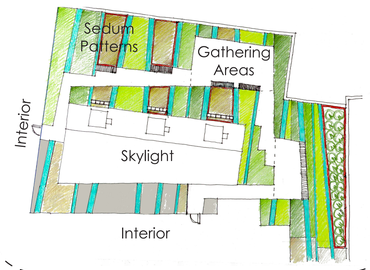
SUSTAINABILITY + Lakeland COMMUNITY COLLEGE

HEALTH TECH BUILDING EXPANSION & RENOVATION
Currently Under Construction & Opening January 2018

Anticipating **LEED GOLD** certification

GREEN ROOF



MATERIALS

Using materials with **RECYCLED CONTENT**.

Using **REGIONAL MATERIALS** manufactured within 500 miles of site.

Utilizing **LOW VOC** paints and finishes

Using **FSC CERTIFIED** wood products

Selecting products with a **SUSTAINABLE MANUFACTURING** process.

Installing **TRIPLE PANE CURTAIN WALL** Windows.

Repurposing of **ONSITE MATERIALS** such as wood for site elements.

ENERGY EFFICIENCY

Anticipating a Project Performance of:
- **42% BETTER** than ASHRAE 90.1-2007 Baseline.
- **SITE EUI** of **24 kBtu/yr-sf** verses existing campus site EUI of 70 kBtu/yr-sf. A **66% DECREASE**.
- **SOURCE EUI** of **70 kBtu/yr-sf** verses existing campus source EUI of 152. A **54% DECREASE**.
- **ZERO ENERGY-CAPABLE** due to selected system and low site EUI.

Anticipating an **EMISSIONS** reduction of **714 MTCO2e PER YEAR**.

Annual reductions **EQUIVALENT** to:
- CO2 Emissions of **149 PASSENGER VEHICLES.**
- Electric use of **107 HOMES**
- Total energy use of **37 HOMES**.
- Carbon sequestered annually by **585 ACRES OF U.S. FORESTS**.
- **3.0 RAILCARS** worth of **COAL**.
- Emissions avoided by recycling **267 TONS OF WASTE**

Anticipating a **LIGHTING POWER DENSITY (LPD)** of **0.7 WATTS/SF.** This is **42% MORE EFFICIENT** than code. Current code adapted by Ohio allows for 1.2 Watts/SF for university building types.

Installing **LED LUMINARIES** throughout entire project.

Incorporating **ENERGY EFFICIENT DESIGN** such as variable refrigerant flow systems, dedicated outside air systems, geothermal heat exchange, light dimming, vacancy/occupancy sensors, and daylight harvesting.

Incorporating approx. **19 MILES** of geothermal piping underground for **GEOTHERMAL HEAT EXCHANGE**.

Using **PLUG LOAD CONTROLS** that allow receptacles to be controlled on/off based on room occupancy. This reduces energy waste due to 'vampire' loads of electric devices left on when people leave a room.

SUSTAINABLE SITE

Incorporating **GREEN INFRASTRUCTURE DEMONSTRATIONS** into the Master Plan such as pervious pavement, raingardens, and stormwater basins.

Utilizing **SUSTAINABLE MAINTENANCE PRACTICES** such as Integrated Pest Management fuel-efficient and low emitting equipment.

Conserving **95%** of campus existing forest and natural features.

Striving for a **SMOKE FREE** campus.

Planting with **NATIVE PLANT** palette.

Using **DARK SKY** site lighting.

Lakeland SUSTAINABILITY PAST & PRESENT

ENERGY SAVINGS
LCC 2008 - **130.7 kBtu/yr-sf**
LCC 2016 - **69.8 kBtu/yr-sf**

WATER SAVINGS
46% water use reduction.

RECYCLING PROGRAM
47% of total waste is being diverted from the landfill.

COMPOSTING of organic materials and cardboard from food and vending.

GREEN GROUP
Student organization geared toward campus sustainability.

AWARDS
2012 LEED SILVER
New Construction
Holden University Center

2014 LEED SILVER
Commercial Interiors
C Building Renovation

2010 BELLWETHER AWARD
Planning, Governance & Finance for Energy Efficiency Program

2012 CRAIN'S CLEVELAND BUSINESS EMERALD AWARD
Champions of Sustainable Business Strategies

2011-2014 ASSHE STAR REPORTER AWARD