Chilled water is provided from the South Quad Chilled Water Plant creating opportunities for:

- Economies of scale, allowing for lower operating costs
- Less equipment to service and maintain
- Lower up front cost of a single chiller plant when compared to multiple chiller plants.

Housing offices are located to take advantage of direct and borrowed sunlight. Light switching systems in public spaces, students rooms and outdoor lighting areas save energy through intelligent and automated controls.

### Design to Earn the ENERGY STAR

The existing building envelope was reused and brought above code requirements through the use of current construction techniques and materials, including thermal imaging. Thermal imaging was used to detect areas of heat loss in the existing building envelope. These areas were then targeted and a new layer of continuous insulation was introduced to increase the thermal performance of the exterior wall system. Original 1920’s single pane windows were replaced with energy efficient and historically appropriate insulated windows, thereby cutting down on drafts and solar heat gain.

### South Quad Chilled Water Plant

Chilled water is provided from the South Quad Chilled Water Plant creating opportunities for:

- Economies of scale, allowing for lower operating costs
- Less equipment to service and maintain
- Lower up front cost of a single chiller plant when compared to multiple chiller plants.

### West Quadrangle-Cambridge House Residence Hall

**Regional Chiller Plant**

Chilled water is provided from the South Quad Chilled Water Plant creating opportunities for:

- Economies of scale, allowing for lower operating costs
- Less equipment to service and maintain
- Lower up front cost of a single chiller plant when compared to multiple chiller plants.

**Recycled Materials**

Courtyard benches are made from recycled milk jugs. Select carpeting in the housing office area is made from recycled fishing nets.

**Improved Building Envelope**

The existing building envelope was reused and brought above code requirements through the use of current construction techniques and materials, including thermal imaging. Thermal imaging was used to detect areas of heat loss in the existing building envelope. These areas were then targeted and a new layer of continuous insulation was introduced to increase the thermal performance of the exterior wall system. Original 1920’s single pane windows were replaced with energy efficient and historically appropriate insulated windows, thereby cutting down on drafts and solar heat gain.

**Reuse of Building Elements**

The Cambridge House canopy was given a new home on the front facade of West Quad, diverting construction waste while maintaining the buildings historic narrative. The renovation and reuse of West Quad has not only extended the life of the building but has also deepened its legacy.

**Recycled Materials**

Courtyard benches are made from recycled milk jugs. Select carpeting in the housing office area is made from recycled fishing nets.

**3,758,000 Gallons of Water Savings**

Water savings are due to the use of high efficiency plumbing fixtures and energy star appliances.

**Sustainable Landscape**

Heritage trees were preserved and new trees incorporated to enhance the landscape. The site was minimally impacted to limit the amount of storm water run off.

**Daylight and Lighting Improvements**

Housing offices are located to take advantage of direct and borrowed sunlight. Light switching systems in public spaces, students rooms and outdoor lighting areas save energy through intelligent and automated controls.

**Improve Building Envelope**

The existing building envelope was reused and brought above code requirements through the use of current construction techniques and materials, including thermal imaging. Thermal imaging was used to detect areas of heat loss in the existing building envelope. These areas were then targeted and a new layer of continuous insulation was introduced to increase the thermal performance of the exterior wall system. Original 1920’s single pane windows were replaced with energy efficient and historically appropriate insulated windows, thereby cutting down on drafts and solar heat gain.

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