

Sources

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Context

HARVARD WITHIN THE REGION

Produced by Harvard Planning and Real Estate CAD/GIS Services, January 31, 2001. Data provided by the MassGIS. The MASSGIS statewide 1:25,000 land use data layer has 37 land use classifications interpreted from 1:25,000 aerial photography taken in 1971, 1985, and in some areas 1990, 1991, 1992, 1995 or 1997. Photo interpretation and automation were done by the Resource Mapping Project at the University of Massachusetts, Amherst. Further interpretation and simplification of data into the study categories shown was completed by HPRE/GIS.4

CHART

Estimate calculated from Grubb and Ellis data “Metro: Rental Rates” in *Industrial Market Trends* and *Office Market Trends*, pdf files. Retrieved from the World Wide Web 8/13/01.

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HARVARD UNIVERSITY LAND-USE BY DAY

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CAPS Building Data, December 1, 2000.

Categories derived from USECODE field by MDB.

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The Office of Government, Community and Public Affairs. *Harvard in the Community: A Directory of Harvard University Community Service Programs in Boston and Cambridge, 1999-2000* (1999). Cambridge, MA: Harvard University.

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HARVARD LAND-USE BY NIGHT

“Harvard Athletics: Ticket and Facility Info” <http://www.fas.harvard.edu/~athletic/tickets/hours.html>, Retrieved from the World Wide Web 5/21/01.

“Harvard Libraries – Current Hours” <http://lib.harvard.edu/libraries/hours.html> Retrieved from the World Wide Web 5/21/01.

“Harvard University Extension School” <http://extension.dce.harvard.edu> Retrieved from the World Wide Web 5/10/01.

Karen Ogden, Harvard Extension School. “Buildings in Use by DCE” email 5/10/01.

BUILDING HEIGHTS

Building heights are expressed in feet and are generally determined by the number of stories as recorded on Sanborn maps (City of Boston, City of Cambridge, Volume 1 and 2, 2000), multiplied by 12' per story.

In some cases, the height of Harvard buildings was approximated according to data found in the 1975 Harvard University Planning Office publication “Long Range Planning Inventory, Policies and Recommendations,” page 100.

RESOURCES AVAILABLE TO HARVARD RESIDENTS AND TO THE COMMUNITY

Boston, Cambridge and Somerville Assessor’s data

Harvard News Office web page, at <http://www.hno.harvard.edu/community>, Retrieved from the World Wide Web.

HPRE GIS basemap

HU Professor Pathfinder map

History

GENERAL NOTE

Harvard-owned buildings highlighted in red on all historical maps in the series (except 1692) were identified according to the year of acquisition field as recorded by the HPRE CAPS building database and are drawn using year 2001 building footprint configurations as captured in HPRE’s GIS basemap. Supplemental data regarding the construction and/or acquisition year of buildings and the footprints of any buildings demolished or sold prior to 2001 were derived from Bainbridge Bunting and other sources as described below.

MAP HARVARD IN 1642

Norris, Albert P. (1933). *Home Sites Section of Newtowne 1635, Map of Cambridge- 1642, Based upon the Proprietors Records showing individual holdings of the first inhabitants*. Pusey Map Library. (Base map Source)

MAP HARVARD IN 1777

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MAP HARVARD IN 1854

Dix, Geo. L. (1854). *Map of the City of Cambridge*. Boston. Pusey Map Library. (Base map Source)
Bunting, Bainbridge and Robert H. Nylander (1973). *Survey of Architectural History in Cambridge, Report Four: Old Cambridge*. Cambridge: MIT Press. (Transit Information Source)

MAP HARVARD IN 1909

Cambridge Historical Commission, *1900 Middlesex County Atlas*, Plate 5-10. Boston, Mass., Sanborn, 1898. [Digital Information] (Base map source)
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MAP HARVARD IN 1950

Boston, Mass, Vol.6, Sanborn, 1950. (Base map source)
Cambridge, Mass., Vol. 11, Sanborn, 1950. (Base map source)
Bunting, Bainbridge and Robert H. Nylander (1973). *Survey of Architectural History in Cambridge, Report Four: Old Cambridge*. Cambridge: MIT Press. (Transit Information Source)

MAP HARVARD IN 1975

Boston, Mass, Sanborn, 1964. [Digital Information] (Base map source)
Cambridge, Mass., Vol. 1. Sanborn, 1974. [Digital Information] (Base map source)

Public transportation Map: Cambridge & Allston. Harvard University Planning Office (1975). "Long Range Plan Harvard University and Radcliffe College." p.41 (Transit Information Source)

MAP HARVARD IN 2001

HPRE Basemap, 2001 originally compiled from 1992 and 1998 photogrammetry. Updated and expanded in 2000 using City of Cambridge and City of Somerville street blocks and building footprints. The present configuration of Harvard building footprints are continually updated using primary A/E/C source data. (Base map source)

With the exception of bus routes, all transportation features listed were obtained from the Mass GIS website. Bus routes were digitized by the Property Information Unit during the summer of 2000. (Transit Information Source)

TIMELINE

"BAHS Dates" <http://www.bahistory.org/bahdates.html>, Retrieved from the World Wide Web 3/13/01.

"The Harvard Guide" <http://www.news.harvard.edu/guide/lore/lore2.html>, Retrieved from the World Wide Web 8/13/01.

Marchione, William P., *The Bull in the Garden: A History of Allston-Brighton*. Boston, Trustees of the Public Library of the City of Boston, 1986.

HARVARD BUILDING EXPANSION

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CAPS Building Data, December 1, 2001. "Acquisition Year" field simplified by GIS to match historic maps.

"The Harvard Book" <http://hbook.harvard.edu/vltoc25.html>, Retrieved from the World Wide Web 3/9/01.

"Harvard at a Glance 2001" <http://www.news.harvard.edu/glance/>, Retrieved from the World Wide Web 8/14/01.

Housing

NON-HARVARD HOUSING REFERENCES

Graz-Strassgang, Architects: Florian Riegler, Roger Riewe, *Quaderns d'arquitectura I urbanisme 1995*, n. 210, p. 100-105.

Hotel Juan de la Cosa, Spain, Architect: Federico Soriano, *Quaderns d'arquitectura I urbanisme 1992*, n. 194, p. 6-10.

House for Nomads, Architect: Sarah Gansel, *The Berlage Cahier 3: The new private realm*. Studio 93-94, p. 50.

Kop van Zuid (625 dwellings), Holland, Architects: Architecten Cie *Quaderns d'arquitectura I urbanisme 2000*, n. 227, p. 34-39.

Nemausus 1: 114 appartements sociaux a Nimes, Jean Nouvel, Jean-Marc Ibos, *Lieux d'architectures*, Seyssel (France): Champ Vallon, 1986.

Rogers House, Architect: Richard Rogers, *Richard Rogers and partnership: works and projects*, Edited by Richard Burdett, New York, Monacelli Press, 1996.

Zaanstad (253 dwellings), Holland - Architects: Tania Concko, Pierre Gautier, *Quaderns d'arquitectura I urbanisme 2000*, n. 227, p. 50-65.

Landscape

Van Valkenburgh, Michael and Associates (1993). *A Master Plan for the Harvard Yard Landscape*. Unpublished draft: July 1993.

TREES

Data showing trees in Cambridge and North of Western Avenue in Allston are maintained and provided by HMO. Other tree and vegetation data in Allston were obtained from Harvard's photogrammetry in 1998.

Lighting

"Architectural or standard light poles with light fittings and street signs by Vicpole" <http://www.vicpole.com.au/mccar.html>. Retrieved from the World Wide Web 7/6/01.

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"Home of Magniflood, Inc." <http://www.wookieeworks.com/magniflood/country.htm>, Retrieved from the World Wide Web 7/19/01.

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HARVARD UNIVERSITY LIGHTING DISTRIBUTION

Street lighting locations determined by BSC photogrammetry collected in 1992 for Cambridge, the Allston athletic fields, and the HBS campus, and in 1998 for all other Allston areas.

Perception

VIEW SHED ANALYSIS: PRIMARY EXAMPLE

Topographic data compiled using: Somerville and Watertown – USGS Topographic data, Cambridge – City of Cambridge GIS, Boston – Boston Water and Sewer. February 7, 2001.

Precincts

City of Cambridge. “Cambridge Neighborhoods Map” <http://www.ci.cambridge.ma.us/-CDD/commplan/neighplan/pdfmaps/neighcitymap>, Retrieved from the World Wide Web 9/5/01.

Harvard University (2000). *Report on Capital Planning: University-wide Long-range Planning and Faculty Capital Plans.* Cambridge: Harvard University.

Harvard University (2001, May). *FY02 Capital Budget Report.* Cambridge: Harvard University.

Harvard University (2001, December). *Report on Capital Planning.* Cambridge: Harvard University.

Regulations

Boston Demolition Delay (Article 85 of the Boston Zoning Code; March, 1995).

Boston Landmarks Commission Enabling Legislation (Chapter 772 of the Acts of 1975, as amended).

Boston Zoning Code, Article 51: Allston-Brighton Neighborhood District (November, 1991), as amended.

Cambridge Historical Buildings and landmarks (Cambridge Municipal Code, Chapter 2.78).

Cambridge Zoning Ordinance (February, 2001).

Letter Agreement between Harvard University and the Cambridge Historic Commission with regard to Harvard-owned national Register properties (Letters of February 10, 1986 and February 11, 1986).

Massachusetts Historical Commission Act (Massachusetts General Laws, Chapter 9, § 26-27c, as amended by Chapter 254 of the Acts of 1988).

Massachusetts Historic Districts Act (Massachusetts General Laws, Chapter 40C).

Massachusetts General Laws, Chapter 184, § 31-33 (Preservation Easements).

National Historic Preservation Act of 1966, as amended (16 U.S.C. 470).

Protection of Properties Included in the State Register of Historic Places (950 CMR 71.00).

Regulations Implementing Section 106 of the National Historic Preservation Act (36 CFR 800).

Watertown Zoning Ordinance, Articles III, IV, and V (September, 2000).

Zoning Ordinance of the City of Somerville (Fifth Edition, November, 1997).

HISTORIC DISTRICTS

NCD and LHD areas derived from the City of Cambridge website.

HISTORIC LANDMARKS

Buildings over 50 years old as determined by CAPS.

ZONING CONTEXT

Zoning boundaries supplied electronically by the BRA, the City of Cambridge and the City of Somerville. Watertown zoning was digitized from City paper maps. Simplified zoning categories and associated uses represent interpretation made by HPRE.

River

Metropolitan District Commission (2000, June). *Charles River Basin: The Second Century.*

CHAPTER 91 DEVELOPMENT RESTRICTIONS

Historic Map References: Scanned historic maps of the site in 1885, 1896, and 1922 were electronically geolocated through image warping over and against HPRE’s 1999 base map.

Site Placement: Exact placement of the area is difficult to determine on account of historical changes in the geometry of the Charles River. This site area was chosen over other possible layouts as representing the maximum amount of land area remaining on Harvard’s property that might still fall subject to rigorous land use restrictions as stated in the deed.

Possible Data Improvements: Mapping of the Longfellow Acres site found only 49 acres of the original lot area thought to be 70 acres according to 1922 documents. Continued research might achieve the discovery of the full 70 acres.

Transportation

Boston's Bikemap, 8th Edition.

Bus routes and schedules from <http://mbta.com/schedmaps/>. Retrieved from the World Wide Web 8/2001-9/2001.

Locations of services from Areaguides.net at <http://Areaguides.net/>, <http://boston.areaguides.net>, <http://cambridge.areaguides.net>, <http://somerville.areaguides.net>, <http://allston.areaguides.net>, Retrieved from the World Wide Web 9/3-9/5/2001.

Massachusetts Bicycle Coalition "Bikeways and Trails" <http://massbike.org/bikeways/bikebos.htm>, Retrieved from the World Wide Web 5/30/2001.

Office of the University Disability Coordinator produced in conjunction with HPRE (1999, May). *Harvard University Access Map: Cambridge/Allston Campus*. Cambridge, MA.

"ZipCar – parking locations" <http://www.zipcar.com/parkingLocatons.jsp>, Retrieved from the World Wide Web 9/3/2001.

COMMUTING TO HARVARD

With the exception of bus routes, all transportation features listed were obtained from the Mass GIS website. Bus routes were digitized by the Property Information Unit during the summer of 2000.

ROADWAY ADMINISTRATION

Street geography, administrative type (ownership) and administrative systems (management) data compiled by the Mass Highway Department and distributed through MassGIS. Interpretation of MHD data completed by HPRE CAD/GIS Services and the HPRE Planning Unit. Harvard-owned streets were derived through spatial analysis of HPRE's streets and land ownership datalayers, and represents all streets shown on Harvard-owned land.

SIDEWALK SURVEY

Pedestrian network created by AM using greenspace, streets, and aerial photography. Data is still DRAFT quality.

STREET HIERARCHY

Street geography and functional class data compiled by the Mass Highway Department and distributed through MassGIS. Interpretation of MHD data completed by HPRE CAD/GIS Services and the HPRE Planning Unit. Harvard-owned streets were derived through spatial analysis of HPRE's streets and land ownership datalayers, and represents all streets shown on Harvard-owned land.

Urban Patterns

Ching, Francis D.K. (1979). *Architecture: Form, Space and Order*. New York: Van Nostrand Reinhold Company.

Vision

Bunting, Bainbridge and Robert H. Nylander (1973). *Survey of Architectural History in Cambridge, Report Four: Old Cambridge*. Cambridge: MIT Press. Illustrations: 350. Plan of Buildings, Paths, and Trees in College Yard 1856-57; 351. Plan of Harvard University, 1909; 393. Study of Proposed Widening of DeWolfe St. June, 1901; 394. Plan for the Development of the Land Held by Harvard Riverside Associates, 1903.

Harvard Planning Office (1960). *Harvard University 1960: An Inventory of Planning*. Cambridge: Harvard University Printing Office.

ILLUSTRATIONS:

Ill. 1: Olmsted, Olmsted & Eliot, 1896 from National Parks Service, Frederick Law Olmsted Historic Site.

Ill. 2: Olmsted Brothers, 1901 from Harvard University Archives.

Map: Coolidge, Shepley, Bulfinch & Abbott Plan of 1922 overlaid on the 2001 HPRE basemap, from Harvard University Archives.

Map: McKim, Mead & White 1924 Business School Competition Plan overlaid on the 2001 HPRE basemap, from Harvard University's Baker Library.

Map: Josep Lluís Sert and Harvard Planning Office Open Space Analysis of 1960 overlaid on the 2001 HPRE basemap from Harvard University's Loeb Special Collections.

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