

Uses BES Simplified Approach for Pollution Reduction and Flow Control for Stormwater Disposal

- Stormwater Planters
- Landscape Filtration (bio-swales).

Heat Island Reduction – Roof

- Flat roof will be made of light reflective (white) thermoplastic.

Landscaping

- Water efficient landscaping, drip irrigation.
- Native plants.

Energy & Atmosphere

- 3<sup>rd</sup> Party Building Commissioning
- DOE2 Energy Model from PGE
- PGE Earth Advantage Program
- Model shows almost 20% energy savings better than code.
  - Dimmable ballast tied to photocells for daylighting controls in meeting room, dayroom, and apparatus bay.
  - Occupancy sensors in meeting room, day room, and apparatus bay.
  - All windows and frames with thermal breaks and Low-E double pane glass.
  - Efficient envelope insulation throughout.
  - Use of “packaged” hi-efficiency DX cooling systems.
  - Use of “economizer cycle” in all three air handlers.
  - Electrically controlled shades can be lowered to reduce solar heat gain in meeting room and reduce glare through the windows.
  - Temperature control in meeting room tied to occupancy sensor. Automatically lowers demand for hot or cold when room is not occupied.
- Solar-powered light standards for parking lot.
- Conventional skylights and Solar-tube skylights to bring light into the interior living spaces.
- Highly efficient 3-zone HVAC system with economizer cycles.
- Use of Structural Insulated Panels in roof frame to reduce amount of wood and increase insulation factor. 10” of insulation inside wood frame.

Indoor Air Quality

- Low-toxicity building products: paints, sealant, adhesives, solvents, carpets.
- Operable Windows.

Construction Waste Management

- Waste management plan to discussed and distributed with contractors. 90% recycle.
- Recycled content materials: Gypsum board, concrete, carpet, steel, insulation, ceiling tile, steel roofing, rubber flooring in exercise room.
- Rapidly renewable products: Wheatboard used in cabinet cores.
- Certified wood used in framing.

Site Work

- All debris from site was recycled.
- All engineered fill in site work was from 100% recycled concrete.
- 7% fly-ash used in concrete foundations and retaining walls.