

RULES AND REGULATIONS
OF
THE BEACHWOOD SEWERAGE AUTHORITY
1133 Beach Avenue
Beachwood, Ocean County, New Jersey 08722

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INTENT OF AND COMPLIANCE WITH RULES AND REGULATIONS

The Beachwood Sewerage Authority is a customer of the Ocean County Utilities Authority, whose system receives and treats all of the sewage from the Borough of Beachwood. All sewage discharged through the Ocean County Utilities Authority's system shall be in accordance with the Rules and Regulations of the Regional Sewerage Authority.

The Applicant shall comply with the Rules and Regulations of the Beachwood Sewerage Authority, as published in this document which is amended from time to time and as provided under New Jersey State Statute, Title 40A Chapter 26A, Municipal and County Sewerage Act. These Rules and Regulations are minimum, general and specific as to various requirements. They are intended to apply to the usual conditions, not the exceptional conditions. They are subject to amendment; and the Beachwood Sewerage Authority reserves the right to specify more or less stringent requirements, as in their judgment may be in the best interest of attaining a functional sewerage facility.

RULES APPLICABLE TO SEWERAGE SERVICE

SECTION I

APPLICATION FOR SERVICE

A. **Definitions:**

1. The word “Authority” shall mean the Beachwood Sewerage Authority.
2. The “Owner” shall mean the owner of the premises to be serviced.
3. The word “Main” shall mean the Authority owned or leased piping and appurtenances, in or along public highways, and streets, or along easements, used for the transmission or the collection of domestic or industrial wastes.
4. “Service Lateral” shall mean the pipe from the main in the street to the premises being served (to the curb line, property line, or edge of right of way).
5. “Building Sewer” shall mean the sanitary sewer running from the building of the owner’s premises to the curb line and connecting with the service lateral where sewer mains exist within paved streets and shall mean the sanitary sewer running from the owner’s premises to the connecting fitting where the sanitary sewer is installed within the sidewalk areas or easements.
6. “Domestic Sewage” shall mean the normal waterborne fluid wastes from residences, commercial establishments, institutions and industrial establishments, limited to the wastes from kitchens, bathrooms, water closets, lavatories and laundries.
7. “Industrial Wastes” shall mean the liquid wastes from industrial processes as distinct from domestic sewage. All industrial wastes shall conform to the requirements of the Rules and Regulations of the Ocean County Utilities Authority and any violations shall be handled through that jurisdiction.
8. “Residential User” shall mean:
 - a. ***Single Family*** – a structure on a lot designed and normally occupied exclusively as a residence for one (1) family. For purposes of the Authority’s rate structure, the single family designation shall equal one unit (equivalent dwelling unit or EDU).

- b. **Multiple** – A structure on a lot designed or converted and normally occupied as a residence for two (2) or more families. For purposes of the Authority's rate structure, each additional family designation above the original one (1) shall equal an additional unit or EDU.
- c. **Garden, High-Rise, Trailer Camps and Multiple type** – A multiple dwelling building or group of buildings on a lot, which is held and is designated to be held in a single ownership on which common yards and other common facilities and services may be provided; however, each dwelling unit shall have individual kitchen and bathroom facilities. For purposes of the Authority's rate structure, each individual dwelling shall equal one (1) unit or EDU.
- d. **Boarding House, Lodging House, Hotel or Motel** – A dwelling used for the purpose of providing lodging, or both lodging and meals for pay or compensation of any kind, whether occupied by day, week or month, to persons occupying such dwelling other than members of a family. For purposes of the Authority's rate structure, a motel or hotel, rooming house or lodging place shall equal one (1) unit plus one fifth (1/5) unit for each individual room designated for occupancy or lodging.

9. "Other than Residential" user shall mean:

All users and connections other than residential, including but not limited to business, commercial, industry, restaurants, taverns, theaters, camps, churches and schools. For the purpose of the Authority's rate structure, each separate establishment shall be dealt with in accordance with the gallonage consumed based upon measured water consumption.

10. "Service Charges" Pursuant to NJSA 40:14A-8, every sewerage authority is authorized to charge and collect rents, rates, fees and/or other charges for direct or indirect connection with or the use of the sewerage system. Such rents, rates fees and/or other charges, which may be payable periodically, being in the nature of use or service charges, shall as nearly as the authority shall deem practicable and equitable, be uniform through the system for the same type, class and amount of use or service of the system. Connection charges shall also be uniform within each class of user and

shall not exceed the cost of the physical connection, if made by the Authority, plus an amount computed in the manner to represent fair payment toward the cost of the system, including debt service, sinking funds, reserve funds, the principal and interest on bonds and the amount of any loans and interest thereon paid by the Authority to defray the capital cost of developing the system as of the end of the preceding fiscal year and shall be added to all capital expenditures made by the Authority not funded by a bond ordinance or debt for the development of the system.

B. Application by Owner

1. Sewerage service connections will be considered upon written application, by the property owner or his properly authorized agent. The Authority will provide forms for all applications. Applications must receive the approval of the Authority before connection is made and class of service is defined.
2. No application for service will be accepted by the Authority until the applicant has paid, or made satisfactory arrangements to pay, all arrears and charges due by the applicant at any premises now or heretofore owned by him.
3. The accepted application shall constitute a contract between the Authority and the applicant, obliging the applicant to pay the Authority its rates and connection fees as established from time-to-time and to comply with its Rules and Regulations.
4. Applications for service connections may be accepted subject to there being an existing sewer main in the street or right of way abutting the premises to be served.
5. When an owner has made application for a new service, or has applied for the reinstatement of an existing service, it is assumed that piping and fixtures on the applicant's premises are in good condition.
6. A new application must be made to and approved by the Authority, upon any change in ownership or use of the property or in the service, as described in the original application.
7. The Authority shall have the right, upon five (5) days notice, to discontinue the sewer service until such new application has been made and approved. Although property may be occupied or leased to a tenant and tenant may have paid the sewer charges,

the owner of the property is the ultimate responsible party for payment of any sewer charges.

8. Industrial and commercial establishments making application for sanitary sewer service, in addition to making written application for such services, shall furnish a detailed description of the type and size of building, the nature of the business to be conducted in each structure, the number and type of fixtures to be served, and the type and volume and chemical characteristics of the waste to be discharged. Such applicant shall also furnish the Authority four (4) copies of plans showing:
 - a. The boundaries of the property being serviced.
 - b. The location within the property of the structures to be served.
 - c. The location and profile, with respect to finished grade, of the building sewer.
 - d. Details of the proposed connection to the Authority's sewerage system and arrangements and details of meter installations (if required). (Refer to Section XI with respect to admissibility of industrial wastes).

SECTION II

DISCONTINUANCE OF SERVICE

A. Owner

Sewer service will not be considered a service subject to temporary shut-off. Requests for permanent discontinuance of sewer service will be permitted only in cases of demolition, fire, flooding or the building being vacated by order of the Board of Health for health reasons.

In the event that a sewer lateral service will be permanently discontinued, the Authority shall be notified, in writing, that the service billing will be terminated. The property owner must file an Application for Disconnection of Sewerage Facilities, and the sewer lateral shall be permanently sealed watertight by the property owner in a manner subject to the approval of the Authority's Inspector, with all costs of review and field observation being borne by the Property Owner. In the event that a sewer lateral will be temporarily discontinued, the Authority shall be notified in writing. If the existing lateral is to be reused, it shall be temporarily plugged.

In the case where a dwelling or building is to be demolished and a new dwelling or building is to be constructed in the same location, disconnection and reconnection applications must be submitted by the Owner together with the permit for a temporary trailer to be connected to the sanitary sewer (if required). Sewer service shall not be considered a service which can be temporarily discontinued except as noted above. The Owner of the property, which is connected to the sewer, will be responsible for payment of sewer rental charges in accordance with the current rate schedule as established by the Authority during the time a structure is unoccupied. If a temporary trailer is placed at the site of a demolished structure, a permit is required prior to connection of the trailer to the sanitary sewer.

B. Authority

A service for sanitary sewer may be discontinued by the Authority for any of the following reasons:

1. Misrepresentation in application filed with the Authority
2. Discharge of wastewater considered by the Authority to be detrimental to the system and any of its components.
3. Discharge of wastewater from any other property or purpose other than as described in the application filed with the Authority.
4. Nonpayment of any charge accruing under the application
5. Refusal of reasonable access to the property for purposes of inspecting and/or for reading of meters (if any).
6. Making or refusing to sever any cross connection between a pipe or fixture carrying metered water and a pipe or fixture carrying water from any other source.
7. Violation of any of the rules or regulations established by the Authority.
8. Turn-off without consent: The owner shall not turn off, disconnect or remove the sewage meter or permit its disconnection or removal without written consent of the Authority.
9. Due to Emergency: As necessity may arise, in the event of breakdown, emergency or for any other unavoidable cause, the Authority shall have the right to temporarily interrupt the sewer service in order to make necessary repairs, connections, etc., but the Authority will use all reasonable and practical measures

to notify the user of such discontinuance of service. In such case, the Authority shall not be liable for any damage or inconvenience experienced by the user, or any claim against it at any time for interruption of service. When the service is to be temporarily interrupted, notice will be given, when practicable, to all users affected by the temporary interruption of services stating the probable duration of the interruption and also the purpose of the interruption.

10. Renewal of Service After Discontinuance: Sewer service will be renewed under a proper application when the conditions under which such service was discontinued, have been corrected, and upon the payment of all proper charges and amounts provided in the Schedule of Rates or Rules of the Authority due from the owner.

SECTION III

RESPONSIBILITY FOR SERVICE

A. No Responsibility

It is agreed, by the parties receiving service, that the Authority does not assume any liability as insurer of property or person. The Authority does not guarantee any special service, capacity or facility other than is permitted by the ordinary and changing operating conditions of the Authority, as the same exists from day to day. It is agreed by the parties receiving service that the Authority shall be free and exempt from any and all claims for injury to any persons or property by reason of failure to provide collection.

B. Reserve Capacity

The Authority shall have the right to reserve sufficient capacity in its facilities to adequately collect sewage from all existing and contracted connections. The Authority may further restrict or regulate the quantity of wastewater discharge to its system by the customer in case of scarcity of capacity or whenever the public welfare may so require.

SECTION IV
BILLS AND PAYMENTS
NJSA 40A: 26.4-5 and 40A: 26A-10

A. Payment of Bills

Bills are payable at any office or pay agency of the Authority. Payments made by mail will be credited on the date as received at the Authority office. Bills are sent annually and payments are made quarterly. **Bills may also be paid via use of the Authority's website utilizing the ONLINE CREDIT CARD PAYMENT OPTION.**

B. Delinquent Bills

If a bill remains unpaid, in part or in total, for a period of thirty (30) calendar days after it is due, it shall be deemed as delinquent. Should a bill continue to remain unpaid beyond the initial thirty (30) day period, the property for which service is being billed shall be referred to the Borough of Beachwood as a tax lien for the amount of the unpaid balance, inclusive of all interest and penalty charges, and shall be subject to tax lien sale. If a bill remains unpaid fourteen (14) days after being classified as delinquent, service may be discontinued at any time after having given not less than ten (10) days written notice to the Owner (NJSA 40A:26A-12). No service shall be restored until such time as all unpaid bills, charges and interest and turn-on charges are paid or satisfactory arrangements made for such payment.

C. Penalties

A penalty charge of one and one half(1-1/2) percent per month on the amount of the delinquent bill will be assessed to the unpaid balance. The cost or charges for disconnection and/or reconnection to the Authority's system, if so required, shall also be added to any unpaid balance and shall also be subject to penalty.

SECTION V

INSTRUCTIONS FOR FILING APPLICATIONS

A. General

All applications, Preliminary and Final must be submitted at least three (3) weeks (21 calendar days) prior to a regular meeting of the Authority. The owner or a duly authorized agent or representative shall sign all applications. If signed by an authorized agent or representative, the application shall be accompanied by an affidavit of such authorization. If the application is being submitted by a corporation, then a notarized list of stockholders, including names and addresses, of all parties having a 10% or greater interest shall be submitted along with an application and a corporate resolution authorizing the agent or representative to file such application on it's behalf.

B. Application for Preliminary Approval

An application for "Preliminary Approval of Sanitary Sewer Facilities" (EXHIBIT A), along with the appropriate application and escrow fees and the required plans for review shall be submitted to the Authority.

The purpose of the application is to determine if sanitary sewer facilities are located at or near the project or development site, the status of any future plans to extend service to the particular area and any construction requirements for such extension of facilities. In addition to the application form, the applicant shall submit a General Location Map and Site (or Subdivision) Plan depicting the location of all existing facilities within 200 feet of the project site. A non-refundable application fee as published by the Authority shall also accompany the application. In addition, an initial design review escrow deposit shall

be posted based upon a rate as published by Authority Resolution. An IRS form W-9 shall accompany the escrow deposit, completed in the name of the applicant.

The Authority will either request additional information or acknowledge that the application is administratively complete. A copy of the Authority Engineer's review comments will be supplied to the Authority and the applicant. The Preliminary approval shall remain in effect for a period of one (1) calendar year from the date of the approving resolution. The applicant is advised that Preliminary Approval does not grant or reserve capacity in the collection system.

C. Application for Final Sewer Approval

If a Final application is required, the applicant shall be required to submit the "Application for Final Approval of Sanitary Sewer Facilities" (Exhibit B), along with the following information:

1. An application fee in an amount as published by Authority Resolution
2. A review Escrow deposit in an amount as published by Authority Resolution
3. A completed and signed IRS form W-9 made out in the same name as appears on any check supplied for the Escrow Deposit.
4. A General Map of the entire project, showing existing and proposed sanitary sewer facilities, existing and proposed water facilities, and other existing and proposed utilities (overhead and underground), such as gas, electric, stormwater facilities and other similar facilities that impact the design of the sanitary sewer mains and lateral locations.

5. Detailed plans and profiles for all proposed sanitary sewer main extensions.
Plans shall be 24" x 36" and properly titled. All sheets shall be numbered and contain a Title Block identifying the project/property, Block and Lot numbers, and shall be signed and sealed by an Engineer licensed in the State of New Jersey. Profiles shall depict all manholes, pipes, storm sewer and water crossings and other pertinent information using USGS elevations. Gradients and diameters of sewers, rim elevations and invert elevations shall be shown at each manhole. The plan view of the sanitary sewer system shall show all manholes and invert elevations, curbs, storm sewer inlets and pipes, water mains, hydrants, valves, roads, sidewalks, driveways, lot lines, the size, slope, linear footage and type of pipe for each run of sewer. Plans shall be at an appropriate scale and shall show topographic information at one (1) foot contours, north arrow and reference meridian, with existing facilities in broken or dashed lines and proposed in solid, bold lines. All sanitary sewer mains shall be stationed along the centerline of road or similar rights of way. All plans shall be provided with a Signature Block containing the full Authority name and a line for the Authority Engineer to sign and date. The signature block must be completed in ink on the original plan (sticky-back or similar duplicates will not be permitted). A revision block shall be provided within or adjacent to the Title Block.
6. Specifications for construction of sanitary sewer facilities shall be submitted in a form acceptable to the New Jersey Department of Environmental Protection and shall include descriptions of general requirements, site work, piping, valves, concrete work, mechanical equipment, appurtenant materials, testing

requirements, reference specifications and other information as necessary to aid in constructing the facilities.

7. A detailed estimate of construction costs for the proposed sanitary sewer extension based upon the current year's contract for lateral installation and line extensions shall be provided by the applicant for review by the Authority's Engineer and approval by the Authority. The Authority reserves the right to reject any estimate in which the costs or quantities cannot be substantiated
- Approval of Final Applications will become null and void after a two (2) year period from the date of the approving resolution, if no subsequent application or construction takes place during that period. Upon Final Approval of any extension of sanitary sewer facilities, the applicant shall submit to the Authority for review and signature, such application to the Ocean County Utilities Authority and the New Jersey Department of Environmental Protection as is required to secure the necessary permit to construct and operate such extension of facilities. The Authority shall be named as "Applicant" on any such application, however, any and all copies of plans and specifications, required notices, application fees or escrow deposits shall be borne by the applicant (Owner or authorized agent or representative) to the Authority.

D. Supplemental Requirements and Conditions

All work on the Authority's system shall be performed by the Authority's Contractor pursuant to the current contract for lateral installations and line extensions, at the cost of the applicant, unless written permission to have the work performed by a contractor selected by the applicant and satisfactory to the

Authority is granted. All work shall be performed in strict compliance with the approved plans, specifications and the Rules and Regulations of the Authority. The applicant is responsible for the securing of any and all road opening permits and other local, County and State or Federal approvals or permits required to perform the work. The applicant shall be responsible for the cost of any and all flagmen, uniformed or otherwise as required for the work. If there are minor revisions made after the review and approval by the Authority, and such revisions, in the opinion of the Authority Engineer, do not affect the sanitary sewer review, an "Application for Re-Approval" (EXHIBIT C) must be filed with the appropriate fee and two (2) signed and sealed copies of the latest plan along with a brief description or explanation of the revisions. Copies of all local, county and state approvals and permits shall be provided to the Authority for its project files.

E. Application for Sewer Connection

Owners of property desirous of making a connection to existing sewer mains shall file an "Application for Connection to Sanitary Sewers"(EXHIBIT D) with the Authority. This application shall be accompanied by the appropriate installation, inspection and connection fees as set forth on the form of the application and as established by Authority Resolution.

Sewer connections shall be made to a street main only by the Authority's authorized and contractor, at the sole cost of the property owner, and shall be subject to inspection by an Authority Representative. Connection shall be through an approved wye, saddle or manhole. Connections shall be made in accordance with the Standard Details as provided by the Authority. All

connections must have an inspection or observation wye (cleanout) with 1/8 bend or combination fitting placed two (2) feet from the curb in the sidewalk area, or if there are no curbs, two (2) feet outside of the municipal right of way line. All inspection cleanouts located at the property line shall be installed with a minimum 4" cleanout box (CC4) installed at grade and in compliance with the detail appended to these rules and regulations. No cleanouts shall be installed in driveway or sidewalk areas. Connections are under the jurisdiction of the Authority and will be inspected by an authorized representative of the Authority from the cleanout at the property line to the main. A permit must be obtained from the Borough of Beachwood, through its plumbing inspector before any connection may be made. Inspection by the appropriate municipal agency is required prior to backfilling of any trench. Any connection serving a commercial building shall, at the discretion of the Authority and/or the Borough Plumbing Inspector, have installed an oil and grease trap of sufficient capacity based upon the estimated flows, and maintenance of such oil/grease trap shall be by the property owner and subject to periodic inspection by the Authority and/or the Borough Plumbing Inspector.

SECTION VI
INFORMATION ON DESIGN AND CONSTRUCTION

A. Sewer Pipe

General: Materials utilized in the construction of sewers and force mains shall be as follows:

Gravity Sewer Mains: Gravity sewer mains shall be constructed of Polyvinyl Chloride (PVC) pipe or Ductile Iron Pipe (DIP), Class 52, Cement lined, unless specifically otherwise permitted by the Authority. All standard specifications referred to herein, such as ASTM, AWWA and the like, shall be the latest revision thereof at the time of application for Final Approval.

Polyvinyl Chloride (PVC) pipe: PVC pipes, fittings and installation procedures shall conform to the latest revision of either ASTM D-1785 (Specification for Poly (Vinyl Chloride) PVC plastic pipe, schedules 40, 80 & 120), ASTM D-3030 (Standard specification for Type PSM Polyvinyl Chloride (PVC) Sewer Pipe and Fittings), ASTM D-1784 (Standard specification for Rigid Polyvinyl Chloride (PVC) and Chlorinated Polyvinyl Chloride (CPVC) Plastic Pipe SDR-SR), ASTM D-3212 (Standard specification for Joints for Drain and Sewer Plastic Pipe using Elastomeric Seals), and ASTM D-2321 (Standard practice for Underground Installation of Flexible Thermo-Plastic Sewer Pipe). All pipe shall bear on the outside surface, the Trade Name, Pipe Size and Class designation. Gaskets for joints shall conform to the requirements of ASTM F-477, Latest Edition and shall be round rubber gaskets suitable for use with the particular size and class of pipe with which they are supplied.

Ductile Iron Pipe (DIP): Ductile Iron Pipe, Class 52, Cement Lined gravity sewer main shall be installed where sewer mains are less than four (4) feet to the top of the pipe in streets, roads, rights of ways or other similar area where the main will be subjected to loads from vehicular traffic. Ductile Iron Pipe shall be centrifugally cast in metal or sand line molds to AWWA Specification A21.51. The joint shall be of a type that employs elongated grooved gasket to effect the joint seal. The outside of the pipe shall be coated with a uniform thickness of hot applied coal tar coating and the inside shall be lined with cement in accordance with AWWA C104.

Bedding: Class C Modified bedding shall be used throughout the project unless otherwise approved by the Authority or Authority Engineer. All sewer mains and laterals shall be bedded on approved granular material in an earth foundation shaped in undisturbed earth so as to fit the lower portion of the exterior of the pipe, including areas for the bells. Use of blocking or other materials to level the pipe shall not be permitted.

Backfilling: All trenches and excavations shall be backfilled immediately following inspection of the installed pipe and fittings. No material shall be used for backfilling that contains stones, stumps, clumps having a dimension greater than two (2) inches, frozen earth, debris, or earth with an exceptionally high void content. For backfill up to a level of one (1) foot above the top of pipe, only select materials shall be used and the backfilling shall be placed in uniform layers not exceeding six (6) inches in depth up each side of the pipe and uniformly tamped. Care shall be exercised during the backfilling so as not to cause the pipe or structures to shift or move from the design location. Excess excavation below the required level shall be backfilled with material

conforming to New Jersey Department of Transportation requirements for Type 4, Class E Soil Aggregate or Number 4 Coarse Aggregate as directed by the Authority Engineer or Representative. Unstable or unsuitable soils shall be removed and replaced with gravel, crushed stone or crushed slag, which shall be thoroughly tamped.

Concrete Cradle: Where existing storm, sanitary sewer, potable water or other utility mains cross within six (6) inches of the proposed gravity sewer main, a concrete cradle shall be employed extending from the springline of the gravity sewer to the springline of the existing utility pipe and have a length equal to the outside diameter of the existing utility pipe plus two (2) feet and a width equal to the outside diameter of the proposed gravity sewer main plus one (1) foot, centered on the respective pipes.

Manholes: Pre-cast, cast in place, drop and special manholes shall be constructed, furnished and installed complete with all cover, castings, steps, ladders, fittings, benches, inside drop connections (pipes), coatings and other appurtenances.

Manholes shall be provided at maximum distances of 400 linear feet and at all changes in direction or slope. All materials shall conform to the latest Standard Specifications for all materials required pursuant to New Jersey Department of Transportation Standard Specifications. Pre-cast sections shall conform to the size and shape as indicated on the detailed plans as approved by the Authority. Base and Top Slab design calculations shall be supplied, signed and sealed by a Professional Engineer, licensed in the State of New Jersey, and shall be made of concrete having a minimum strength of 4,000 psi and capable of supporting an H20 vehicular load. All

precast manhole tops shall be eccentric cone or flat slab top. Flexible manhole sleeves shall be cast into the wall of manhole sections at locations and inverts where pipe connections are to be made. Flexible sleeves shall be Lock Joint Flexible Manhole Sleeves by Interpace Corp., or approved equal. Openings in manhole walls shall be made utilizing an approved coring machine. Use of jackhammers or other similar types of devices shall not be permitted. Circular openings shall be a maximum of the outside diameter of the pipe plus two (2) inches and the annular space filled with quick setting, non-shrink grout. Gaskets for manholes shall conform to ASTM C-361. Manhole castings shall meet the requirements of ASTM A-48 for Class 30B castings. Standard manhole frame and covers shall be Campbell Foundry Number 1202 or approved equal. All castings shall be capable of withstanding a minimum H₂₀ wheel load. Castings shall be close grained, tough, grey iron, free of cracks, swells and shrinkage distortion. Lids that rock or otherwise do not fit flat and solid shall be rejected and replaced. Castings shall be coated on the inside and outside with coal-tar pitch varnish and shall be a solid design with non-penetrating pick holes. All lids shall be cast with the letters "BSA" with a minimum one (1) inch high raised letter. Manhole steps shall be 6061-T6 Aluminum Alloy, drop front design, built into the manhole wall and situated in a straight alignment so as to create a continuous ladder with a maximum distance of twelve (12) inches between steps. That portion of the step embedded in the concrete shall be coated with coal-tar pitch varnish. Base sections shall be placed on level, crushed stone foundation and shall be positioned to properly allow pipe connections. Manhole gaskets shall be placed between sections per manufacturer's recommendation and shall create a continuous waterproof seal.

All lifting holes shall be sealed full depth with manufacturer's plugs and non-shrink grout. All manholes shall be brought to final grade using not less than two (2) nor more than five (5) courses of brick or precast grade rings. Castings shall be set at the required final grade and securely attached to the manhole with a cement mortar bead and fillet. Manholes shall be internally lined with a coat tar epoxy coating, applied in two (2) coats and having a total thickness of 16 mils. The coating for the manhole bench shall be supplied with an additive to create a non-skid surface. Drop pipe connections shall be of the inside drop type with drop pipes being one pipe size larger than the influent pipe and anchored to the inside wall of the manhole with stainless steel straps and anchor bolts. Drop pipes shall be installed in such a manner as not to interfere with the manhole steps or ladder.

Asbuilt Plans: After construction, and before final acceptance by the Authority, the applicant shall furnish to the Authority, two (2) Mylar copies and a .pdf digital copy of the approved Asbuilt Plans and one (1) set of black (or blue) on white prints of each drawing showing all sewers, lateral connections, etc., as constructed. Lateral connections shall be located by manhole stationing from the downstream manhole running upstream. The lateral station, depth of the lateral at the cleanout, distance from the main to the cleanout shall be provided. In addition, a triangulation distance from two (2) permanent structures (utility pole, existing house corner, etc.) and a depth to the plugged lateral shall be provided.

Pipe Tests and Inspection: The Authority or Authority Engineer shall observe all construction and testing of pipe. A minimum of forty-eight (48) hours notice shall be provided prior to start of construction or performing of any testing.

Visual Inspection: Each section of the installed sewer shall be visually inspected prior to testing. The applicant or applicant's contractor shall provide all facilities necessary for inspection of construction. Pipe shall be laid true to line and grade, shall contain no broken pipe, shall show no leaks, shall show neither obstructions nor the projection of connecting pipes into the main pipe, and the pipe shall contain no debris or other deposits which will in any way reduce the full cross-section area of the pipe. Any that does not comply with these requirements shall be promptly corrected and replaced or repaired. Such methods of correction shall be reviewed by the Authority or Authority Engineer.

Infiltration and Exfiltration Tests: Prior to testing for watertightness, all debris shall be removed from manholes and the pipe shall be flushed in such a manner as to permit no sand, sediment, stones or other foreign materials from entering completed sections of pipe. All sewers, fittings and manholes shall be tested and shall satisfactorily meet the test requirements prior to final acceptance of the work. The applicant or applicant's contractor shall supply all labor, weirs, pumps, valves, gauges, testing materials and equipment necessary to perform the testing to the satisfaction of the Authority.

The rate of infiltration/exfiltration shall not exceed 100 gallons per inch of inside diameter per mile of pipe per 24 hours. Repairs to the pipe shall be in kind, the use of clamps, chemical grouting or similar methods shall not be permitted. If leakage exceeds the allowable limits, repairs and/or replacements shall be made to permanently reduce the leakage to within the allowable limits and testing shall be repeated until infiltration/exfiltration conforms above requirements.

SECTION VII
APPROVAL OF PLANS BY STATE AGENCIES,
OCEAN COUNTY UTILITIES AUTHORITY AND OTHERS

The applicant must obtain approval of Plans and Specifications by the New Jersey Department of Environmental Protection and the Ocean County Utilities Authority prior to any construction being permitted. The applicant shall obtain any permits for Stream Encroachment or stream crossings, Wetlands, Wetland Transition Area Waivers, Coastal Area Facilities Review Act (CAFRA) from the appropriate section of the New Jersey Department of Environmental Protection. Permits to construct sewers and/or structures and appurtenances within the right-of-way limits of State, County or Municipal roads and all railroads must be secured and paid for by the applicant.

The applicant shall be required to secure or obtain any and all clearance or approvals from any public utility involved.

SECTION VIII
INSPECTION OF SEWERAGE SYSTEMS
DURING THE COURSE OF CONSTRUCTION

A. General

All construction of sewerage systems shall be under the jurisdiction of the engineer for the Authority, either directly or through inspectors under his supervision. The engineer shall enforce compliance with the approved plans and specifications. He shall have the authority to have the work discontinued in the event of non-compliance (N.J.S:40:26A-19).

The applicant shall provide a minimum of 72 hours notice to the Authority prior to commencement of construction of sewers at any time during the project construction.

The applicant shall submit a progress report at the end of each month, together with the cost of construction to the end of the month. He shall also furnish the name of the occupant, the street address, detailed triangulation measurements and the lot and block number of every connection made during the month and date of closing of title.

No sewer connections shall be made to a street main until the main has been pressure tested and witnessed by the Authority, the Authority Engineer or his inspection staff.

When a section of sewer is to be pressure-tested, all individual or house connections shall be pressure tested under a ten (10) foot head of water and found tight from the point of connection at the main to the lowest cleanout in the building. This cleanout shall be at least eight (8) inches above the basement floor elevation.

A temporary leak-proof bulkhead type of plug shall be installed in the upstream (inlet) side of the manhole furthest downstream in any sewer main or branch under construction and shall remain intact and unloosened until written permission is received from the Authority's Engineer to remove same. This permission will not be granted until each section of the sewer has been cleaned, flushed and video inspected in a manner acceptable to the Authority's Engineer.

B. Testing

Refer to Section VI above for testing methods and requirements. All sewer mains shall satisfactorily pass infiltration or exfiltration testing prior to any connections being allowed to that main.

SECTION IX

GENERAL

A. Turn-on Charge

When sewer service has been turned off from any premises because of violation of the Authority's Rules and Regulations or for non-payment of a bill, a charge as defined in Section IV and the Fee Schedule, payable in advance will be made for restoring the original connection.

B. Complaints

Complaints with respect to the character of the service furnished or the reading of the meters or of the bills rendered must be made at the Authority's office, in writing, and a record of the written complaints will be kept by the Authority, noting the name and address of the complainant, the date and nature of the complaint and the Authority's actions (if any).

C. Reasonable Access (N.J.S. 40A:26A-19)

The properly identified authorized agents of the Authority shall have the right of access to the premises served at all reasonable hours for the purposes of reading meters, examining fixtures and pipes, observing the manner of use and discharge of water and for any other purpose which is proper and necessary in the conduct of the Authority's business.

D. Prohibited Acts

No plumber, owner, tenant or other unauthorized person shall disconnect, alter or remove a building sewer or meter without the written consent of the Authority.

E. No Oral Agreements

No agent or employee of the Authority has authorization to bind it by any promise, agreement or representation not provided for in these rules and regulations.

F. Damage Claims

In all contracts for general or special sewer service, it is expressly understood and agreed that no claims will be made against the Authority for damage to life or property by reason of the breaking of any service pipe or appliance with the customer's premises, unless caused by the negligence of the Authority or its employees, nor for any damage done due to the failure of the sewerage capacity for any cause beyond the Authority's control.

No service will be furnished to any premises where any possibility exists of the mingling of storm water and sanitary waste; nor will the Authority permit its mains or service pipes to be connected in any way to any piping, tank, vat or other apparatus containing liquids, chemical or any other matter which may flow back into the Authority's service pipes or mains and consequently endanger the treatment process.

G. Installation and Maintenance of Service Lateral

The Authority reserves the right to determine the size and kind of service lateral and building sewer. Service laterals and building sewers of all sizes shall be constructed in accordance with the Authority's specifications. The Owner of the property shall maintain the service lateral from the property line to the building. Commercial and industrial building sewers shall be installed and maintained by the Owner and shall be inspected and approved by the Authority or his representative prior to backfilling the trench. All construction not receiving Authority approval shall be immediately removed and reconstructed in an approved manner.

H. Separate Trench

No building sewer shall be laid in the same trench with any gas pipe, water service or any other facility of any public service company, nor within three (3) feet of any open excavation, vault, meter pit, nor shall the location be in conflict with any sidewalk or driveway running at right angles to the front of the building. No trees shall be planted within any easement area where a sewer pipe or building sewer has been installed.

I. Maintenance by Owner

The Owner shall maintain and keep in good working order, all connections, service laterals, building sewers, oil/grease traps and appurtenances between the property line and the building. All leaks in the service lateral, building sewer or appurtenances for the premises served must be repaired or replaced immediately by the Owner of the premises. The Owner shall be responsible for notifying the Authority of the intended party engaged by said Owner to do any maintenance work in the customer's service lateral, building sewer or appurtenances prior to such work being commenced, and said party shall not backfill any trench until the work has been inspected and approved by the Authority's representative. Any work not acceptable shall be immediately removed and replaced by acceptable work.

J. Authority Not Responsible

The Authority shall in no way be responsible for maintaining any portion of the service lateral, building sewer, oil/grease traps and appurtenances or for damage done by sewage escaping there from; and the customer shall at all times comply with the applicable regulations with respect thereto and make changes therein required by reason of changes of grade, relocation of mains or otherwise.

K. Property Serviced by Single Service Lateral

A service lateral should not serve more than one property; but two or more service laterals, each of which for billing purposes shall be considered as being one customer account, may serve any such property, upon proper application by the Owner.

L. Prohibited Connections

Under no circumstances shall any of the following be connected to the sanitary sewers, either directly or indirectly:

- Floor drain, area drain or yard drain
- Rain conductor or downspout
- Grease pit
- Air conditioning equipment
- Sump pump discharge and foundation drains
- Stormwater inlets or catch basins
- Swimming pool discharge systems
- Drains from piece of equipment or manufacturing process, except when specifically authorized under the provisions of these Rules and Regulations.

M. Special Connections

Service laterals, building sewers to public building, churches, apartment houses, commercial establishments and industrial establishments shall be installed to conform to detailed Plans and Specifications submitted to the Authority by the applicant, and only after review and approval of those Plans and Specifications by the Authority.

N. Special Precautions in Wet Ground

Where the trench bottom is soft and yielding, the Authority reserves the right to require that the service be laid in partial or total concrete encasement. Junctions of two different types of pipe may, at the option of the Authority, be required to be encased in concrete of a mix determined by the Authority.

SECTION X

ACCEPTANCE OF NEW SEWERS BY THE AUTHORITY

After satisfactory completion of all structures proposed and upon certification of the Engineer for the applicant and the Engineer for the Authority, the applicant will:

1. Dedicate title to all lands, easements and sewer structures, except laterals previously conveyed to the Authority.
2. Post a Surety Bond (or Cash Bond) in a form approved by the Authority's Attorney, in an amount equal to ten percent (10%) of the Performance Bond guaranteeing the satisfactory performance of the system for a period of two (2) years from the date of acceptance.
3. Furnish all required copies of asbuilt plans, including mylar and .pdf digital copies and triangulation locations of all laterals.
4. Provide a Bill of Sale transferring all sewer mains, manholes and appurtenances to the Authority free and clear of all encumbrances or liens.
5. Provide payment to the Authority for any deficiencies in the escrow account.

Upon receipt of the above, the Authority will:

1. Release the applicant from the Performance Bond.
2. Accept title to all lands, easements, sewer structures and appurtenances.
3. Operate and maintain the system thereafter.

SECTION XI
INDUSTRIAL WASTES

A. Agreement Required:

The Authority will accept industrial wastes into the sanitary sewerage system upon execution of a formal, written agreement, and subject to the provisions appearing in said agreement, and the rules stated hereafter. The Agreement shall set out in detail the characteristics of the industrial wastes, the flow conditions, which shall govern, and the conditions with respect to the physical connection or connections. It will be the policy of the Authority to consider each application on its own merits and to establish specific conditions applicable to the particular situation for each agreement. No connection shall be permitted or made prior to execution of the Agreement.

B. Special Application:

Prior to approving an application for connection involving the acceptance of industrial wastes, the applicant shall submit complete data with respect to the following:

1. Average, maximum and minimum rates of flow to be expected daily and seasonally.
2. Flow diagram showing points of application of chemicals, type and quantity of each chemical used per day and per shift, a schedule of operations, expected chemical characteristics of the untreated wastes and the point or points of connection to the sewerage system. The normal situation will require the separation of and separate points of connection for domestic sewage and industrial wastes for each industrial establishment.

B. Prohibited Wastes:

Wastes containing the following substances or possessing the characteristics listed below will not be accepted:

1. Any vapors or steam.
2. Any fluids with temperatures in excess of 150 degrees Fahrenheit
3. Any fluid wastes which contain in excess of 100 parts per million of fat, oil or grease, either vegetable or mineral.
4. Any volatile, explosive or flammable substances such as benzene, gasoline, napha, fuel oil or similar substances.
5. Any solids or viscous matter which may cause any interference with flow of sewage, such as ashes, cinders, sand, mud, straw, shavings, metal, glass, rags, feathers, tar , plastics, wood, paunch manure, hair or similar substances.
6. Any fluid wastes having a pH value less than 5.5 or in excess of 9.0 or possessing other properties capable of causing damage or hazard to sewers, structures, treatment process(es), equipment or operating personnel.
7. Any wastes containing toxic or poisonous substances in sufficient concentrations to interfere with the sewage treatment process(es), to cause injury to animals or persons or to create an unacceptable condition in the receiving waters.
8. Any noxious or malodorous gas or substance that is capable of causing a public nuisance.
9. Any other waste prohibited by this Authority or the Ocean County Utilities Authority from being discharged into the collection system.

D. Grease, Oil and Sand Separators:

When, in the opinion of the Authority, grease, oil, and sand interceptors, or oil reclaimers are required, they shall be provided and maintained at the sole expense of the Owner in continuously efficient operating condition. Grease and oil interceptors shall be constructed of impervious materials capable of withstanding abrupt and extreme changes in temperature. They shall be watertight, substantially constructed and equipped with readily removable access covers. The Owner shall be responsible for maintenance of the grease, oil and/or sand interceptors or oil reclaimers and shall be subject to periodic inspection by the Authority and/or the Borough Plumbing Inspector.

SECTION XII

PRELIMINARY TREATMENT

- A. The Authority reserves the right to require preliminary treatment where the chemical characteristics of the proposed industrial wastewater, in the opinion of the Authority, the Ocean County Utilities Authority or in the opinion of the New Jersey Department of Environmental Protection, make such preliminary treatment desirable or mandatory.
- B. In such instances where it is agreed that the industrial wastewater will be received following preliminary treatment, drawings and specifications shall be submitted for approval, including details of a meter chamber-register type of fluid meter and housing to be used to meter the flow of industrial wastewater and also details of the meter chamber. The meter chamber shall be provided with adequate access covers of approved type through which access shall be possible to Authority representative at all times. A registered Professional Engineer, licensed in the State of New Jersey, shall prepare drawings, specifications, reports, etc.
- C. Where preliminary treatment facilities are required, they shall be provided and continuously maintained in an effective operating condition at all times and at the sole expense of the Owner.
- D. Each Owner connected shall be responsible for maintaining a quality of effluent from their premises that conforms to that previously established in their agreement with the Authority. Sampling and analysis shall be done to conform with accepted practice and in accordance with the requirements of the Authority.

- E. the cost of preparing and submitting the above for consideration by the Authority shall be borne by the Owner. Likewise, the cost of sampling and analysis to determine compliance with the terms of the agreement shall be borne by the Owner.

SECTION XIII

METER CHAMBER

- A. All commercial and industrial customers permitted to connect to the Authority's mains even though not initially being required to provide preliminary treatment, may still be required to provide a meter chamber.
- B. The meter chamber shall be installed on the property of the Owner and shall permit entry by the Authority representatives at any time.
- C. The meter chamber shall include as a minimum:
 - 1. A chart indicator-recorder capable of continuous recording and totalizing flow.
 - 2. An automatic sampling device for sampling the wastewater flow may be required.
 - 3. An electric pH meter with a daily chart for continuous recording of the wastewater pH, may be required.
- D. All equipment proposed must be submitted to the Authority for approval before installation.

SECTION XIV

FAILS TO CONFORM OR DOES DAMAGE

In the event that any customer fails to conform to these regulations or fails to comply with the terms and conditions of their agreement with the Authority, which failure causes damage of any sort to the Authority or Authority's employees, the Authority shall determine the extent of the damage and bill the industry accordingly. If such bill is not paid within five (5) calendar days from the date of the bill, legal action may be instituted to enforce collection, or the Authority may resort to termination of the connection after giving twenty-four (24) hour written notice. The Authority reserves the right to cancel the agreement upon one (1) year's written notice in the event of repeated failure to comply with the terms of the agreement or the Rules and Regulations of the Authority.

SECTION XV

CONNECTION FEE SCHEDULE

1. Connection to Authority's Mains

The Authority will make the physical connection to the Authority's main, furnishing and installing the service lateral between the main and the curb or property line, utilizing the contractor awarded the annual lateral and line extension contract. The applicant or owner shall submit the appropriate application for sanitary sewer service and will be required to submit payment for the estimated construction cost of the service lateral, based upon current contract prices. The applicant/owner shall be responsible to make up any difference between the estimated cost and the final cost of the installed service lateral prior to any physical connection being completed. It will be the responsibility of the applicant/owner to complete the connection from the cleanout provided at the property line to the house in accordance with local and state plumbing codes. No applicant or owner shall be permitted to undertake the installation of the service lateral between the main and property line unless written permission has been granted by the Authority. The Owner or applicant shall be responsible for payment of any and all permits, approvals, construction and restoration of pavements, curbs, sidewalks and dewatering if required.

In addition to the cost of the installation of the service lateral, each property owner/applicant shall be required to pay the appropriate connection fee based upon the current year's resolution setting forth the connection fee and annual user charge. A connection fee shall be required for each individual, residential service lateral, which

shall be paid at the time of application for service. No service lateral shall be installed unless the appropriate connection fee has been paid and the installation cost has been posted.

2. Connection Fee for Multiple Dwelling Units

The connection fee for multiple dwelling units shall be based upon the number of laterals installed and or if connected through a common lateral, shall be based upon equivalent dwelling units where each dwelling unit is anticipated to generate 200 gallons per day flow. So if an apartment building has ten (10) units, each generating an estimated 150 gallons per day (the estimated flow shall be based upon the current New Jersey Residential Site Improvement Standards), for the total flow of 1,500 gallons per day, the connection fee would be 1,500 gpd/200 gpd or 7.5 equivalent dwelling units.

3. Connection Fee for Commercial or Industrial Units

The connection fee for commercial or industrial units shall also be based upon equivalent dwelling units (EDU's) with each EDU representing 200 gallons per day of flow. As noted above, if the estimated flow generated by a commercial site is 400 gallons per day, the connection fee to be charged would be 400 gpd/200 gpd or 2 EDU's. The connection fee for each EDU shall be as published in the annual resolution of the Authority establishing the connection fee and annual user charge.

SECTION XVI

APPLICATION FEES AND ESCROW DEPOSITS

1. Application Fees

The applicant or developer filing an application for Preliminary and/or Final Approval of Sanitary Sewer Facilities shall be charged a non-refundable fee to cover administrative cost of processing such application based upon the following schedule:

Residential:	<u>No. of Lots</u>	<u>Application Fee</u>
	1-5 lots	\$50.00
	6-10 lots	\$100.00
	11-20 lots	\$200.00
	21 and over	\$250.00
Commercial	\$1.00 per square foot of gross floor area	
	Minimum charge \$100.00	
	Maximum charge \$500.00	

2. Review Escrow Deposits

The applicant shall provide an initial deposit to an account created to fund the review by Authority personnel and professionals. Deposits shall be posted pursuant to the following schedule:

- a. Residential: The greater of \$500.00 or \$120.00 per lot/dwelling unit
- b. Commercial: The greater of \$500.0 or \$1.00 per square foot of gross floor area

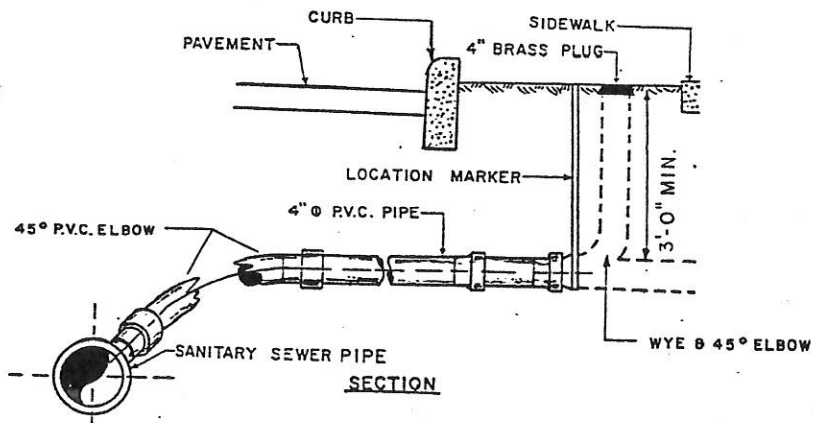
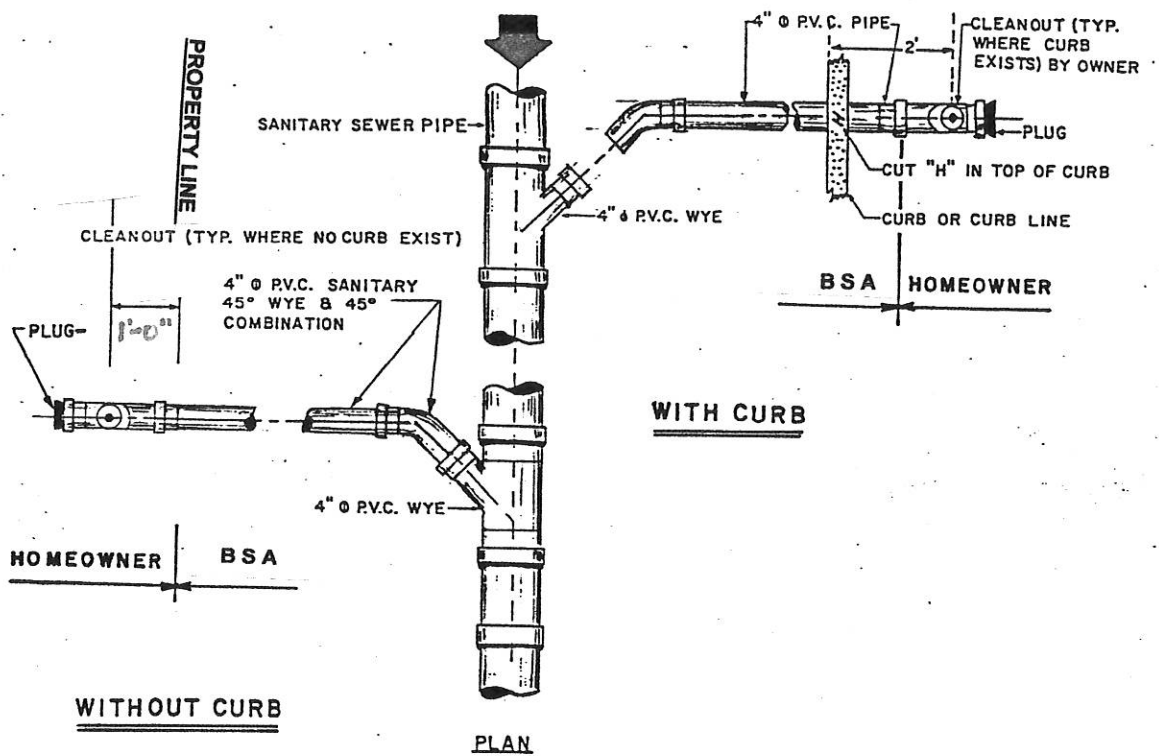
Review escrow deposits shall be placed in a replenishable account for both Preliminary and Final review services being drawn for such account. A separate account shall be established for each application with the applicant providing a completed and signed IRS form W-9 which will be utilized in establishing the escrow account. Escrow accounts may require replenishment depending on the complexity of the application, and whenever the balance in the escrow account drops below \$100.00. Each applicant shall be provided

with a letter indicating the need for account replenishment and the amount to be deposited based upon an estimate of costs to complete the review. Escrow deposits shall be held in an interest bearing account with any remaining balances to be returned to the applicant upon completion of the project.

3. Inspection Escrow Deposits

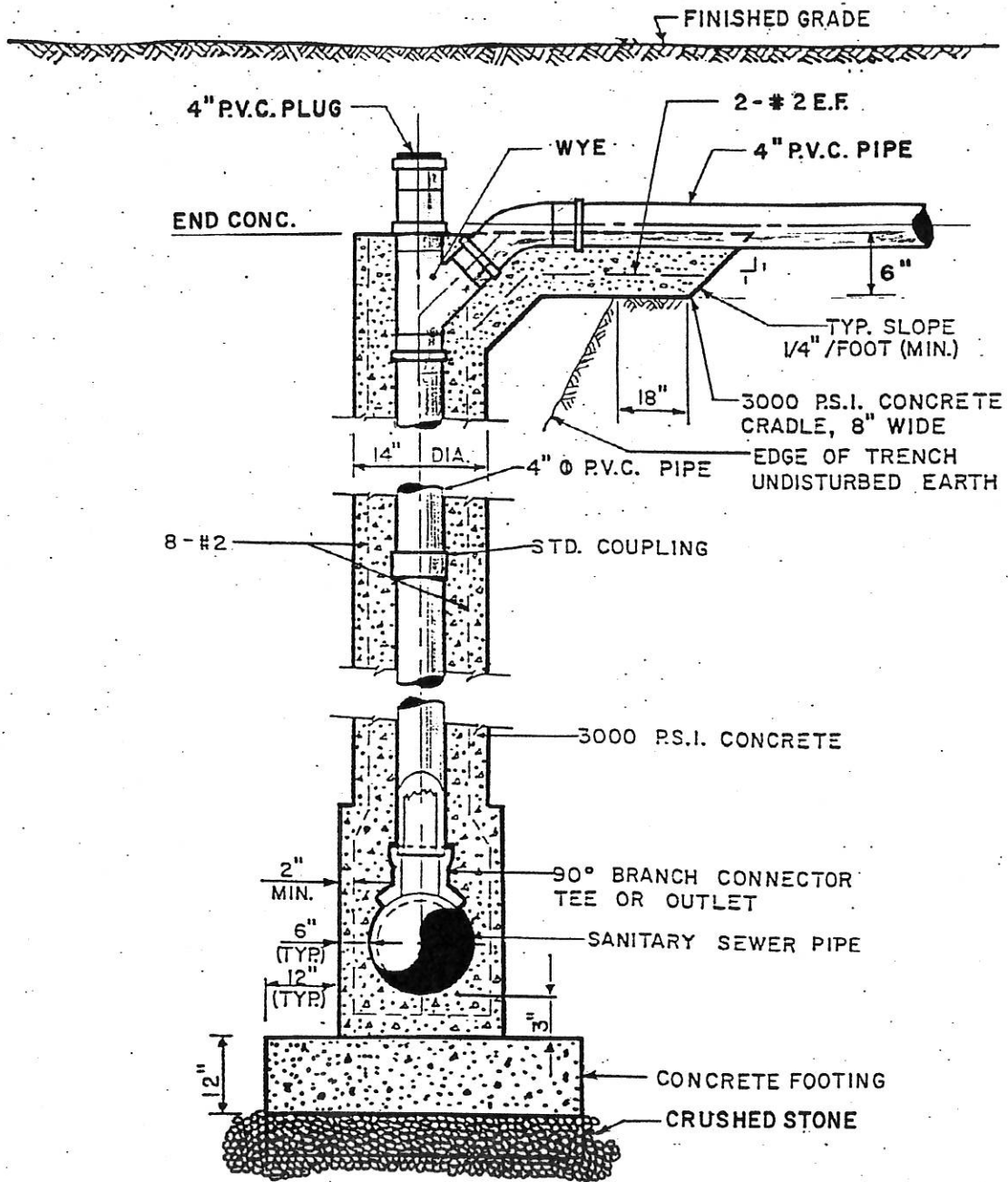
The applicant shall submit an escrow deposit in an amount equal to eight percent (8%) of the estimated construction cost or \$500.00 whichever is greater. Monies will be drawn from this account on a monthly basis as inspections are performed. As with the review escrow deposits, it may be necessary to replenish the inspection escrow account whenever the account balance drops below \$100.00. Any remaining balances in the escrow account shall be returned to the applicant upon completion and acceptance of the project.

XVII. EXHIBITS



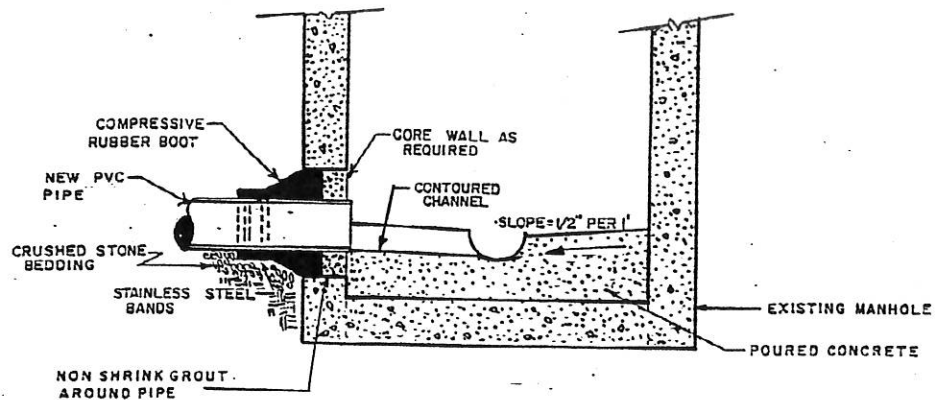
Typical 4" House Connection Lateral

BEACHWOOD SEWERAGE AUTHORITY



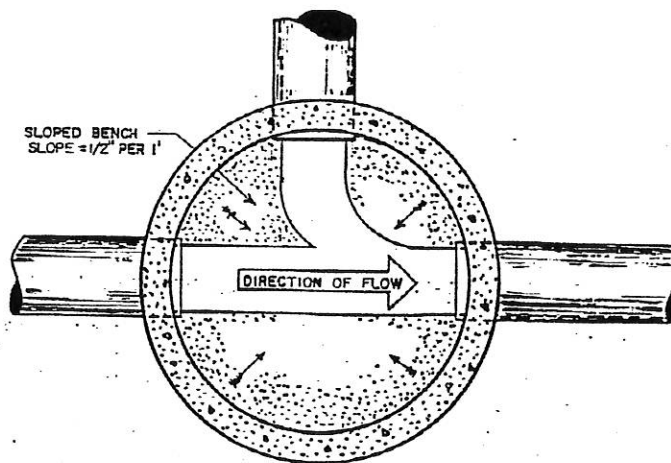
Deep House Connection for Sewer

BEACHWOOD SEWERAGE AUTHORITY



Connection To Existing Manhole

N.T.S.



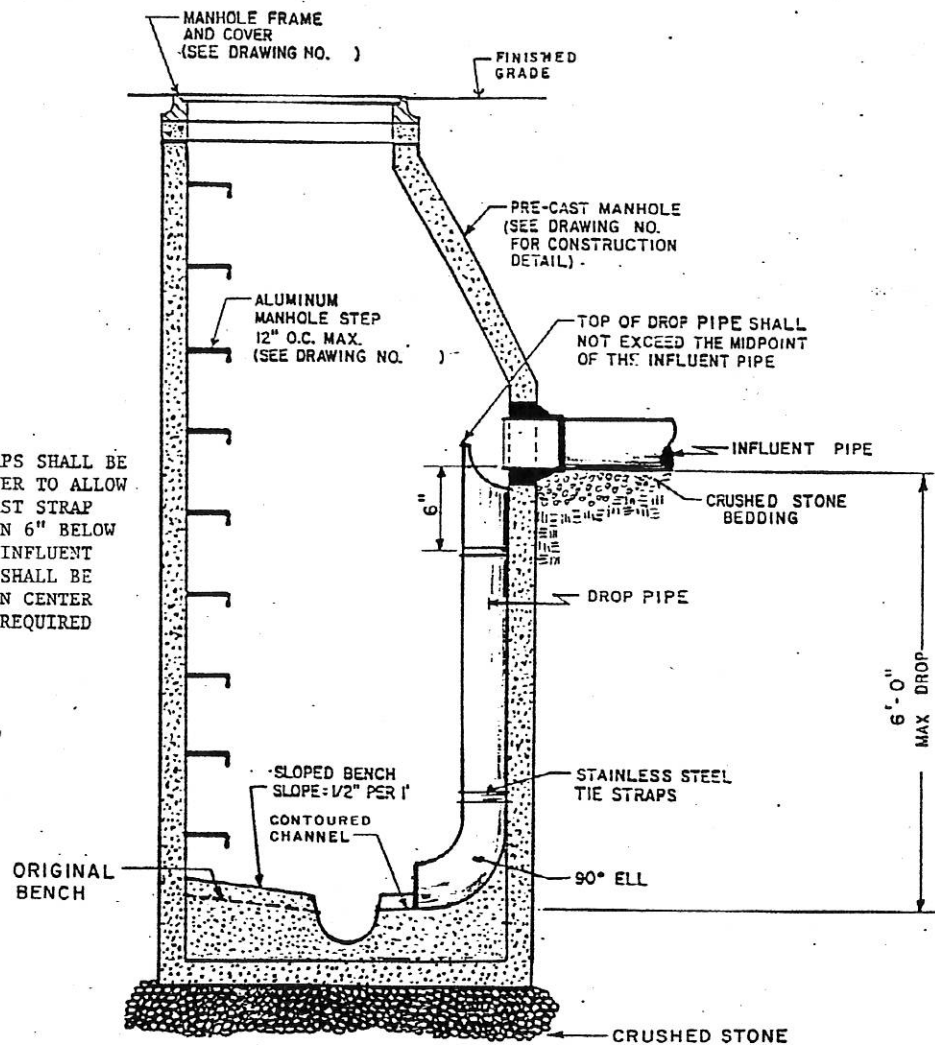
Typ. Manhole Channel

N.T.S.

Connection to Existing Manhole
&
Typical Manhole Channel

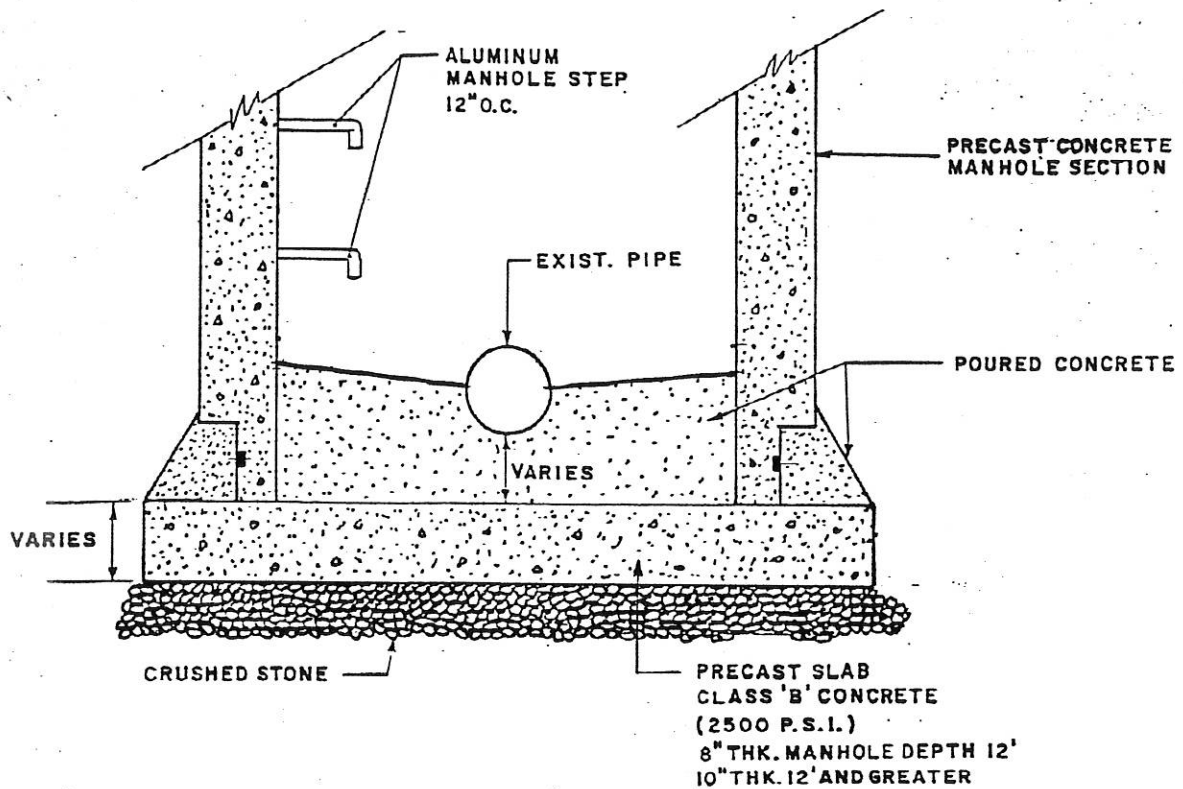
BEACHWOOD SEWERAGE AUTHORITY

STAINLESS STEEL TIE STRAPS SHALL BE INSTALLED IN SUCH A MANNER TO ALLOW FOR FUTURE REMOVAL. FIRST STRAP SHALL BE INSTALLED WITHIN 6" BELOW THE INVERT ELEV. OF THE INFLUENT PIPE. REMAINING STRAPS SHALL BE SPACED A MINIMUM OF 3' ON CENTER AND WITHIN 6" BELOW ANY REQUIRED INTERMEDIATE JOINTS.



Drop Connection (Inside)

BEACHWOOD SEWERAGE AUTHORITY

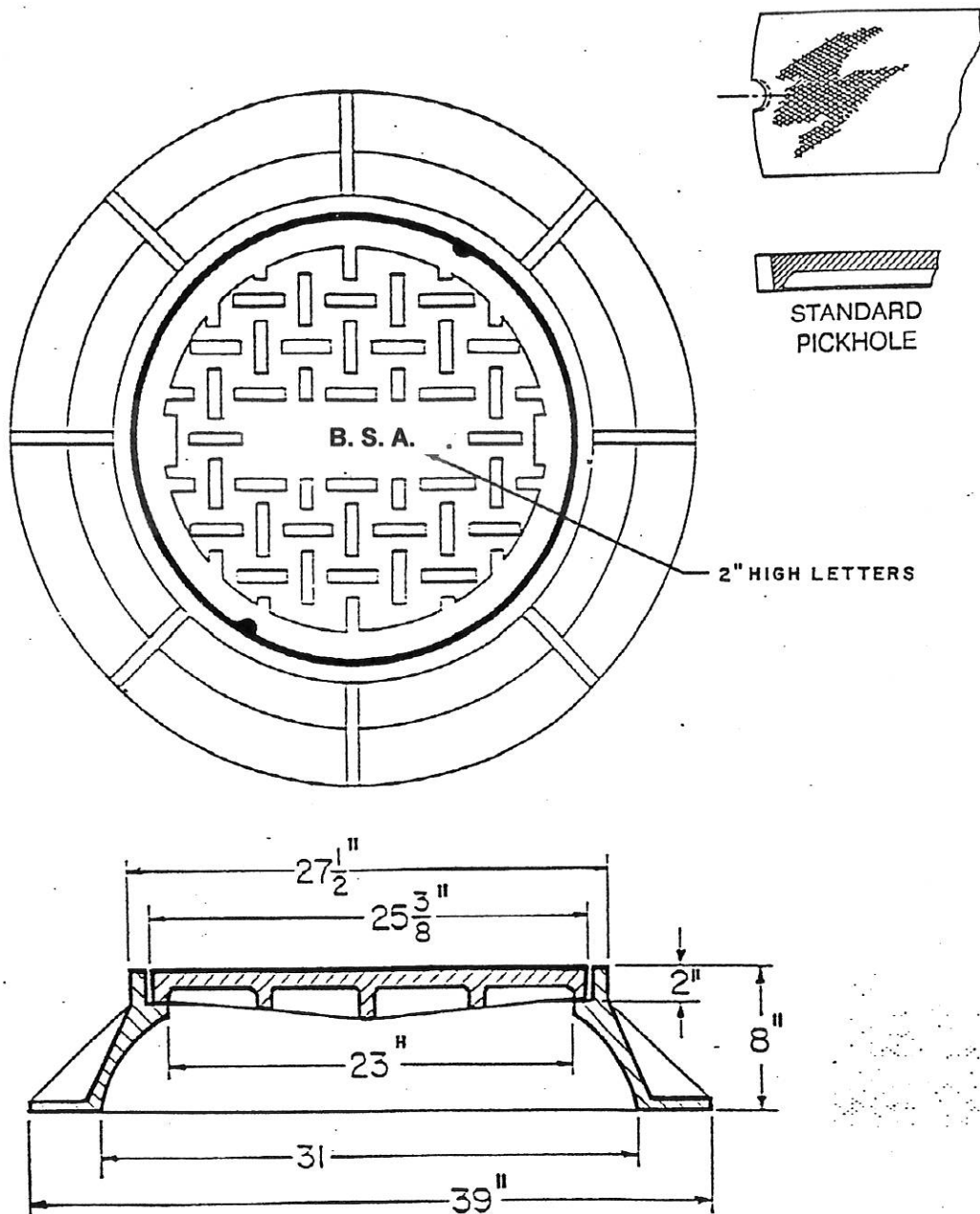


Dog House Manhole

NOTE: CONSTRUCT MANHOLE BY USING PRECAST SLAB AND POURING CONCRETE AROUND THE PIPE. AFTER CONCRETE SETS CUT TOP OF EXISTING PIPE.

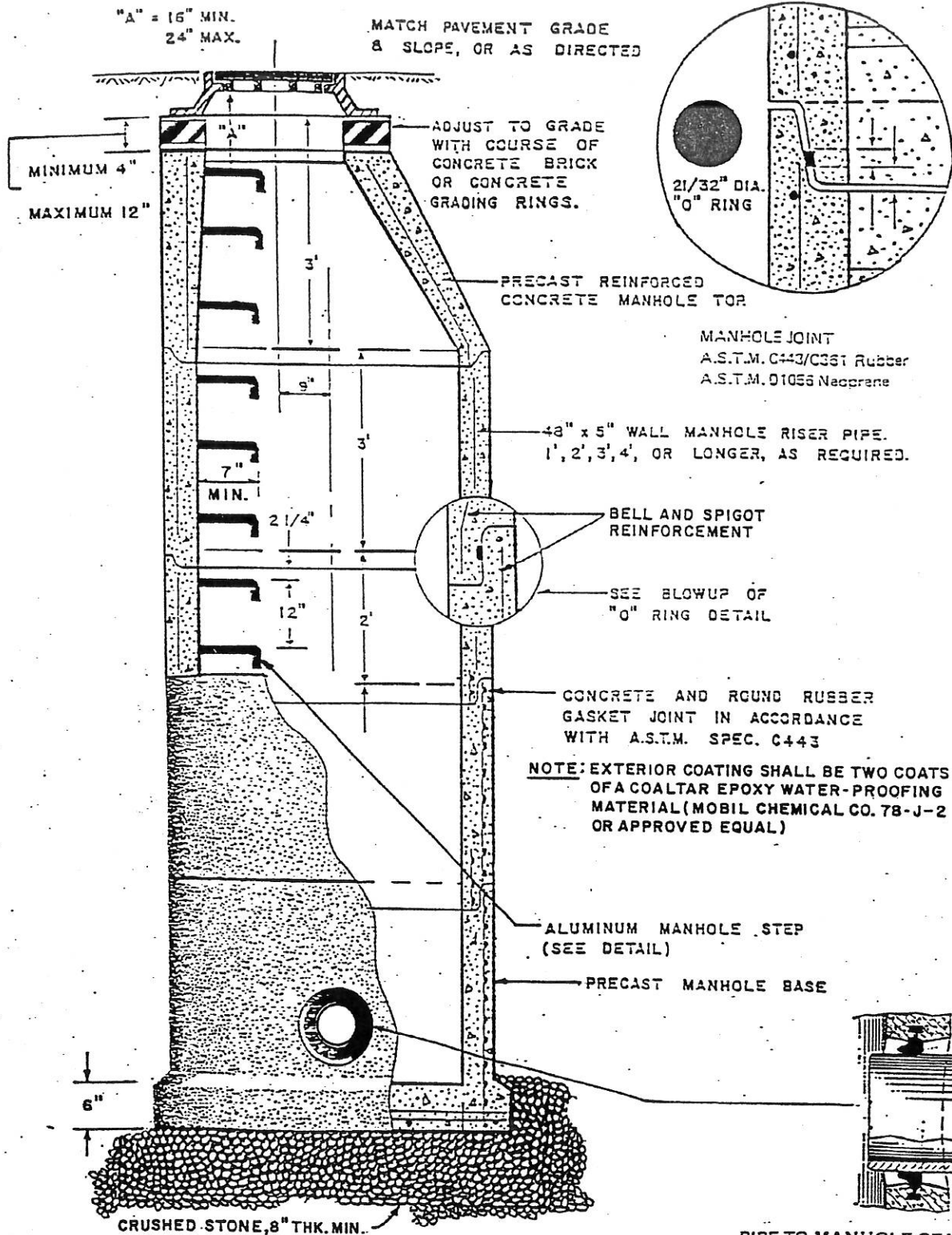
**Doghouse Manhole
Detail**

BEACHWOOD SEWERAGE AUTHORITY



**Manhole Frame
and Cover**

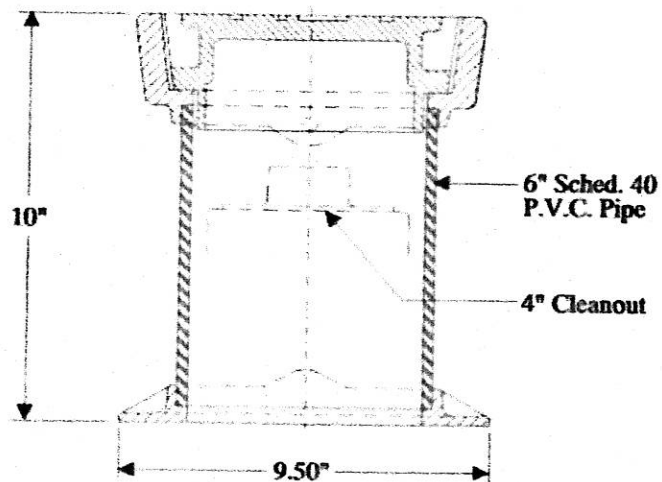
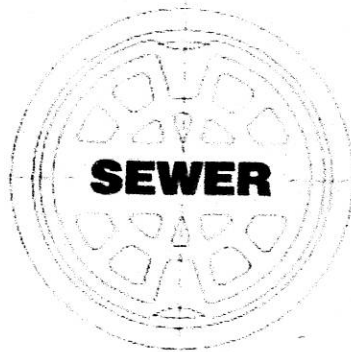
BEACHWOOD SEWERAGE AUTHORITY



Precast Concrete Manhole

Precast Concrete Manhole
Detail

BEACHWOOD SEWERAGE AUTHORITY



CC4 Box for
Sewer Cleanout Risers

BEACHWOOD SEWERAGE AUTHORITY

