

Suite 200B
30 Monument Square
Concord, MA 01742
978.371.7500

280 Elm Street
South Dartmouth
MA 02748
508.999.0440

www.dskap.com

Concord Academy – West Campus
166 Main Street (Parcel #1706)
Concord, MA 01742

Date: November 28, 2022

Sustainability Initiatives

Note 1: **Bold** items are primary or key goals

Note 2: Items below pertain primarily only to the Centennial Arts Center, full site and landscape, unless otherwise noted below (i.e. Academy Village Houses).

1. Energy and Atmosphere
 - a. **Target Energy Use Index (EUI) = 35** (Passive Design. i.e. through high building envelope and system performance). Min 25% reduction from baseline
 - b. REC (renewable energy credits) or PPA (power purchase agreement)
 - c. **Fossil Fuel Free** (including Academy Village houses)
 - d. **On-site Renewables - PV of 50kW**
 - e. LED lighting and occupant sensors
 - f. Enhanced Commissioning
2. Carbon (Embodied and Operational)
 - a. **Reduce embodied carbon by 10%-20%**
 - b. LPD (Lighting Power Density) target of 30%-40%
 - c. Occupant sensors
3. Water (Indoor and Outdoor)
 - a. 30%-35% reduction in indoor water use
 - b. Indoor sub-metering
 - c. No permanent irrigation (only during establishment period)
 - d. Stormwater Best Management Practice (BMP)
4. Site and Landscape
 - a. **New pollinator meadow at existing athletic field**
 - b. Reuse of existing buildings; 220 and Ides (detached houses)
 - c. **Native/adaptive plantings to restore ecology and promote biodiversity**
 - d. Exterior light fixtures to meet dark sky requirements
 - e. **Resilient Design – Mitigation plan for floodplain impact**
 - f. Electrical Vehicle (EV) charging station.
 - g. Permeable pavers
 - h. Bioretention rain gardens
 - i. Underground stormwater retention system for stormwater control
 - j. Use SRI LEED requirement on flat roofs

5. Materials, Health & Well-being
 - a. Comply with ASHRAE 62
 - b. Low-emitting materials and adhesives (including Academy Village houses)
 - c. Biophilic design in selected areas
 - d. Controllability of systems – Thermal (including Academy Village houses)
 - e. Controllability of systems – Lighting (including Academy Village houses)
 - f. Construction waste recycle (including Academy Village Houses)
 - g. IAQ testing or flush out
 - h. Recycled content

6. Equity and Inclusion
 - a. Full ADA compliance
 - b. Connection with Main Street

7. Leadership and Engagement
 - a. Possible using the building and sustainability initiatives as a teaching tool.
 - b. Possible Zero Carbon Certification

Best,



David P. Chase
