

JERSEY CITY MUNICIPAL UTILITIES AUTHORITY

STANDARD REQUIREMENTS FOR NEW SANITARY AND STORM SEWERS AND SERVICE LATERALS

Plans and any additional information as applicable must be presented to the JCMUA for review and comments for all proposed sanitary and storm sewer connections to the JCMUA sewer system or that are proposed in Jersey City. Repairs to existing services do not require the review and approval of the JCMUA. All plans must be signed and sealed by a Professional Engineer or Registered Architect licensed to practice in New Jersey and submitted to the JCMUA's Sewer Engineering Office, 555 Route 440, Jersey City, NJ 07305 for approval.

The following technical requirements shall be addressed in preparation of site/utility plans:

- 1.) Bedding and backfill material shall comply with the requirements of the NJDOT's Standard Specification for Road and Bridge Construction, and the Design and Construction of Urban Stormwater Management Systems, ASCE Manuals and Reports of Engineering Practice No. 77, 1993, as applicable.
- 2.) All sewer service connections 6-inches in size or smaller must be made directly to the sewer main and all connections 8-inches in size or larger must be made to a manhole. Where a connection to a manhole is required, manhole bench and channel may require modification.
- 3.) The JCMUA requires that sewer service connections to be re-used be televised to verify their integrity and that the pipe is free from any defects.
- 4.) Each building connection requires a curb cleanout (refer to attached detail drawings). T-Wye cleanouts which enable cleaning in both directions should be installed on both the storm and sanitary lateral.
- 5.) Proposed sewer lateral connection to JCMUA's sewer main shall be made above horizontal center line of pipe (refer to attached sewer service connection details).
- 6.) The size, material, depth, condition, direction of flow and any other relevant conditions of the existing JCMUA sewer to which you plan to connect must be field verified by developer to determine if said connection is physically possible and practical. In addition, manhole inverts and rim elevation must be shown on plans. This verification is to be included on the plans for the project.
- 7.) Circular hole saws which are approximately sized or hand drills must be used to make the openings in the existing sewer to receive the laterals. Jackhammers, sledgehammers and other unsuitable tools or machinery which may damage the

JCMUA's sewer main are not allowed to be used to make the lateral openings. All debris must be removed and not allowed to fall into pipe.

- 8.) A detail of any proposed manhole or catch basin showing all dimensions in addition to rim, grate and invert elevations of the structure and all pipes connected to the structure must be shown on plans. Refer to JCMUA standard detail drawings for manholes and catch basins.
- 9.) Proposed manholes constructed in the public R.O.W. on existing or proposed JCMUA sewers shall be furnished with concentric manhole covers as manufactured by Campbell Foundry Co., Pattern #4428 or equal with outside cover diameter of 31-3/4 inches and inside cover diameter of 24 inches.

The letters "JCMUA" and "SEWER" shall be cast in the inside cover. Manhole frames shall be Campbell Foundry Co. Pattern #4428 (for 30-inch opening) or #1206 (for 41-inch opening) or equal furnished with a Pattern #4428 concentric cover as specified in the preceding paragraph.

Refer to JCMUA's standard detail for manhole frame and covers.

- 10.) Storm inlets which are connected directly to JCMUA combined sewers must be furnished with a sump and trap as per JCMUA standard details.
- 11.) The JCMUA has a combined sewer system which surcharges during wet weather periods resulting in possible sewage back-ups through plumbing fixtures (sinks, toilets, floor drains, etc.) below street level. This possibility must be addressed during the design/construction phase.
- 12.) A drop manhole connection shall be used where there is a difference in elevation of two (2) feet or greater between the invert of a sanitary or combined inlet pipe to manhole and the crown of the outlet pipe from manhole. Refer to attached JCMUA's standard detail for drop manhole connection which must be shown on site plan if required.
- 13.) Test pits must be performed at the developer's expense during the design phase of the project to ensure that proposed sewers and sewer services may be constructed as proposed without conflicting with other underground utilities or structures.
- 14.) All existing sewer mains and sanitary laterals to be abandoned must be filled with concrete slurry or removed from the ground. Catch basins and manholes must be removed from the ground. Connections must be cut and sealed at the main and precautions must be undertaken by the contractor to ensure concrete and other materials do not enter the main and create obstruction(s).
- 15.) All proposed inlets/catch basins must be constructed with a bicycle safe grate and Campbell Foundry Co. Type 'N' curbpiece where required.

- 16.) Proposed water services require the review and approval of the Division of Water Engineering.
- 17.) The contractor is responsible for obtaining permits for street openings from the Jersey City Building Department located at 30 Montgomery Street, Jersey City, NJ and all other applicable permits from agencies having jurisdiction.

The system designer is also responsible for compliance with the applicable regulations of the New Jersey Administrative Code, NJDEP Rules and Regulations Governing treatment Works Approval Program, local codes and ordinances, federal and state regulations etc. in addition to other requirements that may be imposed by the JCMUA.

11/3/05