



**City Hall Annex Renovation
City of Cambridge
Cambridge, Massachusetts**

This \$11.6 million renovation and restoration is the Commonwealth's first LEED certified municipal building and at the time of its re-opening in 2004, the oldest building ever to achieve a certified LEED rating.

Built in 1871, The City Hall Annex earned LEED-Gold with a three-pronged strategy, high-energy efficiency, careful resource use, including preserving the historic façade and limiting construction waste and aiming for superior indoor air quality. Specific green strategies included installing low-e operable windows, daylight-dimming lighting, ground-source heat pumps and a roof-top photovoltaic array.

Managing the sustainable design process on this project before he founded The Green Engineer, Christopher Schaffner, PE, was responsible for:

- Mechanical design and energy modeling; (the HVAC system combines water-to-water ground source heat pumps with a VAV air distribution system while meeting rooms use displacement ventilation with heat recovery on air systems);
- Conducting feasibility study of renewable energy systems to help obtain state funding for the 26kW photo-voltaic array;
- LEED coaching for the design and construction team.



Client: City of Cambridge
Architect: HKT Architects, Inc.
MEP: ARUP
Contractor: Consigli Construction, Co.
LEED-NC v2: Certified Gold