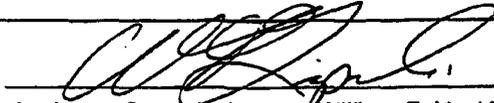


STANDARD CONSTRUCTION OPERATING PROCEDURE

City of New York Department of Design and Construction
Division of Infrastructure Bureau of Construction

**SUBJECT: AS-BUILT RECORDS FOR SEWER
PROJECTS - R. E. RESPONSIBILITY**

APPROVED:


Assistant Commissioner *William F. Lipski, P.E.*

SCOP..... : 98 - 003 S

**CATEGORY.. : RECORD KEEPING
Subcategory : AS-BUILTS**

Keywords : AS-BUILT,
RECORDS

Supersedes... : N/A

Supplements.... : N/A

Sheet..... : 1 of 1

Issue Date..... : November 10, 1998

In order to eliminate the need for extensive records research by the as-built unit, and to expedite the production of sewer as-built drawings, commencing immediately, all pertinent as-built information must be recorded in the field on a daily or weekly basis by the Resident Engineer or his designee. This as-built information is to be neatly recorded on a copy of the project drawings* in red pen or red pencil. Any information on the design drawing that has not changed in construction, does not have to be re-recorded. The following as-built information, at a minimum, must be recorded:

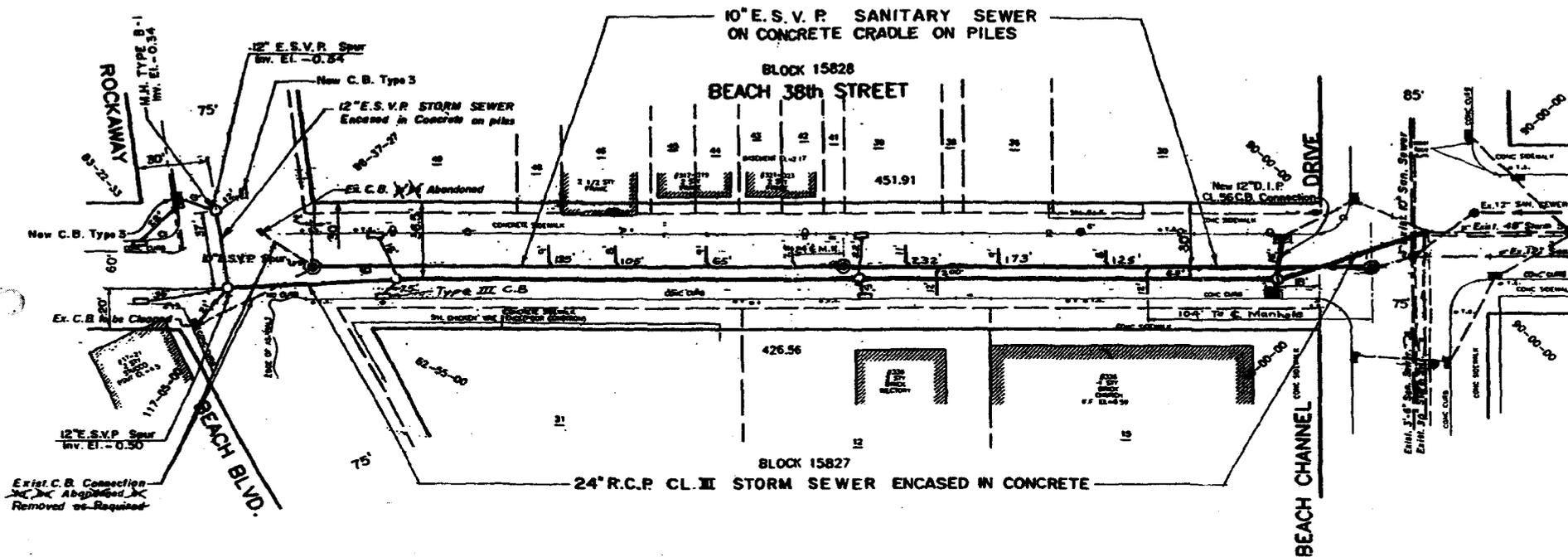
1. All changes to the original contract drawings including changes in pipe material, pipe size, change from cradle to encasement, change order work, etc.
2. Location (if changed) from the centerline of the sewer pipe to the property line.
3. All new house connection and reconnection locations, lengths, sizes, and pipe materials.
4. Changes in manhole type or size. Record if the manhole was precast or cast in place.
5. All catch basin locations and types, basin connection lengths, and catch basins numbers.
6. All pile limits and a profile of pile tip elevations (every 50 feet).
7. Any sheeting left in place.
8. Limits and depth of unsuitable fill (> than 1 foot) removed under the pipe and replaced with stone ballast.
9. Limits of rock excavation with top of rock profile.
10. Any other item that would be important for future construction in the area (e.g. oil-o-static lines, TA facilities, etc.)

General notes should be used with exceptions noted. For example "All manholes are 6' Φ precast unless otherwise noted.

On "In House" Supervised projects do not record the sewer lengths between manholes or the invert or rim elevations. At substantial completion, the as-built drawings must be hand delivered to the Project Close-out Unit (PCU) As-Built Section, or onsite directly to the PCU surveyor. The sewer as-built lengths from manhole to manhole as well as the invert and rim elevations will be obtained by and recorded on the plans by the PCU surveyor.

All information must be recorded neatly and legibly so drawings can be transmitted to DEP.

* In the near future, "cleaned up" design drawings, labeled "As-Built" will be furnished at the start of each project for this purpose.



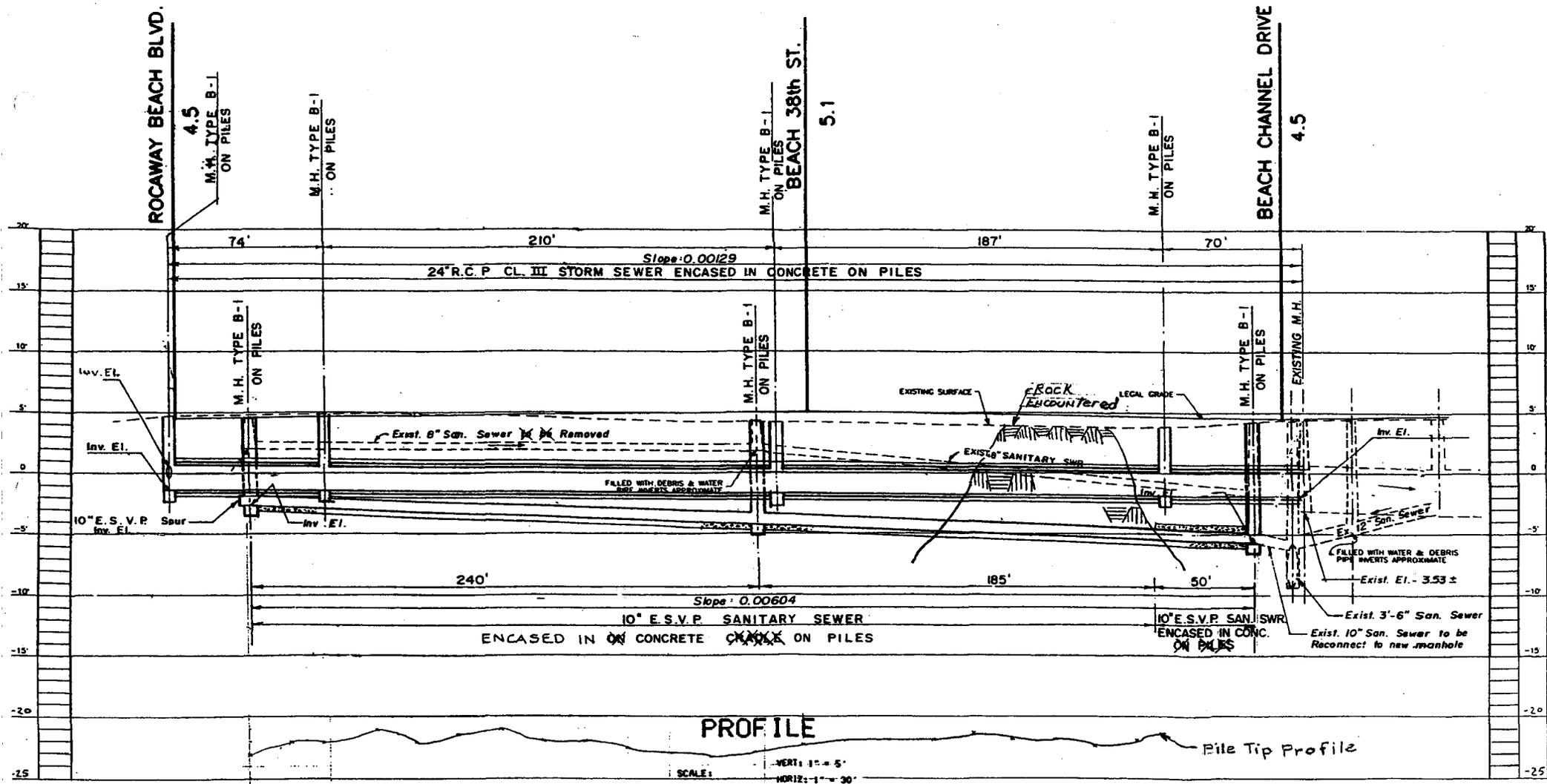
GENERAL NOTES

1. PAYMENT LENGTHS ARE MEASURED FROM INNER FACE TO INNER FACE OF MANHOLES OR CHAMBERS.
2. DISTANCES BETWEEN MANHOLES ARE MEASURED FROM CENTERLINE OF COVER TO CENTERLINE OF COVER. COVERS ARE SHOWN AS SMALL FILLED CIRCLES.
3. HOUSE CONNECTION DISTANCES ARE MEASURED FROM THE CENTER OF THE DOWNSTREAM MANHOLE STRUCTURE.
4. FLOW DIRECTION IS INDICATED BY SHORT ARROWS PARALLEL TO THE SEWER LINE.
5. UNLESS OTHERWISE NOTED:
 - a) ALL CATCH BASINS ARE STANDARD TYPE-2.
 - b) ALL HOUSE CONNECTIONS ARE 6" E.S.V.P.
 - c) ALL MANHOLES ARE

PLAN

SCALE: 1" = 30'

DDC99-1-11



CAPITAL PROJECT SEQ-002363/200249
 FOR THE CONSTRUCTION OF SANITARY AND STORM SEWERS AND APPURTENANCES IN:
 BEACH 37th AND 38th STREETS BETWEEN ROCKAWAY BEACH BLVD. AND
 BEACH CHANNEL DRIVE
PLAN & PROFILE

DATE: AUGUST 1994
 SHEET 3
 2301 OF 4

DDC94-12