

GENERAL INFORMATION

Location:.....33942 Seventh Street
Union City CA

Parcel Size35,760 (0.82 acres)

Building TypeEmergency Services

Size10,446 square feet

Cost.....\$5,036,000

Completion DateJune 24, 2009

Owner:.....City of Union City

ArchitectGLASS Architects
Santa Rosa, CA
www.glassarchitects.com

General Contractor.....John Plane Construction
Brisbane CA
www.johnplane.com

Construction Manager...Anchor Engineering
Lafayette, CA
www.anchorcm.com

SUSTAINABLE SITE

SiteRedeveloped a previous Brownfield site

StormwaterTreated onsite before entering public storm sewer system

Reduced Heat Island.....In order to reduce heat island effect the project used concrete paving in place of black asphalt and reflective roofing material.

Landscaping.....Utilized Bay Friendly Landscaping practices.

WATER EFFICIENCY

IrrigationThrough the use of drought tolerant native plants and no turn the project reduced the quantity of potable irrigation water by 58% of baseline.

Domestic Water.....Using low flow showers, toilets and faucets the project is under 35% of the baseline water use.

ENERGY

- Energy PerformanceExceeded Baseline by 32%
- Building EnvelopeInsulation: R-21 Walls, R38 Ceiling
Operable clad wood windows with argon filled low-E2 glass
- HVAC systemsWater source heat pumps with cooling tower
- Renewable Energy.....27 KW roof mounted photovoltaic system
- Lighting.....Fluorescent with T8 lamps
Occupancy Sensors
Watt Stopper Lighting Panel
- Daylighting.....75% of occupied spaces are provided with natural daylight.
Hallways, locker rooms and apparatus bay provided with solatube skylights.
- Commissioning.....Used enhanced commissioning practices to verify energy consuming systems perform as they were designed.

SUSTAINBLE BUILDING PRACTICES

- Waste Diversion75% of construction waste was recycled.
- Recycled Content.....20% of the materials used on the project are recycled products.
- Regional Material29% of the material used on the project come form local sources.
- Indoor Air QualityLow emitting adhesives, sealants, paints, and carpets were used.