

North Hudson Sewerage Authority

Sewer Connection Review Checklist

1. General

- A. The following general information must be submitted as part of the application:
 - i) Two (2) copies of Plans and Specifications for proposed connection, certified by a Licensed Land Surveyor or Professional Engineer that includes, but is not limited to, the following information:
 - a) Name of Applicant
 - b) Name of Project
 - c) Name of Owner, if different from that of Applicant
 - d) Block and Lot numbers on the current Tax Assessment Map
 - e) North Arrow
 - f) Date of preparation of map and revision dates
 - g) Graphic scale
 - h) Benchmark datum with elevation
 - i) Proof of compliance with pretreatment program, if applicable.
- B. See below for required technical information, as applicable.

2. Treatment Works Approval (TWA) Applications

- A. Submittal of completed application to the North Hudson Sewerage Authority is required for all sewer discharges. Submittal to the State for approval is only required for sanitary sewer discharge greater than 8,000 gallons per day (gpd).
- B. Two (2) copies of forms TWA-1, WQM-006, WQM-003 must be submitted.
- C. Forms must be signed and sealed by a Licensed Professional Engineer.

3. Connections - General

- A. The following notes must be on the plan:
 - i) "The Contractor is responsible for the stabilization of the sewer during connection."
 - ii) "North Hudson Sewerage Authority will be notified at least 72 hours prior to connection to the sewer."
- B. PVC laterals are not permitted in the City of Hoboken; ductile iron pipe is preferred.

4. Sanitary Sewer Connections

- A. No sanitary connection shall be made to an existing manhole.
- B. A cleanout must be provided, preferably within the property line of the building.
- C. Location of the connection from the building to the sewer must be shown on the plans.
- D. All connections should be made through a core drilled hole in the existing sewer pipe. Connections to brick sewers must be sealed with an A-Lok or Core-N-Seal gasket to prevent leakage.
- E. Sanitary laterals greater than 6-inches are not permitted into sewer mains.
- F. Detail of the connection to the sewer must be shown on the plans.
- G. The minimum slope for the sanitary sewer lateral is 0.4%.
- H. The following information pertaining to the sanitary sewer lateral must be shown on the plans:
 - i) Material
 - ii) Size
 - iii) Slope
 - iv) Invert elevation at building exit
 - v) Invert elevation at sewer connection
 - vi) Location of lateral relative to other utilities in profile view
 - vii) Cleanout location
 - viii) Cleanout detail

5. Storm Sewer Connections

- A. Laterals shall be connected to the sewer with a tee connection if the lateral is less than or equal to 18 inches in diameter. If the lateral is greater than 18 inches in diameter, then the connection shall be made using a doghouse manhole.
- B. Storm sewer laterals must have adequate capacity to handle drainage from property during a 2-year storm event. A detention system may be required. Sizing calculations shall be submitted by the Applicant, signed and sealed by a Licensed Professional Engineer. Calculations performed by a Licensed Architect will not be accepted.
- C. Method of collection of storm water on property must be shown on the plans (i.e., catch basins in parking lots, roof drains, etc.).
- D. Grading on the lot (minimum 2 foot contours) should be shown to ensure proper drainage of storm water from the site.
- E. Location of the connection from the collection system to the sewer must be shown on the plans.
- F. Detail of the connection to the sewer must be shown on the plans.
- G. The following information pertaining to the storm sewer lateral must be shown on the plans:
 - i) Material
 - ii) Size
 - iii) Slope
 - iv) Invert elevation at collection system discharge
 - v) Invert elevation at sewer connection
 - vi) Location of lateral relative to other utilities in profile view

6. Connections to Manholes (if applicable)

- A. A drop connection is needed if the difference between the invert of the lateral and the invert of the manhole is greater than two (2) feet.
- B. The location of the lateral in the manhole must be such that it does not conflict with other pipes entering the manhole or with other manhole features such as manhole steps and benches.

7. Dewatering (if applicable)

- A. A copy of the full Dewatering Checklist will be provided upon request. It includes discharge requirements, pollutant limitations, and dewatering plan requirements.

8. Detention Systems

- A. All Applicants within the Authority's service area must provide storm water detention for the property.
- B. The detention system must be designed to retain to the 10-year storm event and must satisfy at least one of the following conditions:
 - i. If the impervious area of the post-developed site is greater than the impervious area of the pre-developed site then the post-development site will generate no greater peak runoff from the site than prior to development. This includes for two-year and 10-year storm conditions, considered individually.
 - ii. If the impervious area of the post-developed site is less than or equal to the impervious area of the pre-developed site then the post-development outflow over a 30 minute period of a 10-year storm will be the same as that of a 2-year storm during the same time period.
- C. The design storms shall be defined as either the estimated maximum rainfall for the estimated time of concentration of the runoff at the site when using a design method such as the Modified Rational Method, or a 24-hour storm using the rainfall distribution recommended by the U.S. Soil Conservation Service procedures.
- D. The Storage Indication Method (also known as the modified Puls method) will be used as recommended in Chapter 6 of the New York Department Guidance Manual.
Details on the Storage Indication Method can be found in:

Ponce, V. M. 1989. Engineering Hydrology, Principles and Practices. Prentice Hall, pages 260-263.

9. Grading Plan

- A. A grading plan must be submitted which demonstrates the ability to eliminate street flooding.

10. Special Conditions

- A. Any property constructed in the Southwest portion of Hoboken must provide pumps for the sanitary sewer and/or stormwater flow (see below) or valid calculations showing that the pumps are not necessary.
- B. If unsure, the Applicant should contact the Authority to determine whether a project is subject to these special conditions.

11. Pumped Connections and Dewatering Pumps

- A. Pump calculations and pump curves must be submitted for the pumping system.
- B. Back up pumps must be provided in the event of pump failure and a back up generator must be provided in the event of power failure during discharge.
- C. The control and alarm system must be detailed in the submittal.
- D. Pumps must be selected so that the force of discharge into the sewer will not adversely impact the structural integrity of the sewer.
- E. A maintenance plan for the pumps must be submitted and pumps must be placed so that they can be accessed for maintenance and replacement.

12. Specifications

- A. Specifications must be submitted in accordance with NJAC criteria.