



**CITY OF CAMBRIDGE**  
**INTEROFFICE CORRESPONDENCE**

**To** George Teso, Director of Traffic and Parking

**Date** December 22, 1983

**From** Paul E. Healy, City Clerk

**Reference**

**Subject** Enclosed M.D.C. Environmental Notification  
Form on the reconstruction of the Harvard  
Bridge

Pursuant to the request of the City Council, I am forwarding a copy of an Environmental Notification Form from the Metropolitan District Commission, regarding the reconstruction of the Harvard Bridge, as transmitted to the City Council by Robert T. Tierney, Commissioner of the Mass. Executive Office of Transportation and Construction, Department of Public Works, at its meeting of December 19, 1983.

The City Council at the above referenced meeting placed this communication on file, with copies to be transmitted to the City Manager and Conservation Commission. The Council also referred this communication to your department for report.

Your very kind attention in this matter will be greatly appreciated by the City Council.

PEH/mh

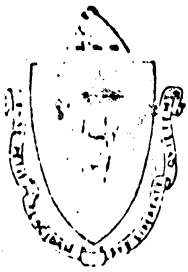
Enclosure: City Council Communication No. 4 of 12/19/83

Comm. from Robert T. Tierney, Commissioner,  
Mass. Exec. Office of Transportation & Con-  
struction, Dept. of Public Works Re: copy  
of an environmental notification form from  
the MDC Re: reconstruction of the Harvard  
Bridge.

12/21/83  
copy sent to the Conservation  
Commission & City Manager

In City Council,  
December 19, 1983

Placed on file  
Copy to City  
and  
Cons. Commission  
and  
Traffic Dept for Report



*The Commonwealth of Massachusetts*

RECEIVED BY  
OFFICE OF CITY CLERK  
*Executive Office of Transportation and Construction*

DEC 19 10 05 AM '83  
*Department of Public Works*  
CAMBRIDGE, MASS.

*Office of the Commissioner*

*100 Nashua Street, Boston 02114*

In accordance with Chapter 30, Section 62 - 62H of the Massachusetts General Law and Sections 6.1, 6.2 and Appendix B of the Regulations of the Executive Office of Environmental Affairs, the Department submits for your review and comments an Environmental Notification Form for the following proposed project:

Harvard Bridge Reconstruction

Cities of Boston and Cambridge

Please forward any comments you may wish to have considered to the Department of Public Works, Environmental Section. Also submit a copy of your comments to Secretary James S. Hoyte, Executive Office of Environmental Affairs, 100 Cambridge Street, Boston, Massachusetts 02202.

Very truly yours,

*Robert T. Tierney*  
ROBERT T. TIERNEY  
COMMISSIONER

# ENVIRONMENTAL NOTIFICATION FORM

## I. SUMMARY

### A. Project Identification

1. Project Name Harvard Bridge Reconstruction

2. Project Proponent M.D.P.W. (M.D.C.)

Address 100 Nashua Street

Boston, Massachusetts 02114

B. Project Description: (City/Town(s)) Boston-Cambridge

1. Location within city/town or street address Massachusetts Avenue over the Charles River

2. Est. Commencement Date: 6-85 Est. Completion Date: 3-87

Approx. Cost \$ 6,500,000.00 Current Status of Project Design: 10 % Complete

### C. Narrative Summary of Project

Describe project and give a description of the general project boundaries and the present use of the project area. (If necessary, use back of this page to complete summary).

The purpose of the proposed project is to replace the existing Harvard Bridge. The existing structure has been studied for several years and was recently partially closed due to a structural deficiency. As a result, only one lane is currently operating in each direction. The aim of the project is to remove the existing superstructure and replace it as closely as possible "in kind". The current cross-section provides the capability of two lanes in each direction plus a sidewalk on each side. The proposed Structure would not change this.

Existing traffic circulation on each end of the bridge would remain the same with the exception of the possible elimination of the ramp from the Boston Bound lane to Storrow Drive eastbound. In addition, a new pedestrian/handicapped ramp would be provided on the Boston side to allow access to the riverbank.

Do not write in this space

Copies of this may be obtained from:

Name: Thomas J. Hylands

Firm/Agency: Mass. Dept. Public Works

Address: 100 Nashua Street

Phone No. 727-4740

Use This Page to Complete Narrative, if necessary.

This project is one which is categorically included and therefore automatically requires preparation of an Environmental Impact Report : YES X NO \_\_\_\_\_

D. Scoping (Complete Sections II and III first, before completing this section.)

1. Check those areas which would be important to examine in the event that an EIR is required for this project. This information is important so that significant areas of concern can be identified as early as possible, in order to expedite analysis and review.

	Construc- tion Impacts	Long Term Impacts		Construc- tion Impacts	Long Term Impacts
Open Space & Recreation .....	<u>X</u>	_____	Mineral Resources .....	_____	_____
Historical .....	_____	<u>X</u>	Energy Use .....	_____	<u>X</u>
Archaeological .....	_____	_____	Water Supply & Use .....	_____	_____
Fishes & Wildlife .....	_____	_____	Water Pollution .....	<u>X</u>	_____
Vegetation, Trees .....	_____	_____	Air Pollution .....	<u>X</u>	_____
Other Biological Systems .....	_____	_____	Noise .....	<u>X</u>	_____
Wetlands .....	_____	_____	Traffic .....	<u>X</u>	_____
Coastal Wetlands or Beaches .....	_____	_____	Solid Waste .....	_____	_____
Other Hazard Areas .....	_____	_____	Aesthetics .....	<u>X</u>	_____
Chemicals, Hazardous Substances, .....	_____	_____	Wind and Shadow .....	_____	_____
High Risk Operations .....	_____	_____	Growth Impacts .....	_____	_____
Geologically Unstable Areas .....	_____	_____	Community/Housing and the Built .....	_____	_____
Cultural Land .....	_____	_____	Environment .....	_____	_____
Other (Specify) .....	_____	_____		_____	_____

2. List the alternatives which you would consider to be feasible in the event an EIR is required.

Build  
No Build

E. Has this project been filed with EOE A before? Yes \_\_\_\_\_ No X  
 If Yes, EOE A No. \_\_\_\_\_ EOE A Action? \_\_\_\_\_

F. Does this project fall under the jurisdiction of NEPA? Yes X No \_\_\_\_\_  
 If Yes, which Federal Agency? FHWA NEPA Status? Envir. Assessment

G. List the State or Federal agencies from which permits will be sought:

Agency Name	Type of Permit
-------------	----------------

H. Will an Order of Conditions be required under the provisions of the Wetlands Protection Act (Chap. 131, Section 40)?  
 Yes X No \_\_\_\_\_

DEQE File No., if applicable: \_\_\_\_\_

I. List the agencies from which the proponent will seek financial assistance for this project:

Agency Name	Funding Amount
-------------	----------------

M.D.P.W.	20%
F.H.W.A.	80%

II. PROJECT DESCRIPTION

A. Include an original 8 1/2 x 11 inch or larger section of the most recent U.S.G.S. 1:24,000 scale topographic map with the project area location and boundaries clearly shown. Include multiple maps if necessary for large projects. Include other maps, diagrams or aerial photos if the project cannot be clearly shown at U.S.G.S. scale. If available, attach a plan sketch of the proposed project.

B. State total area of project: 4± acres

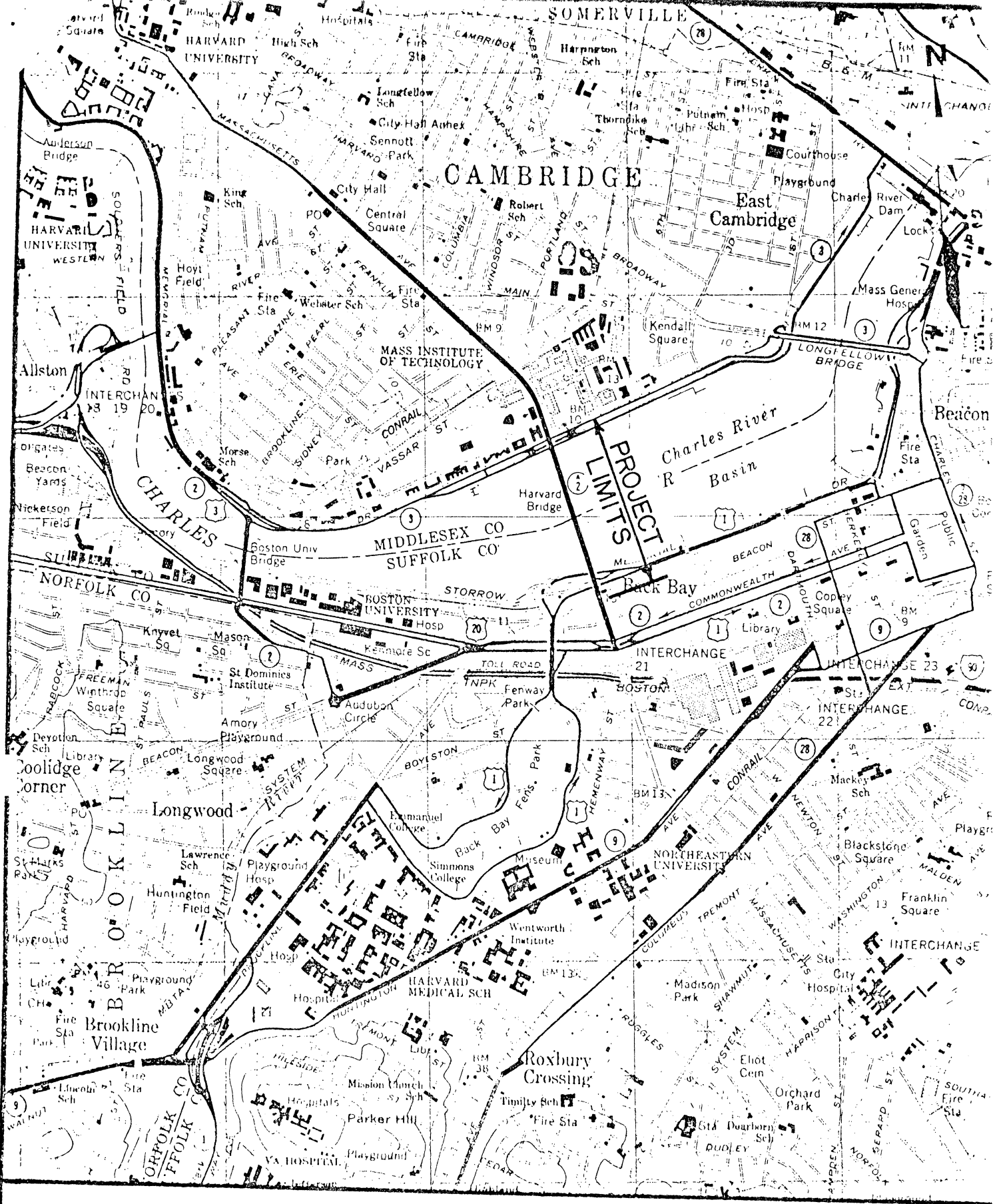
Estimate the number of acres (to the nearest 1/10 acre) directly affected that are currently:

1. Developed	..... <u>4±</u> acres	4. Floodplain	..... <u>0</u> acres
2. Open Space/Woodlands/Recreation	..... <u>0</u> acres	5. Coastal Area	..... <u>0</u> acres
3. Wetlands	..... <u>0</u> acres	6. Productive Resources	.....
		Agriculture	..... <u>0</u> acres
		Forestry	..... <u>0</u> acres
		Mineral Products	..... <u>0</u> acres

C. Provide the following dimensions, if applicable:

Length in miles	<u>.42</u>	Number of Housing Units	<u>0</u>	Number of Stories	<u>0</u>
Number of Parking Spaces	.....	Existing	<u>0</u>	Immediate Increase Due to Project	<u>0</u>
Vehicle Trips to Project Site	.....	1980 ADT	<u>37,000</u>		
Estimated Vehicle Trips past project site	<u>37,000</u>				

D. If the proposed project will require any permit for access to local or state highways, please attach a sketch showing the location of the proposed driveway(s) in relation to the highway and to the general development plan; identifying all local and state highways abutting the development; and indicating the number of lanes, pavement width, median strips and adjacent driveways on each abutting highway; and indicating the distance to the nearest intersection.



# HARVARD BRIDGE RECONSTRUCTION

## LOCATION MAP

Scale: 1" = 2,000'

### ASSESSMENT OF POTENTIAL ADVERSE ENVIRONMENTAL IMPACTS

*Instructions:* Consider direct and indirect adverse impacts, including those arising from general construction and operations. For every answer explain why significant adverse impact is considered likely or unlikely to result.

Also, state the source of information or other basis for the answers supplied. If the source of the information, in part or in full, is not listed in the ENF, the preparing officer will be assumed to be the source of the information. Such environmental information should be acquired at least in part by field inspection.

#### A. Open Space and Recreation

1. Might the project affect the condition, use or access to any open space and/or recreation area? Yes X No \_\_\_\_\_

*Explanation and Source:*

A pedestrian ramp will provide access to the riverbank on the Boston side.

During construction, a staging area will be required which may have to be on the riverbank. - However, after construction the open space will be returned to original condition. The recreation areas contiguous to the construction site will be restored to their original condition.

#### B. Historic Resources

1. Might any site or structure of historic significance be affected by the project? Yes X No \_\_\_\_\_

*Explanation and Source:*

The existing structure is listed on the National Register of Historic Sites - A Section 106 consultation will be conducted with M.H.C.

2. Might any archaeological site be affected by the project? Yes \_\_\_\_\_ No X

*Explanation and Source:*

No excavation on river banks or in river.

#### 2. Ecological Effects

1. Might the project significantly affect fisheries or wildlife, especially any rare or endangered species? Yes \_\_\_\_\_ No X

*Explanation and Source:*

There will be no construction or excavation in the river.

2. Might the project significantly affect vegetation, especially any rare or endangered species of plant? Yes \_\_\_\_\_ No X

(Estimate approximate number of mature trees to be removed: 0)

*Explanation and Source:*

The only affect will be during construction and no trees will be disturbed - all grassed areas will be restored.

3. Might the project alter or affect flood hazard areas, inland or coastal wetlands (e.g., estuaries, marshes, sand dunes and beaches, ponds, streams, rivers, fish runs, or shellfish beds)? Yes \_\_\_\_\_ No X

*Explanation and Source:*

4. Might the project affect shoreline erosion or accretion at the project site, downstream or in nearby coastal areas? Yes \_\_\_\_\_ No X

*Explanation and Source:*

5. Might the project involve other geologically unstable areas? Yes \_\_\_\_\_ No X

*Explanation and Source:*

#### D. Hazardous Substances

1. Might the project involve the use, transportation, storage, release, or disposal of potentially hazardous substances?

Yes \_\_\_\_\_ No X

*Explanation and Source:*

Resource Conservation and Use

1. Might the project affect or eliminate land suitable for agricultural or forestry production?

Yes \_\_\_\_\_ No X

(Describe any present agricultural land use and farm units affected.)

Explanation and Source:

2. Might the project directly affect the potential use or extraction of mineral or energy resources (e.g., oil, coal, sand & gravel, ores)? Yes X No \_\_\_\_\_

Explanation and Source:

An amount of sand and aggregate will be required for the making of concrete.

3. Might the operation of the project result in any increased consumption of energy? Yes X No \_\_\_\_\_

Explanation and Source:

(If applicable, describe plans for conserving energy resources.)

During construction only for equipment.

Water Quality and Quantity

1. Might the project result in significant changes in drainage patterns? Yes \_\_\_\_\_ No X

Explanation and Source:

2. Might the project result in the introduction of pollutants into any of the following:

- (a) Marine Waters ..... Yes \_\_\_\_\_ No X
- (b) Surface Fresh Water Body ..... Yes X No \_\_\_\_\_
- (c) Ground Water ..... Yes \_\_\_\_\_ No X

Explain types and quantities of pollutants.

During demolition and construction, some debris may fall into the river. Every effort will be made to minimize this in the contract specifications.

3. Will the project generate sanitary sewage? Yes \_\_\_\_\_ No X

If Yes, Quantity: \_\_\_\_\_ gallons per day

Disposal by: (a) Onsite septic systems ..... Yes \_\_\_\_\_ No \_\_\_\_\_  
(b) Public sewerage systems ..... Yes \_\_\_\_\_ No \_\_\_\_\_  
(c) Other means (describe) \_\_\_\_\_

4. Might the project result in an increase in paved or impervious surface over an aquifer recognized as an important present or future source of water supply? Yes \_\_\_\_\_ No X

Explanation and Source:

5. Is the project in the watershed of any surface water body used as a drinking water supply?

Yes \_\_\_\_\_ No X

Are there any public or private drinking water wells within a 1/2-mile radius of the proposed project?

Yes \_\_\_\_\_ No X

Explanation and Source:

6. Might the operation of the project result in any increased consumption of water? Yes \_\_\_\_\_ No X

Approximate consumption \_\_\_\_\_ gallons per day. Likely water source(s) \_\_\_\_\_

Explanation and Source:

7. Does the project involve any dredging? Yes \_\_\_\_\_ No X

If Yes, indicate:

Quantity of material to be dredged \_\_\_\_\_

Quality of material to be dredged \_\_\_\_\_

Proposed method of dredging \_\_\_\_\_

Proposed disposal sites \_\_\_\_\_

Proposed season of year for dredging \_\_\_\_\_

Explanation and Source:

## Quality

1. Might the project affect the air quality in the project area or the immediately adjacent area?

Yes  No

Describe type and source of any pollution emission from the project site. equipment exhaust

Construction equipment exhaust.

Rerouting of traffic during construction may cause some change in air quality.

2. Are there any sensitive receptors (e.g., hospitals, schools, residential areas) which would be affected by any pollution emissions caused by the project, including construction dust? Yes  No

*Explanation and Source:*

The only school is Massachusetts Institute of Technology. Every effort to minimize the harm will be addressed in the EA/EIR.

3. Will access to the project area be primarily by automobile? Yes  No

Describe any special provisions now planned for pedestrian access, carpooling, buses and other mass transit.

A pedestrian ramp to the riverbank on the Boston end will be added.

There will be no additional traffic added due to the improvement.

## H. Noise

1. Might the project result in the generation of noise? Yes  No

*Explanation and Source:*

(Include any source of noise during construction or operation, e.g., engine exhaust, pile driving, traffic.)

Construction equipment.

Rerouting of traffic during construction may cause a change in noise in some areas.

2. Are there any sensitive receptors (e.g., hospitals, schools, residential areas) which would be affected by any noise caused by the project? Yes  No

*Explanation and Source:*

Residential areas, Massachusetts Institute of Technology

## I. Solid Waste

1. Might the project generate solid waste? Yes X No

*Explanation and Source:*

(Estimate types and approximate amounts of waste materials generated, e.g., industrial, domestic, hospital, sewage sludge, construction debris from demolished structures.)

The existing superstructure will be demolished and disposed of at designated sites not yet determined.

## J. Aesthetics

1. Might the project cause a change in the visual character of the project area or its environs?  
Yes        No X

*Explanation and Source:*

The bridge will be replaced as closely as possible "in kind".

2. Are there any proposed structures which might be considered incompatible with existing adjacent structures in the vicinity in terms of size, physical proportion and scale, or significant differences in land use?  
Yes        No X

*Explanation and Source:*

3. Might the project impair visual access to waterfront or other scenic areas? Yes        No X

*Explanation and Source:*

## K. Wind and Shadow

1. Might the project cause wind and shadow impacts on adjacent properties? Yes        No X

*Explanation and Source:*

IV. CONSISTENCY WITH PRESENT PLANNING

A. Describe any known conflicts or inconsistencies with current federal, state and local land use, transportation, open space, recreation and environmental plans and policies. Consult with local or regional planning authorities where appropriate.

All agencies, City, State and Federal are in agreement with the proposed action.

V. FINDINGS AND CERTIFICATION

A. The notice of intent to file this form will be published in the following newspaper(s):

(Name) Boston Globe (Date) 12/12/83
Cambridge Chronicle 12/12/83

B. This form has been circulated to all agencies and persons as required by Appendix B.

12/8/83 Robert M. Horigan
Date Signature of Responsible Officer or Project Proponent

Robert M. Horigan
Name (print or type)

Address 100 Natchua St
Boston, Mass. 02114
Telephone Number 727-4749

Robert A. McDonough 12/8/83
Chief Engr. MDPW

12-8-83
Date

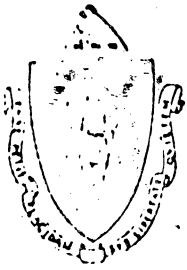
Robert M. Fitzgerald
Signature of person preparing ENF (if different from above)

Robert T. ... 12/8/83
Commissioner MDPW

Kenneth E. Kruckemeyer
Comm. Hwy. Eng.

Robert M. Fitzgerald, P.E.
Name (print or type)

Address 121 Beach Street
Boston, MA 02111
Telephone Number 426-4960



*The Commonwealth of Massachusetts*

RECEIVED BY  
OFFICE OF CITY CLERK  
*Executive Office of Transportation and Construction*

DEC 19 10 05 AM '83  
*Department of Public Works*  
CAMBRIDGE, MASS.

*Office of the Commissioner*

*100 Nashua Street, Boston 02114*

In accordance with Chapter 30, Section 62 - 62H of the Massachusetts General Law and Sections 6.1, 6.2 and Appendix B of the Regulations of the Executive Office of Environmental Affairs, the Department submits for your review and comments an Environmental Notification Form for the following proposed project:

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Cities of Boston and Cambridge

Please forward any comments you may wish to have considered to the Department of Public Works, Environmental Section. Also submit a copy of your comments to Secretary James S. Hoyte, Executive Office of Environmental Affairs, 100 Cambridge Street, Boston, Massachusetts 02202.

Very truly yours,

*Robert T. Tierney*  
ROBERT T. TIERNEY  
COMMISSIONER

APPENDIX A  
COMMONWEALTH OF MASSACHUSETTS  
EXECUTIVE OFFICE OF ENVIRONMENTAL AFFAIRS

ENVIRONMENTAL NOTIFICATION FORM

I. SUMMARY

A. Project Identification

1. Project Name Harvard Bridge Reconstruction

2. Project Proponent M.D.P.W. (M.D.C.)

Address 100 Nashua Street

Boston, Massachusetts 02114

B. Project Description: (City/Town(s)) Boston-Cambridge

1. Location within city/town or street address Massachusetts Avenue over the Charles River

2. Est. Commencement Date: 6-85 Est. Completion Date: 3-87

Approx. Cost \$ 6,500,000.00 Current Status of Project Design: 10 % Complete

C. Narrative Summary of Project

Describe project and give a description of the general project boundaries and the present use of the project area. (If necessary, use back of this page to complete summary).

The purpose of the proposed project is to replace the existing Harvard Bridge. The existing structure has been studied for several years and was recently partially closed due to a structural deficiency. As a result, only one lane is currently operating in each direction. The aim of the project is to remove the existing superstructure and replace it as closely as possible "in kind". The current cross-section provides the capability of two lanes in each direction plus a sidewalk on each side. The proposed Structure would not change this.

Existing traffic circulation on each end of the bridge would remain the same with the exception of the possible elimination of the ramp from the Boston Bound lane to Storrow Drive eastbound. In addition, a new pedestrian/handicapped ramp would be provided on the Boston side to allow access to the riverbank.

Do not write in this space

Copies of this may be obtained from:

Name: Thomas J. Hylands

Firm/Agency: Mass. Dept. Public Works

Address: 100 Nashua Street

Phone No. 727-4740

Use This Page to Complete Narrative, if necessary.

This project is one which is categorically included and therefore automatically requires preparation of an Environmental Impact Report : YES X NO

D. Scoping (Complete Sections II and III first, before completing this section.)

1. Check those areas which would be important to examine in the event that an EIR is required for this project. This information is important so that significant areas of concern can be identified as early as possible, in order to expedite analysis and review.

	Construction Impacts	Long Term Impacts		Construction Impacts	Long Term Impacts
Open Space & Recreation	<u>X</u>		Mineral Resources		
Historical		<u>X</u>	Energy Use		<u>X</u>
Archaeological			Water Supply & Use		
Fishes & Wildlife			Water Pollution	<u>X</u>	
Vegetation, Trees			Air Pollution	<u>X</u>	
Other Biological Systems			Noise	<u>X</u>	
Wetlands			Traffic	<u>X</u>	
Estuarine Wetlands or Beaches			Solid Waste		
Other Hazard Areas			Aesthetics	<u>X</u>	
Chemicals, Hazardous Substances,			Wind and Shadow		
High Risk Operations			Growth Impacts		
Geologically Unstable Areas			Community/Housing and the Built Environment		
Cultural Land					
Other (Specify)					

2. List the alternatives which you would consider to be feasible in the event an EIR is required.

Build  
No Build

E. Has this project been filed with EOE A before? Yes \_\_\_\_\_ No X  
 If Yes, EOE A No. \_\_\_\_\_ EOE A Action? \_\_\_\_\_

F. Does this project fall under the jurisdiction of NEPA? Yes X No \_\_\_\_\_  
 If Yes, which Federal Agency? FHWA NEPA Status? Envir. Assessment

G. List the State or Federal agencies from which permits will be sought:

Agency Name	Type of Permit
-------------	----------------

H. Will an Order of Conditions be required under the provisions of the Wetlands Protection Act (Chap. 131, Section 40)?  
 Yes X No \_\_\_\_\_

DEQE File No., if applicable: \_\_\_\_\_

I. List the agencies from which the proponent will seek financial assistance for this project:

Agency Name	Funding Amount
M.D.P.W.	20%
F.H.W.A.	80%

II. PROJECT DESCRIPTION

A. Include an original 8 1/2 x 11 inch or larger section of the most recent U.S.G.S. 1:24,000 scale topographic map with the project area location and boundaries clearly shown. Include multiple maps if necessary for large projects. Include other maps, diagrams or aerial photos if the project cannot be clearly shown at U.S.G.S. scale. If available, attach a plan sketch of the proposed project.

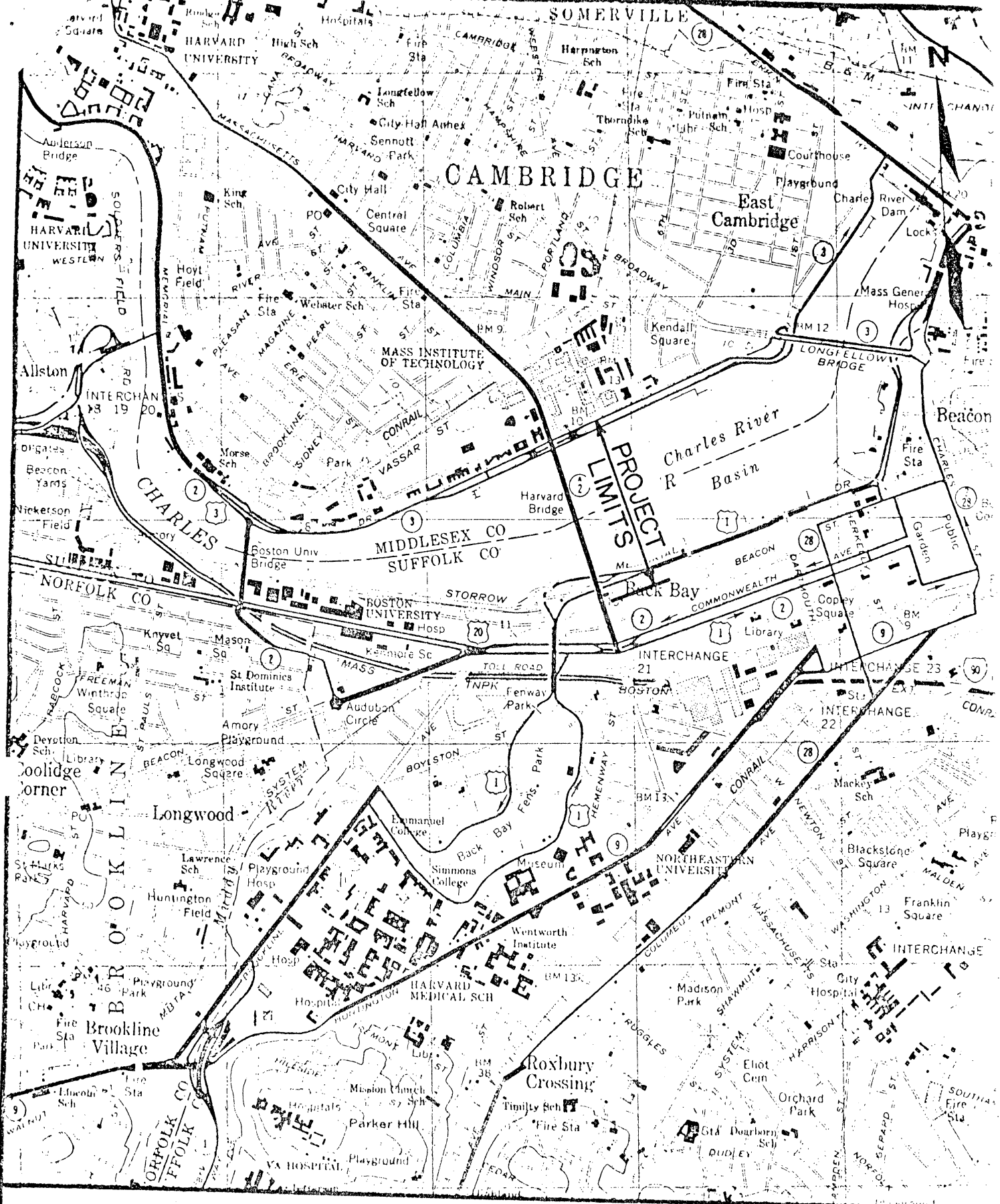
B. State total area of project: 4± acres  
 Estimate the number of acres (to the nearest 1/10 acre) directly affected that are currently:

1. Developed	<u>4±</u> acres	4. Floodplain	<u>0</u> acres
2. Open Space/Woodlands/Recreation	<u>0</u> acres	5. Coastal Area	<u>0</u> acres
3. Wetlands	<u>0</u> acres	6. Productive Resources	
		Agriculture	<u>0</u> acres
		Forestry	<u>0</u> acres
		Mineral Products	<u>0</u> acres

C. Provide the following dimensions, if applicable:

Length in miles	<u>.42</u>	Number of Housing Units	<u>0</u>	Number of Stories	<u>0</u>
Number of Parking Spaces	<u>0</u>	Existing	<u>0</u>	Immediate Increase Due to Project	<u>0</u>
Vehicle Trips to Project Site	<u>37,000</u>	1980 ADT	<u>      </u>		
Estimated Vehicle Trips past project site	<u>37,000</u>				

D. If the proposed project will require any permit for access to local or state highways, please attach a sketch showing the location of the proposed driveway(s) in relation to the highway and to the general development plan; identifying all local and state highways abutting the development; and indicating the number of lanes, pavement width, median strips and adjacent driveways on each abutting highway; and indicating the distance to the nearest intersection.



# HARVARD BRIDGE RECONSTRUCTION

## LOCATION MAP

Scale: 1" = 2,000'

# ASSESSMENT OF POTENTIAL ADVERSE ENVIRONMENTAL IMPACTS

*Instructions:* Consider direct and indirect adverse impacts, including those arising from general construction and operations. For every answer explain why significant adverse impact is considered likely or unlikely to result.

Also, state the source of information or other basis for the answers supplied. If the source of the information, in part or in full, is not listed in the ENF, the preparing officer will be assumed to be the source of the information. Such environmental information should be acquired at least in part by field inspection.

## A. Open Space and Recreation

1. Might the project affect the condition, use or access to any open space and/or recreation area? Yes X No       

*Explanation and Source:*

A pedestrian ramp will provide access to the riverbank on the Boston side.

During construction, a staging area will be required which may have to be on the riverbank. - However, after construction the open space will be returned to original condition. The recreation areas contiguous to the construction site will be restored to their original condition.

## B. Historic Resources

1. Might any site or structure of historic significance be affected by the project? Yes X No       

*Explanation and Source:*

The existing structure is listed on the National Register of Historic Sites - A Section 106 consultation will be conducted with M.H.C.

2. Might any archaeological site be affected by the project? Yes        No X

*Explanation and Source:*

No excavation on river banks or in river.

## C. Ecological Effects

1. Might the project significantly affect fisheries or wildlife, especially any rare or endangered species? Yes        No X

*Explanation and Source:*

There will be no construction or excavation in the river.

2. Might the project significantly affect vegetation, especially any rare or endangered species of plant? Yes \_\_\_\_\_ No X

(Estimate approximate number of mature trees to be removed: 0)

*Explanation and Source:*

The only affect will be during construction and no trees will be disturbed - all grassed areas will be restored.

3. Might the project alter or affect flood hazard areas, inland or coastal wetlands (e.g., estuaries, marshes, sand dunes and beaches, ponds, streams, rivers, fish runs, or shellfish beds)? Yes \_\_\_\_\_ No X

*Explanation and Source:*

4. Might the project affect shoreline erosion or accretion at the project site, downstream or in nearby coastal areas? Yes \_\_\_\_\_ No X

*Explanation and Source:*

5. Might the project involve other geologically unstable areas? Yes \_\_\_\_\_ No X

*Explanation and Source:*

#### D. Hazardous Substances

1. Might the project involve the use, transportation, storage, release, or disposal of potentially hazardous substances?

Yes \_\_\_\_\_ No X

*Explanation and Source:*

Resource Conservation and Use

1. Might the project affect or eliminate land suitable for agricultural or forestry production?

Yes \_\_\_\_\_ No X

(Describe any present agricultural land use and farm units affected.)

Explanation and Source:

2. Might the project directly affect the potential use or extraction of mineral or energy resources (e.g., oil, coal, sand & gravel, ores)? Yes X No \_\_\_\_\_

Explanation and Source:

An amount of sand and aggregate will be required for the making of concrete.

3. Might the operation of the project result in any increased consumption of energy? Yes X No \_\_\_\_\_

Explanation and Source:

(If applicable, describe plans for conserving energy resources.)

During construction only for equipment.

Water Quality and Quantity

1. Might the project result in significant changes in drainage patterns? Yes \_\_\_\_\_ No X

Explanation and Source:

2. Might the project result in the introduction of pollutants into any of the following:

- (a) Marine Waters ..... Yes \_\_\_\_\_ No X
- (b) Surface Fresh Water Body ..... Yes X No \_\_\_\_\_
- (c) Ground Water ..... Yes \_\_\_\_\_ No X

Explain types and quantities of pollutants.

During demolition and construction, some debris may fall into the river. Every effort will be made to minimize this in the contract specifications.

3. Will the project generate sanitary sewage? Yes \_\_\_\_\_ No X

If Yes, Quantity: \_\_\_\_\_ gallons per day

Disposal by: (a) Onsite septic systems ..... Yes \_\_\_\_\_ No \_\_\_\_\_  
(b) Public sewerage systems ..... Yes \_\_\_\_\_ No \_\_\_\_\_  
(c) Other means (describe) \_\_\_\_\_

4. Might the project result in an increase in paved or impervious surface over an aquifer recognized as an important present or future source of water supply? Yes \_\_\_\_\_ No X

Explanation and Source:

5. Is the project in the watershed of any surface water body used as a drinking water supply?

Yes \_\_\_\_\_ No X

Are there any public or private drinking water wells within a 1/2-mile radius of the proposed project?

Yes \_\_\_\_\_ No X

Explanation and Source:

6. Might the operation of the project result in any increased consumption of water? Yes \_\_\_\_\_ No X

Approximate consumption \_\_\_\_\_ gallons per day. Likely water source(s) \_\_\_\_\_

Explanation and Source:

7. Does the project involve any dredging? Yes \_\_\_\_\_ No X

If Yes, indicate:

Quantity of material to be dredged \_\_\_\_\_

Quality of material to be dredged \_\_\_\_\_

Proposed method of dredging \_\_\_\_\_

Proposed disposal sites \_\_\_\_\_

Proposed season of year for dredging \_\_\_\_\_

Explanation and Source:

Quality

1. Might the project affect the air quality in the project area or the immediately adjacent area?

Yes X No \_\_\_\_\_

Describe type and source of any pollution emission from the project site. equipment exhaust

Construction equipment exhaust.

Rerouting of traffic during construction may cause some change in air quality.

2. Are there any sensitive receptors (e.g., hospitals, schools, residential areas) which would be affected by any pollution emissions caused by the project, including construction dust? Yes X No \_\_\_\_\_

Explanation and Source:

The only school is Massachusetts Institute of Technology. Every effort to minimize the harm will be addressed in the EA/EIR.

3. Will access to the project area be primarily by automobile? Yes X No \_\_\_\_\_

Describe any special provisions now planned for pedestrian access, carpooling, buses and other mass transit.

A pedestrian ramp to the riverbank on the Boston end will be added.

There will be no additional traffic added due to the improvement.

H. Noise

1. Might the project result in the generation of noise? Yes X No \_\_\_\_\_

Explanation and Source:

(Include any source of noise during construction or operation, e.g., engine exhaust, pile driving, traffic.)

Construction equipment.

Rerouting of traffic during construction may cause a change in noise in some areas.

2. Are there any sensitive receptors (e.g., hospitals, schools, residential areas) which would be affected by any noise caused by the project? Yes X No \_\_\_\_\_

Explanation and Source:

Residential areas, Massachusetts Institute of Technology

## I. Solid Waste

1. Might the project generate solid waste? Yes X No \_\_\_\_\_

*Explanation and Source:*

(Estimate types and approximate amounts of waste materials generated, e.g., industrial, domestic, hospital, sewage sludge, construction debris from demolished structures.)

The existing superstructure will be demolished and disposed of at designated sites not yet determined.

## J. Aesthetics

1. Might the project cause a change in the visual character of the project area or its environs?  
Yes \_\_\_\_\_ No X

*Explanation and Source:*

The bridge will be replaced as closely as possible "in kind".

2. Are there any proposed structures which might be considered incompatible with existing adjacent structures in the vicinity in terms of size, physical proportion and scale, or significant differences in land use?  
Yes \_\_\_\_\_ No X

*Explanation and Source:*

3. Might the project impair visual access to waterfront or other scenic areas? Yes \_\_\_\_\_ No X

*Explanation and Source:*

## K. Wind and Shadow

1. Might the project cause wind and shadow impacts on adjacent properties? Yes \_\_\_\_\_ No X

*Explanation and Source:*

IV. CONSISTENCY WITH PRESENT PLANNING

A. Describe any known conflicts or inconsistencies with current federal, state and local land use, transportation, open space, recreation and environmental plans and policies. Consult with local or regional planning authorities where appropriate.

All agencies, City, State and Federal are in agreement with the proposed action.

V. FINDINGS AND CERTIFICATION

A. The notice of intent to file this form will be published in the following newspaper(s):

(Name) Boston Globe (Date) 12/12/83
Cambridge Chronicle 12/12/83

B. This form has been circulated to all agencies and persons as required by Appendix B.

12/8/83 [Signature]
Date Signature of Responsible Officer or Project Proponent

Robert M. Horigan
Name (print or type)

Address 100 N. Beacon St
Boston, Mass. 02114
Telephone Number 271-4749

[Signature] 12/8/83
Chief Engr. MDPV

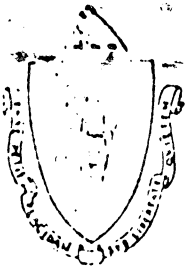
12-8-83 [Signature]
Date Signature of person preparing ENF (if different from above)

Robert M. Fitzgerald, P.E.
Name (print or type)

Address 121 Beach Street
Boston, MA 02111
Telephone Number 426-4960

[Signature] 12/1/83
Commissioner MDPV

[Signature]
Kenneth E. Kruckemeyer
Assoc. Comm. Hwy. Eng.



*The Commonwealth of Massachusetts*

RECEIVED BY  
OFFICE OF CITY CLERK  
Executive Office of Transportation and Construction

DEC 19 10 05 AM '83  
Department of Public Works  
CAMBRIDGE, MASS.

*Office of the Commissioner*

*100 Nashua Street, Boston 02114*

In accordance with Chapter 30, Section 62 - 62H of the Massachusetts General Law and Sections 6.1, 6.2 and Appendix B of the Regulations of the Executive Office of Environmental Affairs, the Department submits for your review and comments an Environmental Notification Form for the following proposed project:

Harvard Bridge Reconstruction

Cities of Boston and Cambridge

Please forward any comments you may wish to have considered to the Department of Public Works, Environmental Section. Also submit a copy of your comments to Secretary James S. Hoyte, Executive Office of Environmental Affairs, 100 Cambridge Street, Boston, Massachusetts 02202.

Very truly yours,

*Robert T. Tierney*  
ROBERT T. TIERNEY  
COMMISSIONER

APPENDIX A  
COMMONWEALTH OF MASSACHUSETTS  
EXECUTIVE OFFICE OF ENVIRONMENTAL AFFAIRS

ENVIRONMENTAL NOTIFICATION FORM

I. SUMMARY

A. Project Identification

1. Project Name Harvard Bridge Reconstruction

2. Project Proponent M.D.P.W. (M.D.C.)

Address 100 Nashua Street

Boston, Massachusetts 02114

B. Project Description: (City/Town(s)) Boston-Cambridge

1. Location within city/town or street address Massachusetts Avenue over the Charles River

2. Est. Commencement Date: 6-85 Est. Completion Date: 3-87

Approx. Cost \$ 6,500,000.00 Current Status of Project Design: 10 % Complete

C. Narrative Summary of Project

Describe project and give a description of the general project boundaries and the present use of the project area. (If necessary, use back of this page to complete summary).

The purpose of the proposed project is to replace the existing Harvard Bridge. The existing structure has been studied for several years and was recently partially closed due to a structural deficiency. As a result, only one lane is currently operating in each direction. The aim of the project is to remove the existing superstructure and replace it as closely as possible "in kind". The current cross-section provides the capability of two lanes in each direction plus a sidewalk on each side. The proposed Structure would not change this.

Existing traffic circulation on each end of the bridge would remain the same with the exception of the possible elimination of the ramp from the Boston Bound lane to Storrow Drive eastbound. In addition, a new pedestrian/handicapped ramp would be provided on the Boston side to allow access to the riverbank.

Copies of this may be obtained from:

Name: Thomas J. Hyland Firm/Agency: Mass. Dept. Public Works  
Address: 100 Nashua Street Phone No. 727-4740

Do not write in this space

Use This Page to Complete Narrative, if necessary.

This project is one which is categorically included and therefore automatically requires preparation of an Environmental Impact

Report : YES X NO

D. Scoping (Complete Sections II and III first, before completing this section.)

1. Check those areas which would be important to examine in the event that an EIR is required for this project. This information is important so that significant areas of concern can be identified as early as possible, in order to expedite analysis and review.

	Construc- tion Impacts	Long Term Impacts		Construc- tion Impacts	Long Term Impacts
Open Space & Recreation .....	<u>X</u>		Mineral Resources .....		
Historical .....		<u>X</u>	Energy Use .....		<u>X</u>
Archaeological .....			Water Supply & Use .....		
Fishes & Wildlife .....			Water Pollution .....	<u>X</u>	
Vegetation, Trees .....			Air Pollution .....	<u>X</u>	
Other Biological Systems .....			Noise .....	<u>X</u>	
Wetlands .....			Traffic .....	<u>X</u>	
Estuarine Wetlands or Beaches .....			Solid Waste .....		
Other Hazard Areas .....			Aesthetics .....	<u>X</u>	
Chemicals, Hazardous Substances, .....			Wind and Shadow .....		
High Risk Operations .....			Growth Impacts .....		
Geologically Unstable Areas .....			Community/Housing and the Built .....		
Cultural Land .....			Environment .....		
Other (Specify) .....					

2. List the alternatives which you would consider to be feasible in the event an EIR is required.

Build  
No Build

E. Has this project been filed with EOE A before? Yes \_\_\_\_\_ No X  
 If Yes: EOE A No. \_\_\_\_\_ EOE A Action? \_\_\_\_\_

F. Does this project fall under the jurisdiction of NEPA? Yes X No \_\_\_\_\_  
 If Yes, which Federal Agency? FHWA NEPA Status? Envir. Assessment

G. List the State or Federal agencies from which permits will be sought:

Agency Name	Type of Permit
-------------	----------------

H. Will an Order of Conditions be required under the provisions of the Wetlands Protection Act (Chap. 131, Section 40)?  
 Yes X No \_\_\_\_\_

DEQE File No., if applicable: \_\_\_\_\_

I. List the agencies from which the proponent will seek financial assistance for this project:

Agency Name	Funding Amount
M.D.P.W.	20%
F.H.W.A.	80%

II. PROJECT DESCRIPTION

A. Include an original 8 1/2 x 11 inch or larger section of the most recent U.S.G.S. 1:24,000 scale topographic map with the project area location and boundaries clearly shown. Include multiple maps if necessary for large projects. Include other maps, diagrams or aerial photos if the project cannot be clearly shown at U.S.G.S. scale. If available, attach a plan sketch of the proposed project.

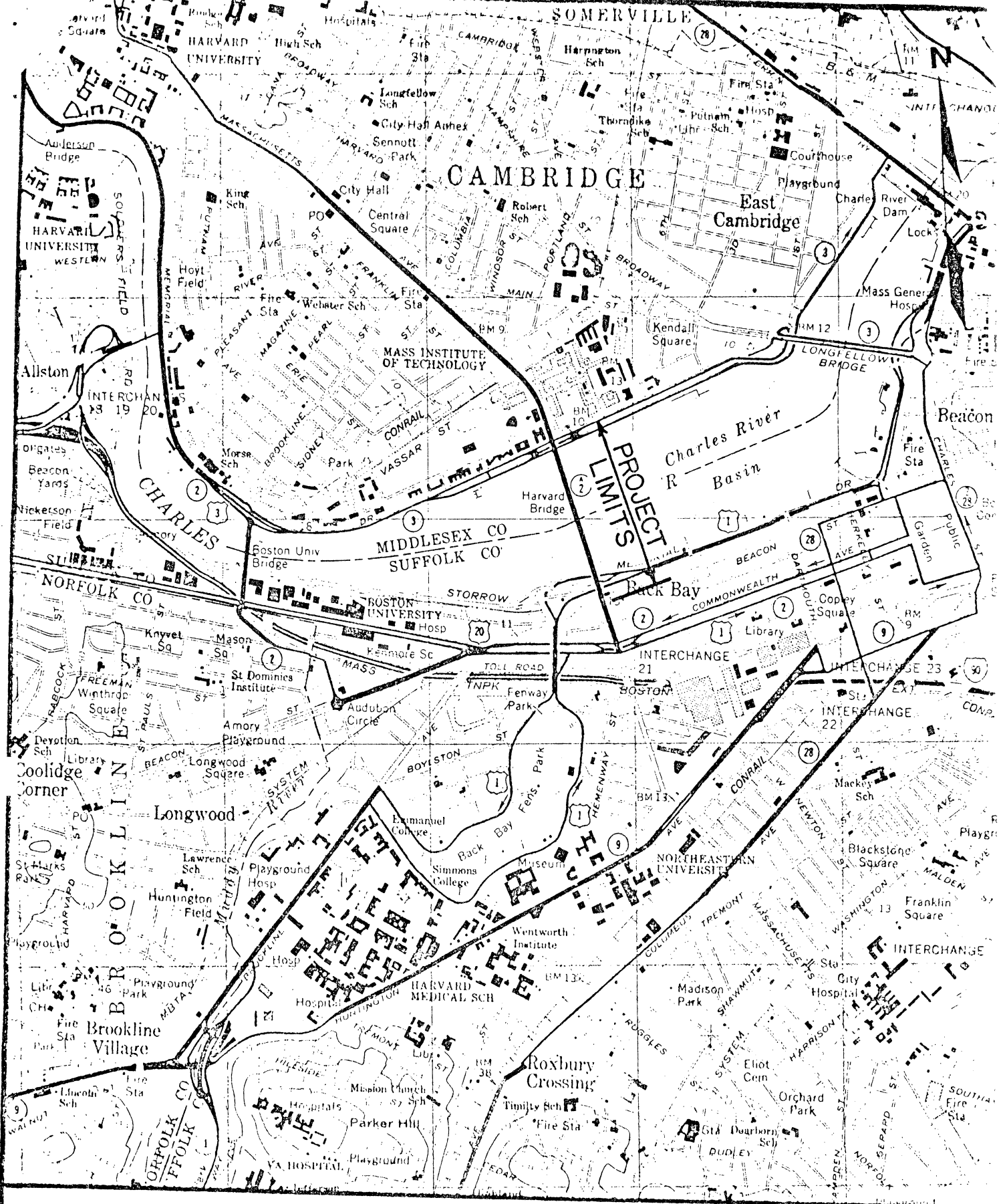
B. State total area of project: 4± acres  
 Estimate the number of acres (to the nearest 1/10 acre) directly affected that are currently:

1. Developed	..... <u>4±</u> acres	4. Floodplain	..... <u>0</u> acres
2. Open Space/Woodlands/Recreation	..... <u>0</u> acres	5. Coastal Area	..... <u>0</u> acres
3. Wetlands	..... <u>0</u> acres	6. Productive Resources	.....
		Agriculture	..... <u>0</u> acres
		Forestry	..... <u>0</u> acres
		Mineral Products	..... <u>0</u> acres

C. Provide the following dimensions, if applicable:

Length in miles	<u>.42</u>	Number of Housing Units	<u>0</u>	Number of Stories	<u>0</u>
Number of Parking Spaces	.....	Existing	<u>0</u>	Immediate Increase Due to Project	
Vehicle Trips to Project Site	.....	1980 ADT	<u>0</u>		
Estimated Vehicle Trips past project site	<u>37,000</u>				

D. If the proposed project will require any permit for access to local or state highways, please attach a sketch showing the location of the proposed driveway(s) in relation to the highway and to the general development plan; identifying all local and state highways abutting the development; and indicating the number of lanes, pavement width, median strips and adjacent driveways on each abutting highway; and indicating the distance to the nearest intersection.



# HARVARD BRIDGE RECONSTRUCTION

## LOCATION MAP

Scale: 1" = 2,000'

### ASSESSMENT OF POTENTIAL ADVERSE ENVIRONMENTAL IMPACTS

*Instructions:* Consider direct and indirect adverse impacts, including those arising from general construction and operations. For every answer explain why significant adverse impact is considered likely or unlikely to result.

Also, state the source of information or other basis for the answers supplied. If the source of the information, in part or in full, is not listed in the ENF, the preparing officer will be assumed to be the source of the information. Such environmental information should be acquired at least in part by field inspection.

#### A. Open Space and Recreation

1. Might the project affect the condition, use or access to any open space and/or recreation area? Yes X No \_\_\_\_\_

*Explanation and Source:*

A pedestrian ramp will provide access to the riverbank on the Boston side.

During construction, a staging area will be required which may have to be on the riverbank. - However, after construction the open space will be returned to original condition. The recreation areas contiguous to the construction site will be restored to their original condition.

#### B. Historic Resources

1. Might any site or structure of historic significance be affected by the project? Yes X No \_\_\_\_\_

*Explanation and Source:*

The existing structure is listed on the National Register of Historic Sites - A Section 106 consultation will be conducted with M.H.C.

2. Might any archaeological site be affected by the project? Yes \_\_\_\_\_ No X

*Explanation and Source:*

No excavation on river banks or in river.

#### C. Ecological Effects

1. Might the project significantly affect fisheries or wildlife, especially any rare or endangered species? Yes \_\_\_\_\_ No X

*Explanation and Source:*

There will be no construction or excavation in the river.

2. Might the project significantly affect vegetation, especially any rare or endangered species of plant? Yes \_\_\_\_\_ No X

(Estimate approximate number of mature trees to be removed: 0)

*Explanation and Source:*

The only affect will be during construction and no trees will be disturbed - all grassed areas will be restored.

3. Might the project alter or affect flood hazard areas, inland or coastal wetlands (e.g., estuaries, marshes, sand dunes and beaches, ponds, streams, rivers, fish runs, or shellfish beds)? Yes \_\_\_\_\_ No X

*Explanation and Source:*

4. Might the project affect shoreline erosion or accretion at the project site, downstream or in nearby coastal areas? Yes \_\_\_\_\_ No X

*Explanation and Source:*

5. Might the project involve other geologically unstable areas? Yes \_\_\_\_\_ No X

*Explanation and Source:*

#### D. Hazardous Substances

1. Might the project involve the use, transportation, storage, release, or disposal of potentially hazardous substances?

Yes \_\_\_\_\_ No X

*Explanation and Source:*

Resource Conservation and Use

1. Might the project affect or eliminate land suitable for agricultural or forestry production?

Yes \_\_\_\_\_ No X

(Describe any present agricultural land use and farm units affected.)

Explanation and Source:

2. Might the project directly affect the potential use or extraction of mineral or energy resources (e.g., oil, coal, sand & gravel, ores)? Yes X No \_\_\_\_\_

Explanation and Source:

An amount of sand and aggregate will be required for the making of concrete.

3. Might the operation of the project result in any increased consumption of energy? Yes X No \_\_\_\_\_

Explanation and Source:

(If applicable, describe plans for conserving energy resources.)

During construction only for equipment.

Water Quality and Quantity

1. Might the project result in significant changes in drainage patterns? Yes \_\_\_\_\_ No X

Explanation and Source:

2. Might the project result in the introduction of pollutants into any of the following:

- (a) Marine Waters ..... Yes \_\_\_\_\_ No X
- (b) Surface Fresh Water Body ..... Yes X No \_\_\_\_\_
- (c) Ground Water ..... Yes \_\_\_\_\_ No X

Explain types and quantities of pollutants.

During demolition and construction, some debris may fall into the river. Every effort will be made to minimize this in the contract specifications.

3. Will the project generate sanitary sewage? Yes \_\_\_\_\_ No X

If Yes, Quantity: \_\_\_\_\_ gallons per day

Disposal by: (a) Onsite septic systems ..... Yes \_\_\_\_\_ No \_\_\_\_\_

(b) Public sewerage systems ..... Yes \_\_\_\_\_ No \_\_\_\_\_

(c) Other means (describe) \_\_\_\_\_

4. Might the project result in an increase in paved or impervious surface over an aquifer recognized as an important present or future source of water supply? Yes \_\_\_\_\_ No X

Explanation and Source:

5. Is the project in the watershed of any surface water body used as a drinking water supply?

Yes \_\_\_\_\_ No X

Are there any public or private drinking water wells within a 1/2-mile radius of the proposed project?

Yes \_\_\_\_\_ No X

Explanation and Source:

6. Might the operation of the project result in any increased consumption of water? Yes \_\_\_\_\_ No X

Approximate consumption \_\_\_\_\_ gallons per day. Likely water source(s) \_\_\_\_\_

Explanation and Source:

7. Does the project involve any dredging? Yes \_\_\_\_\_ No X

If Yes, indicate:

Quantity of material to be dredged \_\_\_\_\_

Quality of material to be dredged \_\_\_\_\_

Proposed method of dredging \_\_\_\_\_

Proposed disposal sites \_\_\_\_\_

Proposed season of year for dredging \_\_\_\_\_

Explanation and Source:

Quality

1. Might the project affect the air quality in the project area or the immediately adjacent area?

Yes X No \_\_\_\_\_

Describe type and source of any pollution emission from the project site. equipment exhaust

Construction equipment exhaust.

Rerouting of traffic during construction may cause some change in air quality.

2. Are there any sensitive receptors (e.g., hospitals, schools, residential areas) which would be affected by any pollution emissions caused by the project, including construction dust? Yes X No \_\_\_\_\_

Explanation and Source:

The only school is Massachusetts Institute of Technology. Every effort to minimize the harm will be addressed in the EA/EIR.

3. Will access to the project area be primarily by automobile? Yes X No \_\_\_\_\_

Describe any special provisions now planned for pedestrian access, carpooling, buses and other mass transit.

A pedestrian ramp to the riverbank on the Boston end will be added.

There will be no additional traffic added due to the improvement.

H. Noise

1. Might the project result in the generation of noise? Yes X No \_\_\_\_\_

Explanation and Source:

(Include any source of noise during construction or operation, e.g., engine exhaust, pile driving, traffic.)

Construction equipment.

Rerouting of traffic during construction may cause a change in noise in some areas.

2. Are there any sensitive receptors (e.g., hospitals, schools, residential areas) which would be affected by any noise caused by the project? Yes X No \_\_\_\_\_

Explanation and Source:

Residential areas, Massachusetts Institute of Technology

## I. Solid Waste

1. Might the project generate solid waste? Yes X No \_\_\_\_\_

*Explanation and Source:*

(Estimate types and approximate amounts of waste materials generated, e.g., industrial, domestic, hospital, sewage sludge, construction debris from demolished structures.)

The existing superstructure will be demolished and disposed of at designated sites not yet determined.

## J. Aesthetics

1. Might the project cause a change in the visual character of the project area or its environs?  
Yes \_\_\_\_\_ No X

*Explanation and Source:*

The bridge will be replaced as closely as possible "in kind".

2. Are there any proposed structures which might be considered incompatible with existing adjacent structures in the vicinity in terms of size, physical proportion and scale, or significant differences in land use?  
Yes \_\_\_\_\_ No X

*Explanation and Source:*

3. Might the project impair visual access to waterfront or other scenic areas? Yes \_\_\_\_\_ No X

*Explanation and Source:*

## K. Wind and Shadow

1. Might the project cause wind and shadow impacts on adjacent properties? Yes \_\_\_\_\_ No X

*Explanation and Source:*

IV. CONSISTENCY WITH PRESENT PLANNING

A. Describe any known conflicts or inconsistencies with current federal, state and local land use, transportation, open space, recreation and environmental plans and policies. Consult with local or regional planning authorities where appropriate.

All agencies, City, State and Federal are in agreement with the proposed action.

V. FINDINGS AND CERTIFICATION

A. The notice of intent to file this form will be published in the following newspaper(s):

(Name) Boston Globe (Date) 12/12/83
Cambridge Chronicle 12/12/83

B. This form has been circulated to all agencies and persons as required by Appendix B.

12/8/83 [Signature]
Date Signature of Responsible Officer or Project Proponent

Robert M. Horigan
Name (print or type)
Address 100 N. Beacon St Boston, Mass. 02114
Telephone Number 127-4749

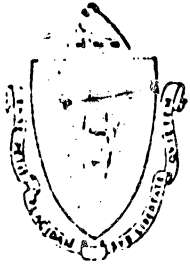
[Signature] 12/8/83
Chief Engr. MDPV

12-8-83 [Signature]
Date Signature of person preparing ENF (if different from above)

[Signature] 12/8/83
Commissioner MDPV

[Signature]
Kenneth E. Kruckemeyer
Assoc. Comm. Hwy. Eng.
Address 121 Beach Street Boston, MA 02111
Telephone Number 426-4960

Robert M. Fitzgerald, P.E.
Name (print or type)
Address 121 Beach Street Boston, MA 02111
Telephone Number 426-4960



*The Commonwealth of Massachusetts*

RECEIVED BY  
OFFICE OF CITY CLERK  
*Executive Office of Transportation and Construction*

DEC 19 10 05 AM '83  
*Department of Public Works*  
CAMBRIDGE, MASS.

*Office of the Commissioner*

*100 Nashua Street, Boston 02114*

In accordance with Chapter 30, Section 62 - 62H of the Massachusetts General Law and Sections 6.1, 6.2 and Appendix B of the Regulations of the Executive Office of Environmental Affairs, the Department submits for your review and comments an Environmental Notification Form for the following proposed project:

Harvard Bridge Reconstruction

Cities of Boston and Cambridge

Please forward any comments you may wish to have considered to the Department of Public Works, Environmental Section. Also submit a copy of your comments to Secretary James S. Hoyte, Executive Office of Environmental Affairs, 100 Cambridge Street, Boston, Massachusetts 02202.

Very truly yours,

*Robert T. Tierney*  
ROBERT T. TIERNEY  
COMMISSIONER

APPENDIX A  
COMMONWEALTH OF MASSACHUSETTS  
EXECUTIVE OFFICE OF ENVIRONMENTAL AFFAIRS

ENVIRONMENTAL NOTIFICATION FORM

I. SUMMARY

A. Project Identification

1. Project Name Harvard Bridge Reconstruction

2. Project Proponent M.D.P.W. (M.D.C.)

Address 100 Nashua Street

Boston, Massachusetts 02114

B. Project Description: (City/Town(s)) Boston-Cambridge

1. Location within city/town or street address Massachusetts Avenue over the Charles River

2. Est. Commencement Date: 6-85 Est. Completion Date: 3-87

Approx. Cost \$ 6,500,000.00 Current Status of Project Design: 10 % Complete

C. Narrative Summary of Project

Describe project and give a description of the general project boundaries and the present use of the project area. (If necessary, use back of this page to complete summary).

The purpose of the proposed project is to replace the existing Harvard Bridge. The existing structure has been studied for several years and was recently partially closed due to a structural deficiency. As a result, only one lane is currently operating in each direction. The aim of the project is to remove the existing superstructure and replace it as closely as possible "in kind". The current cross-section provides the capability of two lanes in each direction plus a sidewalk on each side. The proposed Structure would not change this.

Existing traffic circulation on each end of the bridge would remain the same with the exception of the possible elimination of the ramp from the Boston Bound lane to Storrow Drive eastbound. In addition, a new pedestrian/handicapped ramp would be provided on the Boston side to allow access to the riverbank.

Do not write in this space

Copies of this may be obtained from:

Name: Thomas J. Hyland

Firm/Agency: Mass. Dept. Public Works

Address: 100 Nashua Street

Phone No. 727-4740

Use This Page to Complete Narrative, if necessary.

This project is one which is categorically included and therefore automatically requires preparation of an Environmental Impact Report :

YES X NO

D. Scoping (Complete Sections II and III first, before completing this section.)

1. Check those areas which would be important to examine in the event that an EIR is required for this project. This information is important so that significant areas of concern can be identified as early as possible, in order to expedite analysis and review.

	Construc- tion Impacts	Long Term Impacts		Construc- tion Impacts	Long Term Impacts
Open Space & Recreation .....	X		Mineral Resources .....		
Historical .....		X	Energy Use .....		X
Archaeological .....			Water Supply & Use .....		
Fishes & Wildlife .....			Water Pollution .....	X	
Vegetation, Trees .....			Air Pollution .....	X	
Other Biological Systems .....			Noise .....	X	
Wetlands .....			Traffic .....	X	
Estuarine Wetlands or Beaches .....			Solid Waste .....		
Seismic Hazard Areas .....			Aesthetics .....	X	
Chemicals, Hazardous Substances, High Risk Operations .....			Wind and Shadow .....		
Geologically Unstable Areas .....			Growth Impacts .....		
Cultural Land .....			Community/Housing and the Built Environment .....		
Other (Specify) .....					

2. List the alternatives which you would consider to be feasible in the event an EIR is required.

Build  
No Build

E. Has this project been filed with EOE A before? Yes \_\_\_\_\_ No X  
 If Yes: EOE A No. \_\_\_\_\_ EOE A Action? \_\_\_\_\_

F. Does this project fall under the jurisdiction of NEPA? Yes X No \_\_\_\_\_  
 If Yes, which Federal Agency? FHWA NEPA Status? Envir. Assessment

G. List the State or Federal agencies from which permits will be sought:

Agency Name	Type of Permit
-------------	----------------

H. Will an Order of Conditions be required under the provisions of the Wetlands Protection Act (Chap. 131, Section 40)?  
 Yes X No \_\_\_\_\_

DEQE File No., if applicable: \_\_\_\_\_

I. List the agencies from which the proponent will seek financial assistance for this project:

Agency Name	Funding Amount
-------------	----------------

M.D.P.W:	20%
F.H.W.A.	80%

## II. PROJECT DESCRIPTION

A. Include an original 8 1/2 x 11 inch or larger section of the most recent U.S.G.S. 1:24,000 scale topographic map with the project area location and boundaries clearly shown. Include multiple maps if necessary for large projects. Include other maps, diagrams or aerial photos if the project cannot be clearly shown at U.S.G.S. scale. If available, attach a plan sketch of the proposed project.

B. State total area of project: 4± acres

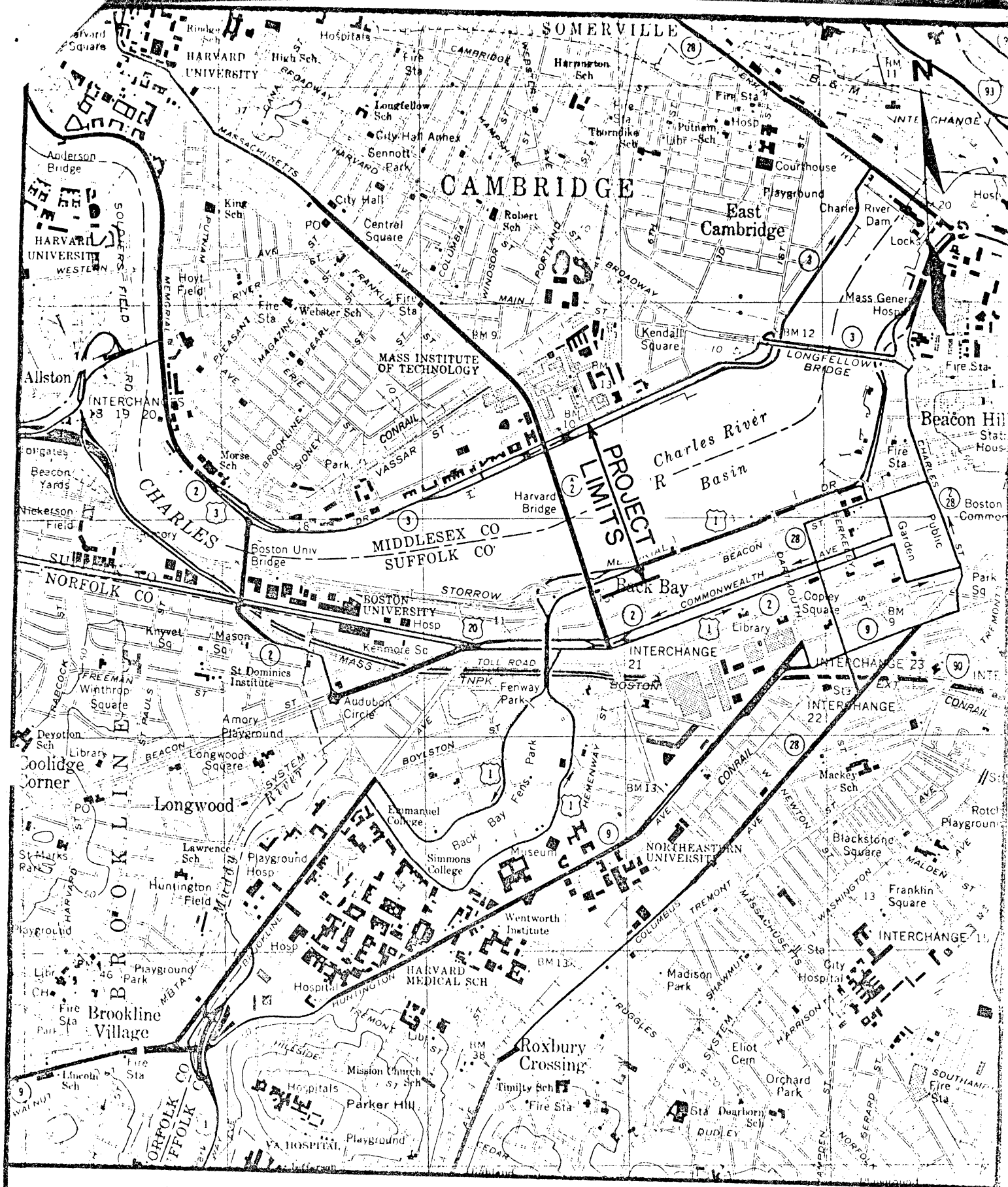
Estimate the number of acres (to the nearest 1/10 acre) directly affected that are currently:

1. Developed	<u>4±</u> acres	4. Floodplain	<u>0</u> acres
2. Open Space/Woodlands/Recreation	<u>0</u> acres	5. Coastal Area	<u>0</u> acres
3. Wetlands	<u>0</u> acres	6. Productive Resources	
		Agriculture	<u>0</u> acres
		Forestry	<u>0</u> acres
		Mineral Products	<u>0</u> acres

C. Provide the following dimensions, if applicable:

Length in miles	<u>.42</u>	Number of Housing Units	<u>0</u>	Number of Stories	<u>0</u>
Number of Parking Spaces	<u>0</u>	Existing	<u>0</u>	Immediate Increase Due to Project	<u>0</u>
Vehicle Trips to Project Site	<u>37,000</u>	1980 ADT	<u>    </u>		
Estimated Vehicle Trips past project site	<u>37,000</u>				

D. If the proposed project will require any permit for access to local or state highways, please attach a sketch showing the location of the proposed driveway(s) in relation to the highway and to the general development plan; identifying all local and state highways abutting the development; and indicating the number of lanes, pavement width, median strips and adjacent driveways on each abutting highway, and indicating the distance to the nearest intersection.



# HARVARD BRIDGE RECONSTRUCTION

## LOCATION MAP

Scale: 1" = 2,000'

### ASSESSMENT OF POTENTIAL ADVERSE ENVIRONMENTAL IMPACTS

*Instructions: Consider direct and indirect adverse impacts, including those arising from general construction and operations. For every answer explain why significant adverse impact is considered likely or unlikely to result.*

*Also, state the source of information or other basis for the answers supplied. If the source of the information, in part or in full, is not listed in the ENF, the preparing officer will be assumed to be the source of the information. Such environmental information should be acquired at least in part by field inspection.*

#### A. Open Space and Recreation

1. Might the project affect the condition, use or access to any open space and/or recreation area? Yes X No       

*Explanation and Source:*

A pedestrian ramp will provide access to the riverbank on the Boston side.

During construction, a staging area will be required which may have to be on the riverbank. - However, after construction the open space will be returned to original condition. The recreation areas contiguous to the construction site will be restored to their original condition.

#### B. Historic Resources

1. Might any site or structure of historic significance be affected by the project? Yes X No       

*Explanation and Source:*

The existing structure is listed on the National Register of Historic Sites - A Section 106 consultation will be conducted with M.H.C.

2. Might any archaeological site be affected by the project? Yes        No X

*Explanation and Source:*

No excavation on river banks or in river.

#### 2. Ecological Effects

1. Might the project significantly affect fisheries or wildlife, especially any rare or endangered species? Yes        No X

*Explanation and Source:*

There will be no construction or excavation in the river.

2. Might the project significantly affect vegetation, especially any rare or endangered species of plant?  
Yes \_\_\_\_\_ No X

(Estimate approximate number of mature trees to be removed: 0)

*Explanation and Source:*

The only affect will be during construction and no trees will be disturbed - all grassed areas will be restored.

3. Might the project alter or affect flood hazard areas, inland or coastal wetlands (e.g., estuaries, marshes, sand dunes and beaches, ponds, streams, rivers, fish runs, or shellfish beds)? Yes \_\_\_\_\_ No X

*Explanation and Source:*

4. Might the project affect shoreline erosion or accretion at the project site, downstream or in nearby coastal areas? Yes \_\_\_\_\_ No X

*Explanation and Source:*

5. Might the project involve other geologically unstable areas? Yes \_\_\_\_\_ No X

*Explanation and Source:*

#### D. Hazardous Substances

1. Might the project involve the use, transportation, storage, release, or disposal of potentially hazardous substances?

Yes \_\_\_\_\_ No X

*Explanation and Source:*

Resource Conservation and Use

1. Might the project affect or eliminate land suitable for agricultural or forestry production?

Yes \_\_\_\_\_ No X

(Describe any present agricultural land use and farm units affected.)

Explanation and Source:

2. Might the project directly affect the potential use or extraction of mineral or energy resources (e.g., oil, coal, sand & gravel, ores)? Yes X No \_\_\_\_\_

Explanation and Source:

An amount of sand and aggregate will be required for the making of concrete.

3. Might the operation of the project result in any increased consumption of energy? Yes X No \_\_\_\_\_

Explanation and Source:

(If applicable, describe plans for conserving energy resources.)

During construction only for equipment.

Water Quality and Quantity

1. Might the project result in significant changes in drainage patterns? Yes \_\_\_\_\_ No X

Explanation and Source:

2. Might the project result in the introduction of pollutants into any of the following:

- (a) Marine Waters ..... Yes \_\_\_\_\_ No X
- (b) Surface Fresh Water Body ..... Yes X No \_\_\_\_\_
- (c) Ground Water ..... Yes \_\_\_\_\_ No X

Explain types and quantities of pollutants.

During demolition and construction, some debris may fall into the river. Every effort will be made to minimize this in the contract specifications.

3. Will the project generate sanitary sewage? Yes \_\_\_\_\_ No X

If Yes, Quantity: \_\_\_\_\_ gallons per day

- Disposal by: (a) Onsite septic systems ..... Yes \_\_\_\_\_ No \_\_\_\_\_  
 (b) Public sewerage systems ..... Yes \_\_\_\_\_ No \_\_\_\_\_  
 (c) Other means (describe) \_\_\_\_\_

4. Might the project result in an increase in paved or impervious surface over an aquifer recognized as an important present or future source of water supply? Yes \_\_\_\_\_ No X

Explanation and Source:

5. Is the project in the watershed of any surface water body used as a drinking water supply?

Yes \_\_\_\_\_ No X

Are there any public or private drinking water wells within a 1/2-mile radius of the proposed project?

Yes \_\_\_\_\_ No X

Explanation and Source:

6. Might the operation of the project result in any increased consumption of water? Yes \_\_\_\_\_ No X

Approximate consumption \_\_\_\_\_ gallons per day. Likely water source(s) \_\_\_\_\_

Explanation and Source:

7. Does the project involve any dredging? Yes \_\_\_\_\_ No X

If Yes, indicate:

- Quantity of material to be dredged \_\_\_\_\_
- Quality of material to be dredged \_\_\_\_\_
- Proposed method of dredging \_\_\_\_\_
- Proposed disposal sites \_\_\_\_\_
- Proposed season of year for dredging \_\_\_\_\_

Explanation and Source:

## Quality

1. Might the project affect the air quality in the project area or the immediately adjacent area?

Yes  No

Describe type and source of any pollution emission from the project site. equipment exhaust

Construction equipment exhaust.

Rerouting of traffic during construction may cause some change in air quality.

2. Are there any sensitive receptors (e.g., hospitals, schools, residential areas) which would be affected by any pollution emissions caused by the project, including construction dust? Yes  No

*Explanation and Source:*

The only school is Massachusetts Institute of Technology. Every effort to minimize the harm will be addressed in the EA/EIR.

3. Will access to the project area be primarily by automobile? Yes  No

Describe any special provisions now planned for pedestrian access, carpooling, buses and other mass transit.

A pedestrian ramp to the riverbank on the Boston end will be added.

There will be no additional traffic added due to the improvement.

## H. Noise

1. Might the project result in the generation of noise? Yes  No

*Explanation and Source:*

(Include any source of noise during construction or operation, e.g., engine exhaust, pile driving, traffic.)

Construction equipment.

Rerouting of traffic during construction may cause a change in noise in some areas.

2. Are there any sensitive receptors (e.g., hospitals, schools, residential areas) which would be affected by any noise caused by the project? Yes  No

*Explanation and Source:*

Residential areas, Massachusetts Institute of Technology

## I. Solid Waste

1. Might the project generate solid waste? Yes
- X
- No \_\_\_\_\_

*Explanation and Source:*

(Estimate types and approximate amounts of waste materials generated, e.g., industrial, domestic, hospital, sewage sludge, construction debris from demolished structures.)

The existing superstructure will be demolished and disposed of at designated sites not yet determined.

## J. Aesthetics

1. Might the project cause a change in the visual character of the project area or its environs?

Yes \_\_\_\_\_ No X*Explanation and Source:*

The bridge will be replaced as closely as possible "in kind".

2. Are there any proposed structures which might be considered incompatible with existing adjacent structures in the vicinity in terms of size, physical proportion and scale, or significant differences in land use?

Yes \_\_\_\_\_ No X*Explanation and Source:*

3. Might the project impair visual access to waterfront or other scenic areas? Yes \_\_\_\_\_ No
- X

*Explanation and Source:*

## K. Wind and Shadow

1. Might the project cause wind and shadow impacts on adjacent properties? Yes \_\_\_\_\_ No
- X

*Explanation and Source:*

IV. CONSISTENCY WITH PRESENT PLANNING

A. Describe any known conflicts or inconsistencies with current federal, state and local land use, transportation, open space, recreation and environmental plans and policies. Consult with local or regional planning authorities where appropriate.

All agencies, City, State and Federal are in agreement with the proposed action.

V. FINDINGS AND CERTIFICATION

A. The notice of intent to file this form will be published in the following newspaper(s):

(Name) Boston Globe (Date) 12/12/83
Cambridge Chronicle 12/12/83

B. This form has been circulated to all agencies and persons as required by Appendix B.

12/8/83 [Signature]
Date Signature of Responsible Officer or Project Proponent

Robert M. Horigan
Name (print or type)

Address 100 Natchua St
Boston, Mass. 02114
Telephone Number 727-4749

[Signature] 12/8/83
Date
Chief Eng. MDPH

12-8-83
Date

[Signature]
Signature of person preparing ENF (if different from above)

Robert M. Fitzgerald, P.E.
Name (print or type)

Address 121 Beach Street
Boston, MA 02111
Telephone Number 426-4960

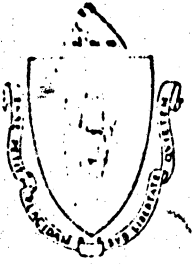
[Signature] 12/8/83
Date
Commissioner MDPH

[Signature]
Kenneth E. Kruckemeyer
Comm. Hwy. Eng.

RECEIVED BY  
OFFICE OF CITY CLERK

DEC 19 10 15 AM '83

CAMBRIDGE, MASS.



*The Commonwealth of Massachusetts*

RECEIVED BY  
OFFICE OF CITY CLERK  
*Executive Office of Transportation and Construction*

DEC 19 10 05 AM '83  
*Department of Public Works*  
CAMBRIDGE, MASS.

*Office of the Commissioner*

*100 Nashua Street, Boston 02114*

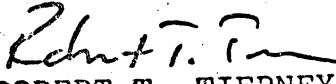
In accordance with Chapter 30, Section 62 - 62H of the Massachusetts General Law and Sections 6.1, 6.2 and Appendix B of the Regulations of the Executive Office of Environmental Affairs, the Department submits for your review and comments an Environmental Notification Form for the following proposed project:

Harvard Bridge Reconstruction

Cities of Boston and Cambridge

Please forward any comments you may wish to have considered to the Department of Public Works, Environmental Section. Also submit a copy of your comments to Secretary James S. Hoyte, Executive Office of Environmental Affairs, 100 Cambridge Street, Boston, Massachusetts 02202.

Very truly yours,

  
ROBERT T. TIERNEY  
COMMISSIONER

705

Comm. from Robert T. Tierney, Commissioner,  
Mass. Exec. Office of Transportation & Con-  
struction, Dept. of Public Works Re: copy  
of an environmental notification form from  
the MDC Re: reconstruction of the Harvard  
Bridge.

12/21/83  
copy sent to the Conservation  
Commission & City Manager  
copy sent to Traffic Director for  
report, with

In City Council,

December 19, 1983

Placed on File  
Copy to City  
and  
Cons. Comm  
Traffic Dept for Report