

October 8, 1981

Mr. James G. Carlock, P.E.
World Trade Center Project
Administrator
The Port Authority of N.Y. & N.J.
1 World Trade Center
New York, NY 10048

RE: WTC-C-81; World Trade
Center, Dey Street
Underpass
Borough of Manhattan

Dear Mr. Carlock:

In reply to your latest submittal of revised plans for the referenced project with a letter dated June 15, 1981, please be advised of the following comments:

- 1) The sectional drawings along the route of the proposed 18" diameter rerouted sewer indicate that the clearances between this sewer and adjacent paralalled utility lines located above it will leave insufficient trench width for access to the sewer in the event that replacement should become necessary. Therefore, to minimize the possibilities of replacing this sewer, it is required that the proposed sewer be class 56 Ductile Iron Pipe with "Push On" joints, laid on class "35" concrete cradle on undisturbed soil. It is also required to maintain a 4'-0" minimum clear width over the proposed sewer alignment. A sketch is inserted in the enclosed, marked-up copy of the submitted plans to illustrate the above comment.
- 2) A complete profile of the proposed, rerouted 18" diameter sewer should be shown in the plans. The profile drawing should indicate all clearances with adjacent crossing structures and other utilities.
- 3) Drawing WTC-C2-81 shows the proposed 18" diameter sewer to be connected directly to the existing 3'-6" X 2'-0" brick sewer in Church St. just west of the proposed manhole No.3, without the use of a manhole. Since this method of connection may damage the old existing brick sewer, it is required that a manhole be constructed on the existing sewer to receive the new 18" connection. As a suggestion, to avoid interference with the existing telephone ducts located above the sewer, manhole No. 3 may be re-designed as an L-shaped M.H., with the existing brick sewer located within the horizontal leg of the "L". Details of any such manhole should be submitted for review as part of the contract plans. An existing manhole in proximity to this proposed connection may be eliminated, and necessary modifications made to accommodate the existing 12" diameter catch basin connection.

- 4) Complete structural details of manholes No. 1 & 2 should also be shown on submitted plans since they are non-standard. In this regard, there is an apparent interference condition shown at section F-F on drawing WTC-C4-81, between a 3" electrical duct, A 12-3" tel. duct bank, and the proposed manhole No. 1. No utilities shall be permitted to interfere with any sewer structure.
- 5) No existing sewer house connection shall be compromised as a result of any sewer abandonment in this project. Although no house connections are indicated on the plans, if any such connections are found in the course of construction, they must be continuously maintained and if disturbed, be re-connected before completion of the work.
- 6) The plans do not clearly differentiate, on every sheet, between existing structures to be maintained, abandoned, or rerouted. This should be corrected on revised plans.
- 7) There are two proposed steam drains shown to be connected to new manhole No. 3, one of which apparently does not pass through a cooling chamber. No steam may be permitted to enter a sewer without first being cooled to a temperature not greater than 150 Deg. F.

Please submit three (3) complete sets of plans revised in accordance with the comments stated above and marked in red on the enclosed plans, for further review.

Encl.

cc: DiMartino
Novotny
Pocci/Saia
Farag/Yee
Swedlow (3) ✓
Suspense

MS:lp

Very truly yours,

FREDERICK NOVOTNY, P.E., CHIEF
Div. of Sewer Regulation & Control

