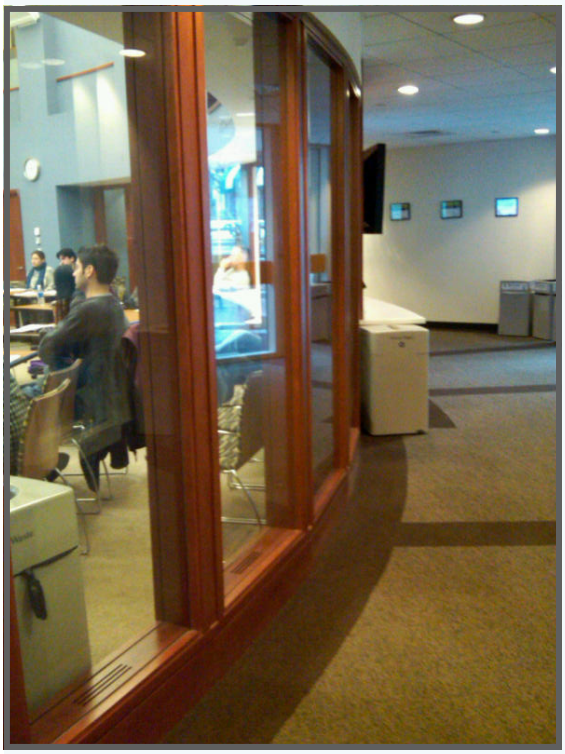
HARVARD Kennedy School
JOHN F. KENNEDY SCHOOL OF GOVERNMENT

GREEN is the new Crimson

HARVARD KENNEDY SCHOOL **LEED-CI**
v2.0

HAUSER CENTER RENOVATION

The Hauser Center for Nonprofit Organizations at Harvard University is a university-wide center for the study of nonprofit organizations and civil society. The Hauser Center seeks to expand understanding and accelerate critical thinking about the leadership of nonprofit and non-governmental organizations through the key goals of research, education, and practice. The department previously resided in an off-campus building adjacent to the Kennedy School. As the Hauser Center has grown, it has become critical for them to move onto campus where more casual interaction with students can occur.



Hauser Town Hall
Photo: OFS, 2010

The Hauser Center moved into the first two levels of Belfer Hall in the fall of 2009. Built in the early 1980s, the building houses both classrooms and offices, and was designed to encourage student and administration interaction. The Hauser Center will continue to encourage this interaction while allowing areas for private interdepartmental interaction.

As part of Harvard University's sustainability initiatives -- aimed at saving resources and reducing the University's environmental impact -- Harvard Kennedy School intends the design and implementation of the Hauser Center's new offices to achieve at least LEED-CI Silver certification.

The Hauser Center believes that the work environment does affect the workers' health and wellbeing. Because of this the Center looked to the design team for a space well-lit by natural light and products with little to no VOCs. To reduce waste the existing perimeter offices were reused when possible and glazing was added to their fronts to allow light to reach staff members not directly adjacent to the exterior windows.

PROJECT HIGHLIGHTS

LEED® Facts

Hauser Center
Harvard Kennedy School
2009 Renovation

Location……Cambridge, Massachusetts
Rating System……..Commercial Interiors v2.0
Certification Achieved……Silver
Total Points Achieved……31

Sustainable Sites……5/7
Water Efficiency……0/2
Energy and Atmosphere……5/14
Materials and Resources……6/14
Indoor Environmental Quality……10/17
Innovation and Design……5/5

90% of on-site generated construction waste was diverted from landfills.

92% of the equipment and appliances are Energy Star® rated

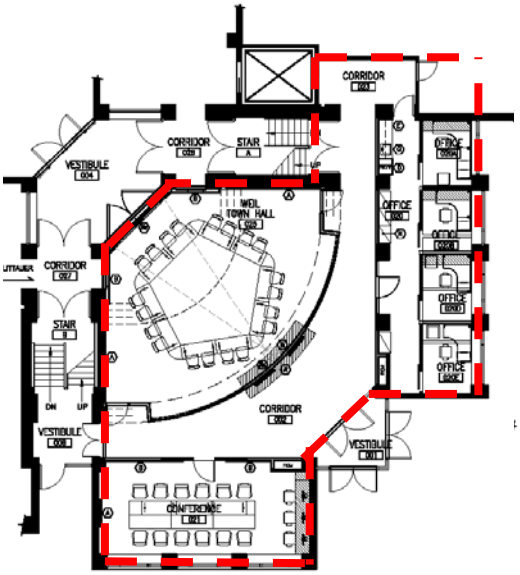
61% of the furniture (by material value) was reused.

100% of composite wood is free of urea formaldehyde

100% Renewable Energy Certificates (RECs) purchased for 100% of the estimated electricity use over 2 years

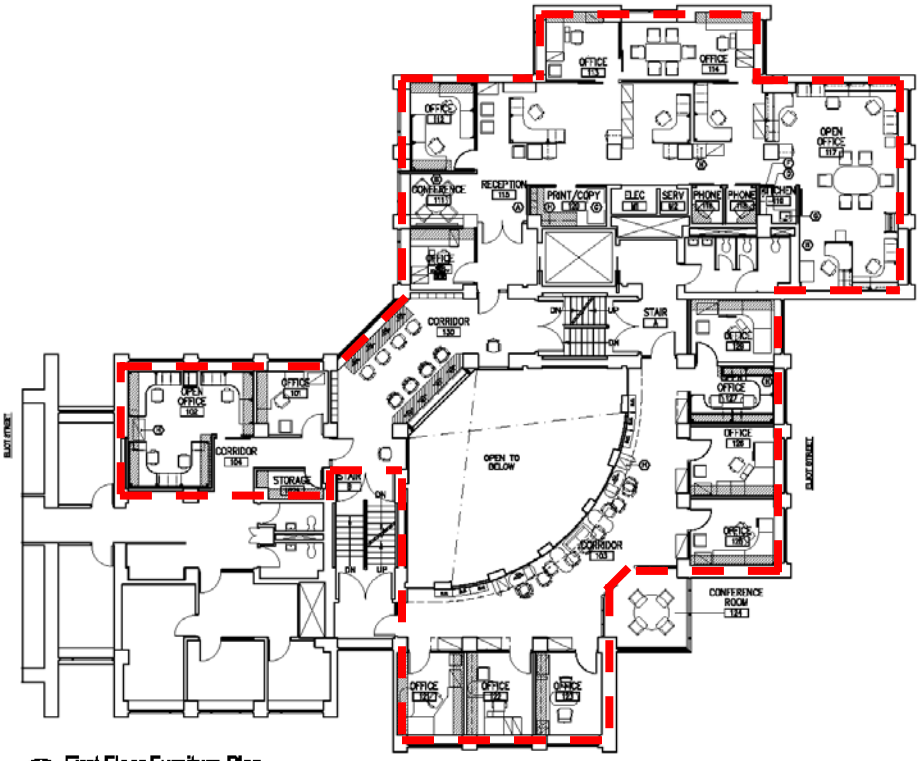
Please print this project profile only if necessary.
If printing is required, please print double sided and recycle when finished. Thank you!

PROJECT OVERVIEW



1 Ground Floor Furniture Plan

LEED Boundary

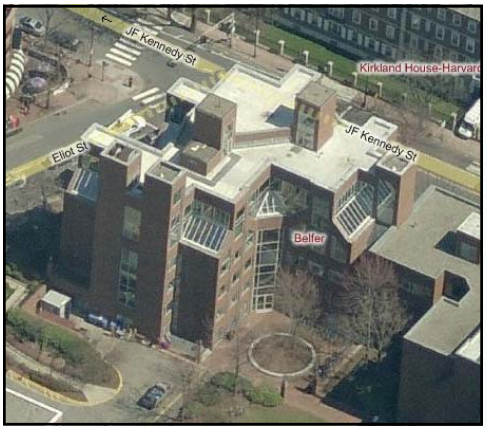


2 First Floor Furniture Plan

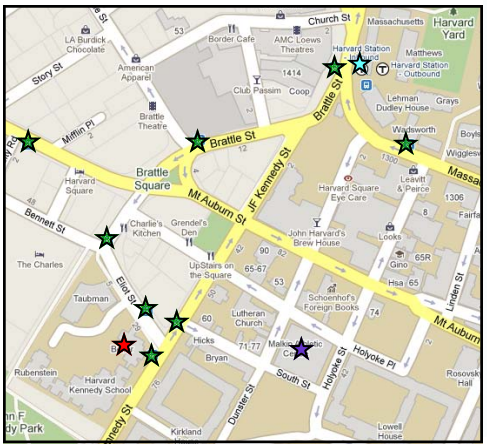
PROJECT TEAM

Owner	Harvard Kennedy School
Project Manager	CSL Consulting
Architect	Baker Design Group
Construction Manager	Wise Construction Corporation
HVAC Engineer	BLW Engineers, Inc.
Commissioning Authority	Michael Williams
Sustainability Consultant	Harvard University Green Building Services

SITE



Harvard University Belfer Hall
79 John F. Kennedy Street, Cambridge, MA



- Belfer Hall
- MBTA Subway Station
- Bus Stop Location
- Malkin Athletic Center

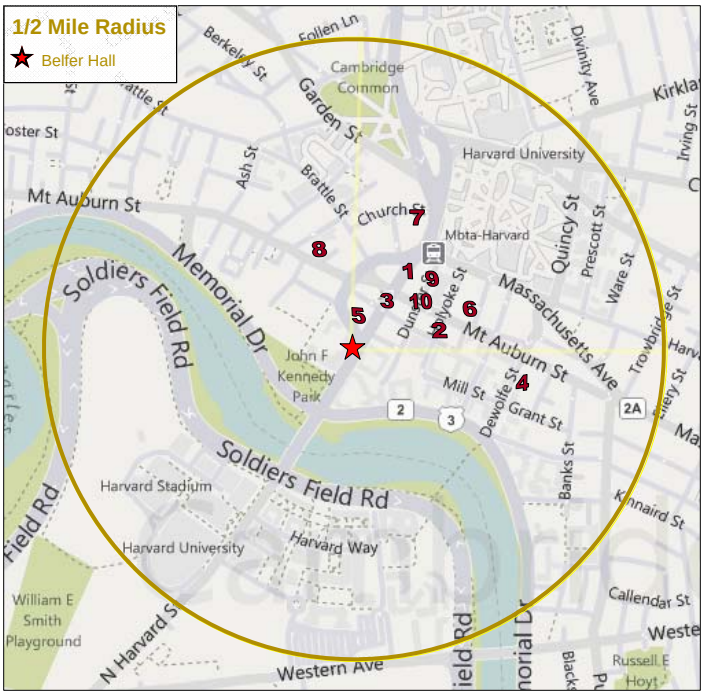
- To encourage alternatives to driving, all occupants of the Hauser Center, as well as Belfer Hall, has access to Harvard's ***CommuterChoice Program***, which provides incentives, such as discounts, for all modes of alternative transportation as well as carpooling and fuel efficient vehicles. The Program is promoted through informational kiosks in building common areas and an extensive website. (www.commuterchoice.harvard.edu)
- The building is located within walking distance to the Harvard Square MBTA stop, several bus lines, and the Harvard University Shuttle.
- Belfer Hall provides bicycle racks with storage for 54 bicycles, while only 13 are required by LEED standards. The nearby Malkin Athletics Center gives occupants access to showers and locker rooms.

Bike Racks at Back Entrance, Hauser Center
Photo: Stacey Rollins. Harvard Office for Sustainability. 2010

COMMUNITY CONNECTIVITY

Belfer Hall is located within 1/2 mile of several basic services. This allows occupants of the Hauser Center to walk and easily access these amenities, which include restaurants, banks, churches, and daycares.

# on Map	Service Type	Service Name	Cambridge MA Street Address
1	Bank	Citizens Bank	6 JFK Street
2	Place of Worship	St. John's Methodist Church	80 Mount Auburn Street
3	Convenience / Grocery	Seven Eleven	40 JFK Street
4	Day Care	Radcliffe Child Care Center	10 Dewolf Street
5	Cleaners	Harvard Square Cleaners	22 Eliot Street
6	Medical	University Health Services	75 Mount Auburn Street
7	Pharmacy	CVS Pharmacy	1426 Massachusetts Ave
8	Post Office	Post Office	125 Mount Auburn Street
9	Restaurant	B. Good	24 Dunster Street
10	Restaurant	Finale	30 Dunster Street



ENERGY EFFICIENCY

The Harvard Kennedy School (HKS) has committed, along with Harvard University as a whole, to reduce greenhouse gas emissions 30% below 2006 levels by 2016, inclusive of growth. Therefore energy efficiency was a main goal of this renovation project.

MECHANICAL SYSTEMS

Occupancy and Temperature Sensors: .

Commissioning: The mechanical and electrical systems have been fully commissioned by a third-party Commissioning Authority, which ensured that all energy-related systems were installed as designed, and operating efficiently prior to occupancy.

ELECTRICAL SYSTEMS

Plug Loads: Energy Star equipment was selected for all equipment in the space, which includes computers and printers.

Light Fixtures: Light Sensors

INDOOR ENVIRONMENTAL QUALITY

HKS is committed to providing a healthy indoor environment for all occupants. The project team was careful to maintain healthy indoor air quality during construction and to also ensure the space is designed to promote healthy indoor air quality during occupancy.

Indoor Air Quality During Construction: The building maintained occupancy throughout construction. Thus, a comprehensive indoor air quality management plan was implemented during construction to maintain healthy indoor air quality. All grills and vents were sealed and a HEPA Filtration unit maintained negative pressure to keep any construction debris from migrating into occupied spaces.

Thermal Comfort Survey:

Only Materials with **Low or No VOC Content**

- **Composite Wood and Laminate Adhesives**
- **Carpet System**
- **Adhesives and Sealants and Paints and Coatings**

Construction IAQ Measures Implemented During Construction

Photos: Harvard Office for Sustainability. 2008

Pathway Interruption:
Isolated work areas

Product Category	Product & Manufacturer	VOC Content (g/l)	VOC Limit (g/l)	Standard
Paints & Coatings	➢			
	➢			
	➢			
Adhesives & Sealants	➢			
	➢			

HVAC Protection:
Duct equipment sealed with filter

Green Housekeeping:

Daylight and Views:

MATERIALS & WASTE

Selecting environmentally preferable materials and minimizing the amount of construction waste sent to landfill was important to the project. The project was able to use a large percentage of salvaged office and classroom furniture from storage areas within the Cabot Chemistry Complex. For the additional materials purchased, the project gave preference to low-emitting materials with recycled content and local manufacturing.

% **of the total material value consists of products salvaged or manufactured locally.**

80% **of the on-site generated construction waste was diverted from the landfill.**

38% **of the total value of materials used in the project consist of materials with recycled content.**

ENVIRONMENTALLY PREFERABLE MATERIALS IN SCHREIBER LAB, NAITO BUILDING

- 1912 Ultima Tegular Ceiling Tile (Armstrong)
  3% pre-consumer, **67%** post-consumer
- Medite II MDF (Sierra Pine)
  100% pre-consumer
- Ultra Touch Natural Cotton Fiber Building Insulation (John Manville): **85%** post-consumer
- Drywall (USG): **95%** pre-consumer

Examples of regional materials used in project:

Product Name	Manufacturer	Distance between project & Manufacturer (mi)
Millwork	New England Lab	13
Fiberglass Insulation	Guardian Fiberglass Inc.	419
Drywall	USG	253

Prof. Schreiber's Office
Photo: Ellenzweig. 2009

ADDITIONAL RESOURCES

- Harvard FAS, Dept. of Chemistry and Chemical Biology: http://www.chem.harvard.edu
- Harvard FAS, Green Program: http://green.harvard.edu/fas
- Harvard FAS, Green Labs Program: http://green.harvard.edu/fas/green-labs
- Harvard Green Building Services: http://green.harvard.edu/green-building-services
- Harvard OFS - Green Building Resource: http://green.harvard.edu/theresource