

DEPARTMENT OF ENVIRONMENTAL PROTECTION
RECEIVED
BUREAU OF SEWERS

331.000

APR 17 1982

INTRA-DEPARTMENT
MEMORANDUM

April 17, 1982

TO: JOHN T. FLAHERTY, P.E., CHIEF, DIVISION OF SEWER DESIGN

FROM: FRANK J. OLIVERI, P.E., CHIEF, DIVISION OF SEWER MAINTENANCE

SUBJECT: U.S.S. Intrepid Museum - W.46th Street, Pier 86, Borough
of Manhattan #82-075

Attached for your information is a report for the record prepared by Harry A. Abrams, A.C.E., Engineer In Charge Of Investigations of the Division of Sewer Maintenance, concerning the 6'-6"x8'-6" F.T.R.C. Double Barrel Overflow Sewer at the above referenced location.

It is recommended that approximately 40 linear feet of the overflow sewer be rehabilitated as detailed in Mr. Abram's report.

F. J. Oliveri
FRANK J. OLIVERI, P.E.
Chief
Division of Sewer Maintenance
Bureau of Sewers

Att.

cc: DiMartino
Oliveri
Novotny
Long/Abrams (w/photos)
Saia/Maggiulli
Lau *Rm. 932*
Yee/Lanzano
File

HAA:lg

REPORT FOR THE RECORD

331,000

Re: Intrepid Sea-Air-Space Museum, Pier 86
at 12th Avenue and 46th Street, Manhattan
#82-075

April 17, 1982

In response to a request from John L. DiMartino, P.E., Assistant Commissioner, Director, Bureau of Sewers, an external and internal inspection was performed on the 6'-6"x8'-6" F.T.R.C. Double Barrel Overflow at the above referenced location. On March 15, 1982, a section of the overflow sewer had been exposed at the roof surface in preparation for the construction of the museum structure that will span the sewer.

The external inspection of the exposed section of sewer revealed it to be in sound structural condition with no visible defects. An internal walk-through investigation of the double barrel sewer was made on March 29, 1982 during a period of non-peak flow and low tide. The following observations and defects were noted (refer to sketch).

North Barrel

1. A one inch wide longitudinal crack extends approximately 5 feet in the common wall between barrels near the invert upstream of manhole A.
2. Approximately 5 feet downstream of manhole A, there exists a sealed (brick bulkhead) equalizer between barrels.
3. Approximately 5 feet downstream of manhole B, there exists an open equalizer between barrels.
4. Approximately 30 feet upstream of manhole C, a 4 foot square by one foot high mound of rock and debris was observed.
5. A one inch crack in manhole C extends from the side walls to the roof area. This structural crack shows definite signs of differential settlement.
6. Approximately 5 feet downstream of manhole C, there exists an open equalizer between barrels.
7. The section of sewer approximately 30 feet from manhole C to the outfall is in a deteriorating state with several large cracks evident in the common wall between barrels and side walls.

South Barrel

1. This barrel has been bulkheaded in the vicinity of the tide gate chamber.
2. An accumulation of silt approximately one foot in depth extends from the bulkhead to manhole C.
3. The section of sewer approximately 30 feet from manhole C to the out-

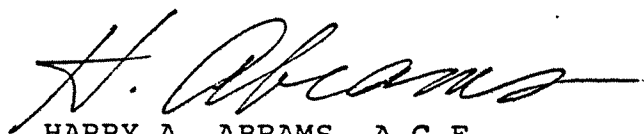
Report For The Record

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fall is in a deteriorating state with several cracks evident in the common wall between barrels and sidewalks (same as north barrel).

In conversations with the Division of Sewer Regulation & Control it has been indicated that no reconstruction of the 6'-6"x8'-6" F.T.R.C. Double Barrel overflow Sewer is planned. Therefore, it is recommended that the Double Barrel Sewer be rehabilitated approximately 10 feet upstream of manhole C to the outfall (approximately 40 linear feet).



HARRY A. ABRAMS, A.C.E.
Engineer-In-Charge of Investigations
Division of Sewer Maintenance
Bureau of Sewers

Att.

HAA:lg