

In City Council

March 6, 1972

ORDERED:

That the Order adopted on January 31, 1972 appropriating the sum of fifteen million two hundred thousand dollars (\$15,200,000.00) for sewerage and drainage construction be and hereby is amended to read as follows:

"ORDERED:

That in addition to the amounts previously appropriated the sum of Eleven Million Four Hundred Thousand Dollars (\$11,400,000.00) be and hereby is appropriated for the construction of sewers and sewerage systems and the sum of Three Million Eight Hundred Thousand Dollars (\$3,800,000.00) be and hereby is appropriated for the construction of surface drains, sewers and sewerage systems, all in connection with the following: (1) Construction Program directed towards elimination of existing combined sewerage systems, reducing substantially combined sewage overflows to the Charles River and Alewife Brook; (2) Elimination of cross connections, replacing of missing manhole separation plates, and construction of new sewers or storm drains required to complete separation; and (3) Elimination or reduction of the size of some M. D. C. connections, and it is further

"ORDERED:

That to meet such appropriation of Eleven Million Four Hundred Thousand Dollars (\$11,400,000.00) the City Treasurer with the approval of the City Manager is hereby authorized to borrow the sum of Eleven Million Four Hundred Thousand Dollars (\$11,400,000.00) under and pursuant to General Laws, Chapter 44, Section 8 (15), as amended and supplemented, by the issuance at one time or from time to time of bonds or notes of the City, and to meet said appropriation of Three Million Eight Hundred Thousand Dollars (\$3,800,000.00), the sum of Eighty Thousand Dollars (\$80,000.00) shall be raised in the current tax levy and the City Treasurer with the approval of the City Manager is hereby authorized to borrow the sum of Three Million Seven Hundred Twenty Thousand Dollars (\$3,720,000.00) under and pursuant to General Laws, Chapter 44, Section 7 (1),

(Order continued)

In City Council  
March 6, 1972

as amended and supplemented, by the issuance at one time or from time to time of bonds or notes of the City. Each issue of the bonds or notes authorized by this order shall be payable in not more than thirty (30) years from its date; the City Manager, City Treasurer and City Auditor be and hereby are authorized and instructed to sign and execute said bonds or notes and all transfers and exchanges of the same in the manner directed by the General Laws and the Ordinances of the City of Cambridge; and the City Treasurer be and hereby is directed to bargain and sell and hereby is authorized to transfer and exchange said bonds or notes."

In City Council March 20, 1972.

Adopted by a yea and nay vote: Yeas 9; Nays 0; Absent 0.

ATTEST:- Paul E. Healy, City Clerk.

In City Council

March 6, 1972

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That the Order adopted on January 31, 1972 appropriating the sum of fifteen million two hundred thousand dollars (\$15,200,000.00) for sewerage and drainage construction be and hereby is amended to read as follows:

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In City Council March 20, 1972.

Adopted by a yea and nay vote: Yeas 9; Nays 0; Absent 0.

ATTEST:- Paul E. Healy, City Clerk.

FIRST PUBLICATION NO. 1740.

In City Council

March 6, 1972

ORDERED:

That the Order adopted on January 31, 1972 appropriating the sum of fifteen million two hundred thousand dollars (\$15,200,000.00) for sewerage and drainage construction be and hereby is amended to read as follows:

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(Order continued)

In City Council

March 6, 1972

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Passed to a second reading at the City Council meeting held on March 6, 1972 and after March 19, 1972 the question may be on adoption.

ATTEST:- Paul E. Healy, City Clerk.

FIRST PUBLICATION NO. 1740.

In City Council

March 6, 1972

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(Order continued)

In City Council

March 6, 1972

as amended and supplemented, by the issuance at one time or from time to time of bonds or notes of the City. Each issue of the bonds or notes authorized by this order shall be payable in not more than thirty (30) years from its date; the City Manager, City Treasurer and City Auditor be and hereby are authorized and instructed to sign and execute said bonds or notes and all transfers and exchanges of the same in the manner directed by the General Laws and the Ordinances of the City of Cambridge; and the City Treasurer be and hereby is directed to bargain and sell and hereby is authorized to transfer and exchange said bonds or notes."

Passed to a second reading at the City Council meeting held on March 6, 1972 and after March 19, 1972 the question may be on adoption.

ATTEST:- Paul E. Healy, City Clerk.

# City of Cambridge

IN CITY COUNCIL

January 17, 1972

ORDERED:-

That in addition to the amounts previously appropriated the sum of fifteen million two hundred thousand dollars (\$15,200,000.00) be and hereby is appropriated for the following purpose: 1) Construction Program directed towards elimination of existing combined sewerage systems, reducing substantially combined sewage overflows to the Charles River and Alewife Brook; 2) Elimination of cross connections, replacing of missing manhole separation plates, and construction of new sewers or storm drains required to complete separation, and 3) Elimination or reduction of the size of some M.D.C. connections, under the provisions of General Laws, Chapter 40, Section 5 and it is further

ORDERED:-

That a City debt be created in the amount of Fifteen Million Two Hundred Thousand Dollars (\$15,200,000.00) under the authority of General Laws, Chapter 44, Section 8 (15), as amended, and from time to time as the City Treasurer may deem necessary, bonds of the City be issued not exceeding in the aggregate said sum of Fifteen Million Two Hundred Thousand Dollars (\$15,200,000.00) either in the form of registered or coupon bonds, which shall bear on their face the words "Cambridge Sewerage and Drainage Program". Indebtedness under the order shall be in excess of the statutory limit, said bonds to be payable in accordance with the provisions of General Laws, Chapter 44, Section 19, so that the whole loan shall be paid in not more than thirty years from the date or dates of the bonds issued; that the City Manager, City Treasurer and City Auditor be and hereby are authorized and instructed to sign and execute said bonds and all transfers and exchanges of same in the manner directed by the Ordinances of the City of Cambridge and that the City Treasurer be and hereby is directed to bargain and sell and hereby is authorized to transfer and exchange the same.

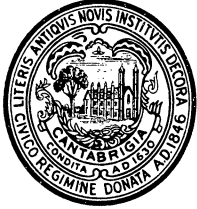
LOAN ORDER - \$15,200,000.00

# City of Cambridge

MASSACHUSETTS

In City Council January 31, 19 72

		YEA	NAY	ABSENT	
	Mr. Clinton	✓			
	Mr. Danehy	✓			
	Mr. Duehay	✓			
	Mrs. Graham	✓			
	Mr. Moncreiff	✓			
	Mr. Owens	✓			
	Mr. Sullivan	✓			
	Mr. Vellucci	✓			
	Mayor Ackermann	✓			
		9	0	0	



## CITY OF CAMBRIDGE

CAMBRIDGE, MASSACHUSETTS 02139

Tel. 876-6800

EXECUTIVE DEPARTMENT

JOHN H. CORCORAN  
City Manager

ROBERT J. LEBLANC  
Assistant to the City Manager

January 17, 1972

To the Honorable, the City Council:

A five year construction program of improvements to the sewerage and drainage facilities to be undertaken from 1972 through 1976 at a cost of 15.2 million dollars has been proposed for the City of Cambridge. This program has been outlined in detail in a comprehensive report prepared for the City in August, 1968. The proposed program for the City of Cambridge is part of the overall program by the Metropolitan District Commission to clean up the Charles River. The M.D.C. program is presently under construction. In order to achieve the desired improvements in water quality, the City of Cambridge must also make major changes in its sewerage systems.

The program proposed for the City of Cambridge consists of separation of combined sewer systems within the City to the extent necessary to reduce combined sewage flows to within the capacity of the relief sewers presently under construction by the Metropolitan District Commission.

At the present time the City of Cambridge, like many other older American cities, has extensive areas with combined sewers. A combined sewerage system is one in which storm drainage from roof drains and catch basins is carried in the same pipes as sanitary sewage. The peak sanitary flow in combined sewers may vary up to 2 to 3 times the average sanitary flow. On the other hand, storm drainage flow may increase the total flow in combined sewers up to 20 to 30 times the average dry weather sanitary flow. The excessive inflow of storm drainage overloads combined sewers and causes overflows from the combined sewerage systems, resulting in pollution of the Charles River and Alewife Brook. Furthermore, there are many areas within the City of Cambridge where sanitary flows discharge continuously to the storm drains which in turn discharge directly to the Charles River and Alewife Brook.

The proposed program for the City of Cambridge will eliminate these direct, continuous discharges of sewage to the Charles River and Alewife Brook, and will limit the inflow of storm drainage to within the design capacities of the Metropolitan District Relief Sewers.

If the Metropolitan District Commission Relief Sewers were not built it would have been necessary for the City of Cambridge to completely separate the sewage and storm drainage systems at a cost of about 75 million dollars.

To the Honorable, the City Council (cont.)

January 17, 1972

The presently proposed program of partial separation of combined sewerage systems at a cost of 15 million dollars supplements the M.D.C. program. The construction of the South Charles Relief Sewers for overflows from Watertown, Waltham, Brighton and Brookline, as well as the North Charles Relief Sewers for overflows from Cambridge by the M.D.C. allow more combined flow to be taken for treatment to the Deer Island Sewage Treatment Plant and result in less overflow to the Charles River Basin.

The Detention and Chlorination Station near Boston University Bridge was recently constructed at a cost of 4.7 million dollars. The construction of another station near Charles River Dam is proposed at an estimated cost of 13.2 million dollars. These two facilities will provide treatment for the more dilute combined sewage and stormwater flows which cannot be taken to the Deer Island Sewage Treatment Plant.

As a result of the M.D.C. and Cambridge programs, untreated overflows from Cambridge, instead of occurring daily, will be reduced to a frequency of once in five years, only in times of floods. Treated overflows will occur 1 to 2 times per month at the Boston University Bridge Storm Detention and Chlorination Station. Screening, settling, skimming and chlorination facilities at this station insure that overflows will be not only limited in frequency but will also be treated. For overflows to the Detention Station there will be on the average about 40% reduction in biochemical oxygen demand, 60% reduction in suspended solids, 98% reduction in floating solids and grease, and 99% reduction in bacteria.

The removal of the substantial pollution load to the Charles River will allow it to recover from its presently polluted condition.

Aside from pollution relief aspects, the proposed program for the City of Cambridge will have the benefits of a reduction of M.D.C. sewer connections charges, the reduction of maintenance and repair costs for the Cambridge sewerage and drainage system, and will result in elimination of back up and flooding of basements and streets to the benefit of the Cambridge residents.

An Order issued by the Commonwealth of Massachusetts Water Resources Commission to the City of Cambridge requires that the City of Cambridge initiate the construction of its five-year program immediately as described in detail in the Order.

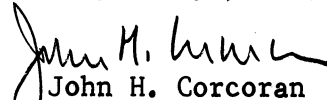
The Charles River Basin and Alewife Brook and the adjacent park areas are used extensively for recreational purposes by Cambridge residents. Unfortunately, pollution from sewage overflows has reduced the usefulness of these areas. Completion of the M.D.C. and Cambridge Construction Programs for pollution relief will return these areas to the high aesthetic value and extensive recreational use.

To the Honorable, the City Council:

January 17, 1972

In view of the foregoing and for the above stated reasons, I urge your favorable consideration of the enclosed orders which will enable us to get under way with this important civic improvement.

Very truly yours,

  
John H. Corcoran  
City Manager

JHC/b

COMMUNICATION  
from the City Manager ~~xxxxxxxx~~  
~~xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx~~

relative to construction program of im-  
provements to the sewerage and drainage  
facilities to be undertaken in the City  
from 1972-1976, together with a proposed  
order requesting that a City debt be  
created in the sum of 15.2 million dollars

January 17, 1972

Manuelff  
Passed to 2nd Reading

# City of Cambridge

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In City Council..... January 31, 1972

The

Committee on Finance

to which was referred a City Debt in the sum of \$15,200,000.00 under authority of General Laws, Chapter 44, Section 8 (15) to be entitled "Cambridge Sewerage and Drainage Program"

REPORTS,

Recommending that the loan order in

the sum of \$15,200,000.00 be approved.

~~Reports,~~

Robert P. Morison

# REPORT

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**Committee on** Finance recommending adoption  
of loan order in the sum of \$15,200,000.00

January 31, 1972.