

SUSTAINABLE STRATEGIES

DAYLIGHT AND VIEWS Strategic placement of glass in public spaces will filter direct sunlight and take advantage of daylight and views.

SUSTAINABLE LANDSCAPE A palette of local plant species minimizes the need for maintenance, irrigation, or mowing, and creates a natural habitat for local wildlife.

MATERIALS REUSE Local, renewable, and recycled building materials are used. Recycled content is found in all parts of the structural system and construction of the interiors.

HIGH-EFFICIENCY FIXTURES High-efficiency plumbing fixtures conserve water.

HIGH-PERFORMANCE BUILDING ENVELOPE The building orientation, ventilation, and envelope design work together to balance heat gain.

ENHANCED VENTILATION Chilled beams, displacement ventilation, and radiant piping were used in order to provide specific, energy-efficient solutions tailored to each space.

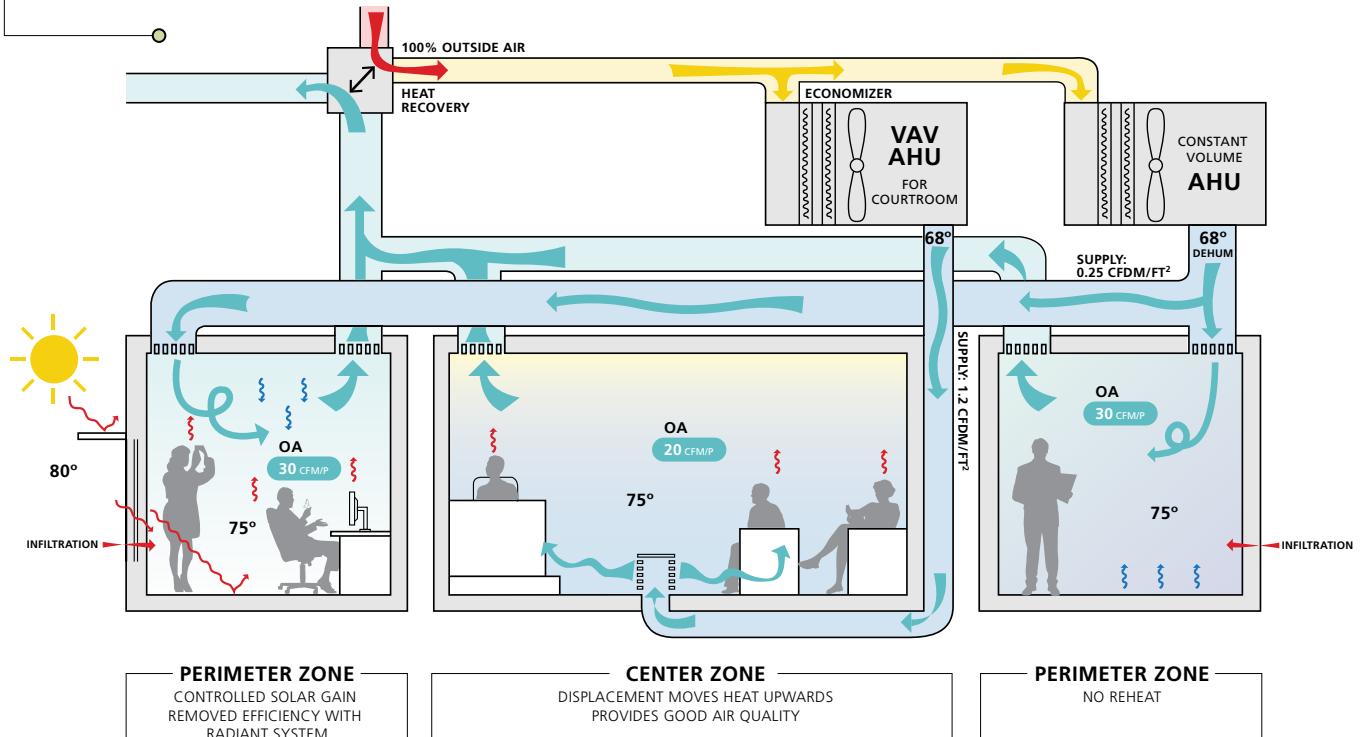
SUSTAINABLY SOURCED MATERIALS All concrete formwork and interior wood finishes use wood certified by the Forest Stewardship Council. This ensures the sustainable logging of trees and the use of plantation grown wood.

GREEN ROOFS Roof gardens mitigate the building temperature, increase the lifespan of the roof, create new wildlife habitat, and mitigate stormwater runoff volume.

STORMWATER DESIGN Bioswales, vegetated strips, and stormwater planters will treat runoff and remove total suspended solids.

LIGHT POLLUTION REDUCTION Efficient design of site lighting reduces night sky light pollution and limits light spill over to adjacent sites.

CONSTRUCTION WASTE MANAGEMENT Noise, dust, and runoff pollution was minimized during construction, while implementing an extensive plan for construction waste management.



BUILDING PERFORMANCE

The Family Justice Center Courthouse integrates high-performance design strategies with the goal of achieving the U.S. Green Building Council's LEED-Silver certification. Innovative stormwater management solutions, native landscaping, and the use of high-efficiency plumbing fixtures will reduce the use of potable water by 35%.

HVAC systems throughout the building have been selected and designed to maximize energy performance and the thermal comfort of occupants. Chilled beams provide radiant cooling in office spaces, radiant floor slabs provide both heating and cooling in the public waiting areas, and a displacement ventilation system serves the courtrooms.

Lighting systems throughout the facility have been designed to reduce the connected lighting load by 15% from a code compliant design. Energy consumption has been further reduced through the integration of daylight and occupancy controls. Occupancy sensors ensure that lights are shut off when they are not needed, while daylight sensors detect available light and reduce the lighting power to maintain maximum lighting levels.

VENTILATION SYSTEMS // All ventilation systems provide 100% outside air. This results in a space which has exceptional air quality and low CO2 levels compared with recirculating systems. In courtrooms displacement ventilation will introduce supply air at a low-level and exhaust at a high-level to further improve air quality in the breathing zone.