

SUMMARY OF REASONS FOR THE TEMPORARY  
CLOSING OF WHITE STREET FOR CONSTRUCTION OF  
PORTER SQUARE STATION PILOT TUNNEL

Construction of the Porter Square Station Pilot Tunnel is the last phase of the subsurface exploration program for the design of Porter Square Station and the first phase in the construction of the station.

From its access shaft in White Street, the tunnel will be excavated along the full extent of the future mined excavation for the station platforms. The tunnel will allow the station geotechnical design consultants to view the features of the bedrock under Porter Square and verify their design assumptions. In addition, bidders on the station contract will be able to inspect the tunnel and make their bids with the aid of the information gained from their inspections. When the actual station construction begins, the Pilot Tunnel and its shaft will provide access for the mined portion of the station excavation.

It is anticipated that the Pilot Tunnel will take approximately eight months to construct starting in July of this year. During this time, White Street will be closed to vehicular traffic from Somerville Avenue to a point 167 feet east of Somerville Avenue for use by the Pilot Tunnel Contractor as a work area. The balance of White Street will be made two-way and parking on the street will be prohibited. A turnaround will be provided just east of the portion of White Street that will be closed. During construction, the contractor will be required to maintain a fire lane through his work area. Following construction of the Pilot Tunnel, a lane of White Street will be reopened to vehicular traffic until the start of construction of Porter Square Station at which time the street will be closed once more.

The location of the Pilot Tunnel access shaft was determined by considerations of its use during the construction of the station as well as the Pilot Tunnel. In the construction of a transit station which involves extensive mined excavation such as Porter Square, one of the major problems to be overcome is the excavation and support of the series of mined caverns and their intersections required to accommodate patron access to the train platforms. At Porter Square, these intersections occur a location below White Street and the Porter Square Shopping Center. Placing a shaft adjacent to the starting

Closing of White Street

6 June 1978

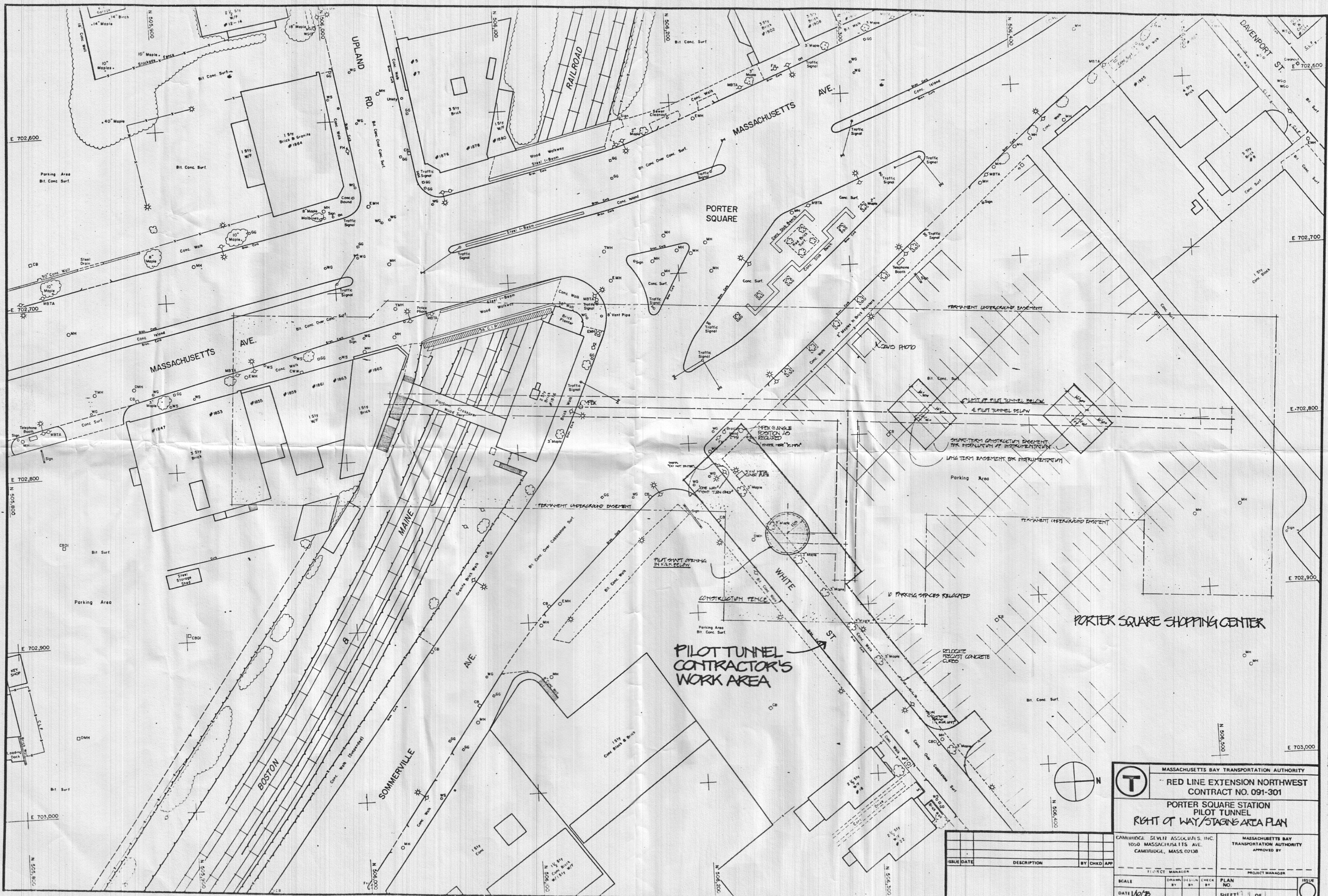
Page 2

point of the series of caverns greatly eases the problems to be encountered during construction of the station. If the shaft for the construction of the Pilot Tunnel had not been located in White Street, a shaft would still have to be located in White Street during station construction for the reasons cited above. By excavating the shaft for the Pilot Tunnel at White Street now, valuable time will be saved on the excavation of the large shaft required for the station excavation.

The use of a portion of White Street as a contractors work area will minimize the impact of the construction activities on property and business in Porter Square as a minimum amount of private land will have to be acquired for construction purposes. In addition, vehicular and pedestrian access to residences and businesses will be maintained in its present form during construction. In terms of the construction of the Pilot Tunnel, the use of White Street as a construction area simplifies the problems of access to the tunnel work and the removal of spoil from the shaft since equipment and trucks will be able to move directly into and out of the work area from Somerville Avenue and White Street.

sd

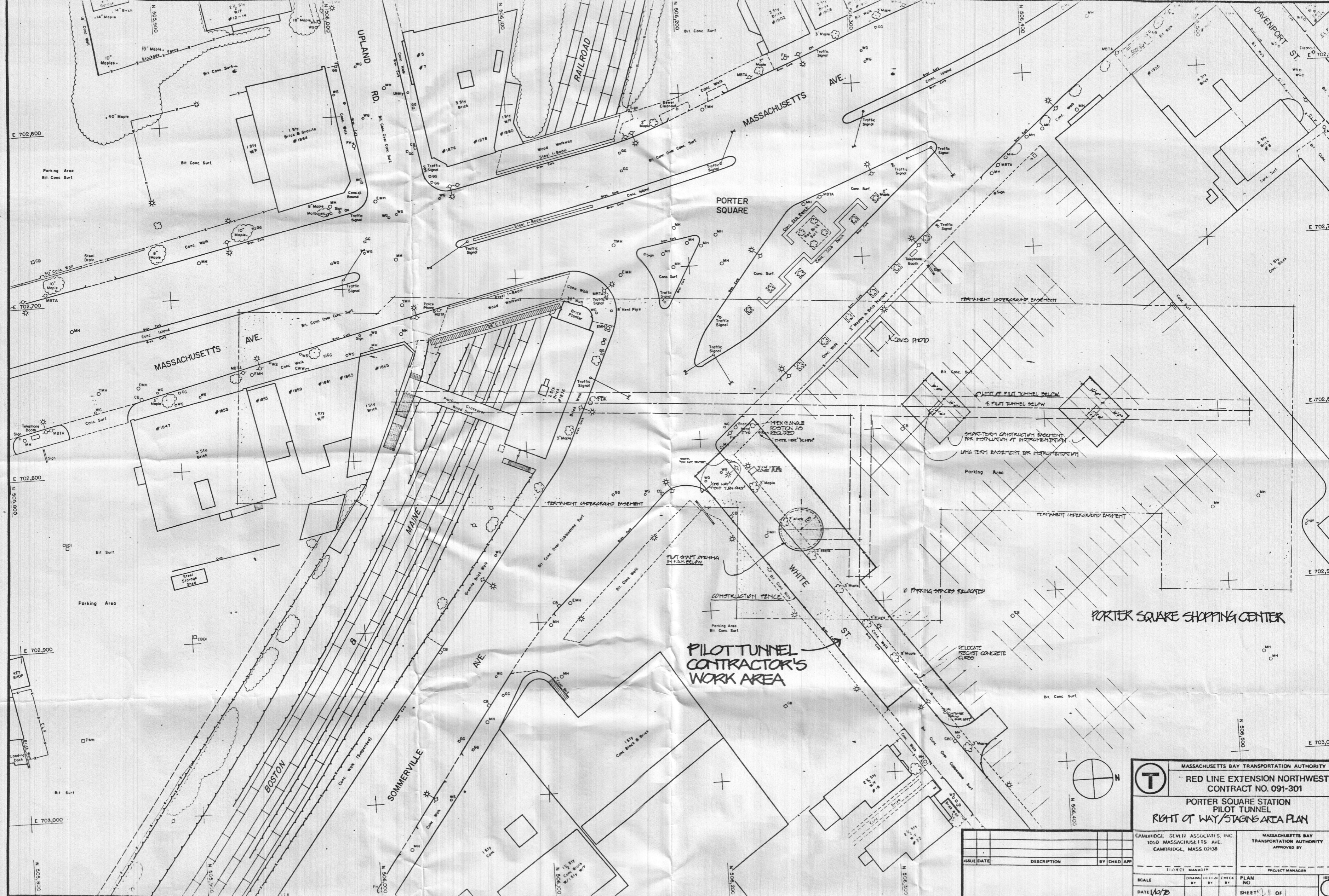




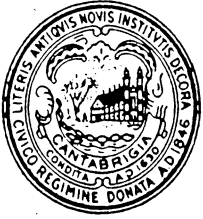
		MASSACHUSETTS BAY TRANSPORTATION AUTHORITY <b>RED LINE EXTENSION NORTHWEST</b> CONTRACT NO. 091-301	
<b>PORTER SQUARE STATION</b> <b>PILOT TUNNEL</b> <b>RIGHT OF WAY/STAGING AREA PLAN</b>			
CAMBRIDGE DESIGN ASSOCIATES, INC. 1000 MASSACHUSETTS AVE. CAMBRIDGE, MASS. 02138		MASSACHUSETTS BAY TRANSPORTATION AUTHORITY APPROVED BY	
PROJECT MANAGER		PROJECT MANAGER	
SCALE DATE 10/13	DRAWN BY CHECK BY	PLAN NO. SHEET 1 OF 1	ISSUE

ISSUE DATE	DESCRIPTION	BY	CHKD	APP





		<b>MASSACHUSETTS BAY TRANSPORTATION AUTHORITY</b> <b>RED LINE EXTENSION NORTHWEST</b> <b>CONTRACT NO. 091-301</b>	
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CAMBRIDGE SEVEN ASSOCIATES, INC. 1050 MASSACHUSETTS AVE. CAMBRIDGE, MASS 02138		MASSACHUSETTS BAY TRANSPORTATION AUTHORITY APPROVED BY	
ISSUE DATE	DESCRIPTION	BY	CHKD APP
SCALE	DRAWN BY	DESIGN BY	CHECK BY
DATE 10/78			
PROJECT MANAGER			ISSUE
SHEET 1 OF 1			



## CITY OF CAMBRIDGE

CAMBRIDGE, MASSACHUSETTS 02139  
Tel. 876-6800

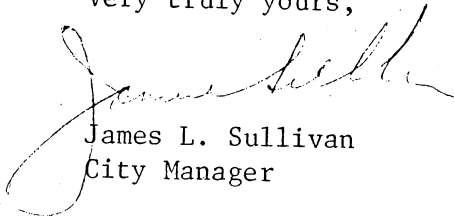
EXECUTIVE DEPARTMENT  
JAMES L. SULLIVAN  
City Manager

June 26, 1978

To the Honorable, the City Council:

I enclose herewith copies of the plans showing the Porter Square Station pilot tunnel, along with a summary of reasons why White Street must be temporarily closed during construction.

Very truly yours,



James L. Sullivan  
City Manager

JLS/mbf  
Enc. 2

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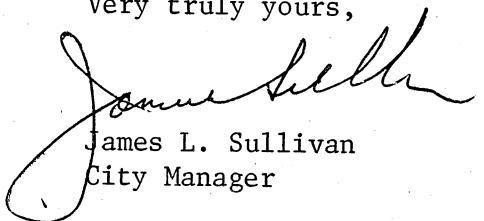
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Very truly yours,



James L. Sullivan  
City Manager

JLS/mbf  
Enc. 2

285

Re: Porter Sq. Station pilot tunnel and  
summary of reasons for the temp. closing of  
White St.

In City Council,  
June 26, 1978

6/24/78

Placed on File