmosphere:** Efficient Fixtures; Automatic Sensors, Daylighting; 24% better than T-24

**Interiors:** Recycled/Rapidly Renewable Materials; Certified Wood; Low-Emitting Materials; Air Filtration for Indoor Air Quality
Green Building Resources


Build It Green/Green Point Rated: www.BuildItGreen.org

Collaborative for High Performance Schools (CHPS) www.chps.net

California Energy Commission (CEC) www.energy.ca.gov

Building Standards Commission (CBSC) www.bsc.ca.gov

California Building Officials (CALBO) www.calbo.org