

**The Deptford Township
Municipal Utilities Authority
P.O. Box 5506
Deptford, New Jersey 08096**

RATES, RULES AND REGULATIONS

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TABLE OF CONTENTS

Section 1	Introduction and Definitions	1-1
1.1	Purpose	1-1
1.2	Office of Authority and Hours of Business	1-1
1.3	Definitions	1-1
1.4	Deptford Township Ordinance	1-5
Section 2	Schedule of Services	2-1
2.1	Schedule I - Water and Sewer Connection and Disconnection	2-1
2.2	Schedule II – Sewer Service	2-6
2.3	Schedule III – Water Services	2-9
2.4	Schedule IV – Meter Size	2-10
2.5	Schedule V – Meter Sizes and Requirements	2-12
2.6	Schedule VI – Fire Services	2-12
2.7	Schedule VII – Miscellaneous Services	2-13
Section 3	Domestic Service	3-1
3.1	Service to New Customers through Existing Connections	3-1
3.2	Landlord - Tenant Responsibility	3-2
3.3	Discontinuation of Customer Service	3-2
3.4	Tampering with the Meter	3-2
3.5	Bankruptcy	3-2
Section 4	Public Fire Service	4-1
4.1	Hydrant Locations	4-1
4.2	Maintenance	4-1
4.3	Allowable Uses	4-1
4.4	Change of Location	4-1
4.5	Inspection	4-1
4.6	Notification	4-1
4.7	Offsite Hydrant Installation	4-1
Section 5	Private Fire Service	5-1
5.1	Automatic Devices and Hydrants	5-1
5.2	Ownership and Location	5-1
5.3	Private Un-metered Fire Service	5-1
5.4	Bills Rendered and Due	5-1
5.5	Private Hydrant Maintenance and Repairs	5-1

Section 6	<i>Use of Water for Temporary Purposes</i>	6-1
6.1	Special Application – Hydrant Permit	6-1
6.2	Theft of Services	6-1
Section 7	<i>Industrial and Commercial Services</i>	7-1
7.1	General Provisions	7-1
7.2	Prohibitions and Limitations on Wastewater Discharges	7-7
7.3	Control of Prohibited Wastes	7-14
7.4	Industrial Discharge Permit	7-16
7.5	Enforcement Procedures	7-22
7.6	Fees	7-27
7.7	Miscellaneous	7-27
Section 8	<i>Main Extensions: Water and Sewer</i>	8-1
8.1	General Provisions	8-1
8.2	Applications - General	8-2
8.3	Application for Feasibility - Form A	8-3
8.4	Application for Preliminary Approval - Form B	8-4
8.5	Application for Construction Approval - Form C	8-6
8.6	Application for Acceptance - Form D	8-9
8.7	Application for Connection of an Individual Dwelling Unit into the Existing Authority System - Form E	8-10
8.8	Application for Industrial and/or Commercial Water and/or Sewer Connection - Form F	8-12
8.9	Performance & Maintenance Bond Procedures	8-12
8.10	Chart I – Summary of Application Forms	8-35
8.11	Chart II – Summary of Authority Action	8-37
Section 9	<i>Connections and Service Lines: Water</i>	9-1
9.1	Authority Service Line	9-1
9.2	Size and Kind of Service Line	9-1
9.3	Separate Trench	9-1
9.4	Maintenance by Customer	9-2
9.5	Authority Not Responsible	9-2
9.6	Replacment/Repair of Existing Service Lines	9-2
9.7	Property Supplied by Single Service	9-2
9.8	Single Service Line with Two or More Customers	9-3
9.9	Fire Protection Sprinkling Systems	9-3

9.10	Irrigation Systems	9-3
Section 10 Connections and Service Lines: Sewer		10-1
10.1	Authority Service Line	10-1
10.2	Size and Kind of Service Lateral.....	10-1
10.3	Service Lateral Placement	10-1
10.4	Elevation of Sanitary Fixtures	10-2
10.5	Maintenance and Ownership by Customer	10-2
10.6	Responsibility of Authority.....	10-2
10.7	Prohibited Connections.....	10-3
10.8	Special Connections	10-3
10.9	Special Precautions in Wet Ground	10-3
10.10	Property Served by Single Service Lateral	10-3
10.11	Single Service Lateral with Two or More Customers	10-4
10.12	Policy on Blockages.....	10-4
10.13	Policy on Missing or Damaged Curb Clean-Out Caps	10-4
10.14	Unauthorized Connection	10-4
10.15	Construction Safeguards	10-4
Section 11 Water Meters		11-1
11.1	All Water Services shall be metered.....	11-1
11.2	Service Fee	11-1
11.3	Location.....	11-1
11.4	Valves Required.....	11-1
11.5	Responsibility for Damage	11-2
11.6	Cost of Reinstallation	11-2
11.7	Minimum Charge.....	11-2
11.8	Authority to be Notified When Meter Not Working	11-2
11.9	Registration Conclusive	11-2
11.10	Water Meter Testing Schedule	11-2
11.11	Industrial/Commercial Water Meters	11-3
11.12	Disputed Account.....	11-3
11.13	Request Test.....	11-3
11.14	Turn On or Off Without Authority	11-4
11.15	Tampering With Water Meter	11-4
11.16	Damage to System Penalty	11-4
Section 12 Minimum Technical Design Standards - Sewerage		12-1

12.1	Separate Sewers Required.....	12-1
12.2	Summary of Information Required.....	12-1
12.3	Preparation of Sewer Maps and Plans	12-1
12.4	Profiles	12-2
12.5	Standard Details of Construction	12-2
12.6	Specifications.....	12-3
12.7	The Engineer's Report.....	12-3
12.8	Capacity and Design Period	12-3
12.9	Materials, Minimum Grades and Velocity of Flow	12-4
12.10	Inverted Siphon	12-5
12.11	Joints.....	12-5
12.12	Manholes.....	12-5
12.13	Pumping Stations.....	12-6
12.14	Auxiliary Electrical Power.....	12-8
12.15	Checklist.....	12-10
Section 13 Minimum Technical Design Standards - Water		13-1
13.1	Preliminary Plans	13-1
13.2	Applications for Approval	13-1
13.3	Engineering Data to be submitted to the Department of Environmental Protection ..	13-1
13.4	Engineer's Report	13-2
13.5	Maps.....	13-2
13.6	Plans	13-3
13.7	Specifications.....	13-3
13.8	Ground Water Supplies	13-3
13.9	Distribution Systems	13-8
13.10	Distribution Storage	13-10
13.11	Checklist.....	13-11
Section 14 Related Technical Standards - Sewer		14-1
14.1	General.....	14-1
14.2	Polyvinyl Chloride (PVC) Sewer Pipe	14-1
14.3	Ductile Iron Epoxy Lined Pipe.....	14-2
14.4	Manholes.....	14-2
14.5	Manhole Appurtenances	14-3
14.6	Drop Manholes.....	14-4
14.7	Laterals.....	14-4

14.8	Testing	14-5
14.9	Force Mains	14-5
14.10	Polyvinyl Chloride (PVC) Sewer Pipe	14-6
Section 15 Related Technical Standards - Water.....		15-1
15.1	Water Mains.....	15-1
15.2	Ductile Iron Cement Lined Pipe and Fittings	15-1
15.3	Gate Valves.....	15-1
15.4	Valve Boxes	15-2
15.5	House Connections.....	15-2
15.6	Fire Hydrants.....	15-2
15.7	Water Services.....	15-3
15.8	Thrust Blocks	15-6
15.9	Testing	15-6
15.10	Disinfection.....	15-6
15.11	Pipe Bedding.....	15-6
15.12	Pipe through Walls.....	15-6
15.13	Pipe Crossings.....	15-6
15.14	Blow-offs	15-7
15.15	Wet Taps.....	15-7
15.16	Retaining Flanges	15-7
15.17	Miscellaneous	15-7
Section 16 Related Technical Standards - General		16-1
16.1	Cement.....	16-1
16.2	Aggregates.....	16-1
16.3	Water.....	16-1
16.4	Concrete.....	16-1
16.5	Reinforcement Steel	16-2
16.6	Wire Mesh or Fabric.....	16-2
16.7	Concrete Block.....	16-2
16.8	Brick	16-2
16.9	Mortar	16-2
16.10	Iron Castings	16-2
16.11	Ladder Rungs - Aluminum	16-2
16.12	Excavation and Earthwork	16-3
16.13	Pipe Laying and Installation.....	16-4

16.14	Safety Compliance	16-5
16.15	As-Built Plans	16-5
Section 17 Observation and Testing Of Installed Facility		17-1
17.1	Observation of Sewerage and/or Water Distribution System during Course of Construction	17-1
17.2	Testing of Completed System	17-1
17.3	Pressure Tests	17-2
17.4	Miscellaneous Requirements of Completed Water Systems	17-3
Section 18 Billing, Payments and Delinquencies		18-1
18.1	Rendering of Bills for Water and Sewer Service	18-1
18.2	Payment Schedule	18-1
18.3	Fees	18-1
18.4	Delinquent Accounts	18-1
18.5	Discontinuance of Service	18-2
18.6	Renewal Service	18-2
18.7	Continuing Obligation to Pay Service Charge	18-2
18.8	Reserve Supply	18-2
Section 19 Responsibility for Service		19-1
19.1	Complaints	19-1
19.2	Reasonable Access	19-1
19.3	Oral Agreements	19-2
19.4	Single Service Water Only	19-2
19.5	Single Service Sewer Only	19-2
19.6	Emergency	19-2
19.7	Discharges	19-2
19.8	Mandatory Water and Sewer Connection	19-2
Section 20 Fee Schedule		20-1
20.1	Connection of Water and Sewer Services	20-1
20.2	Sewer Service Charge per Month	20-1
20.3	Charges for Water Meter Services	20-1
20.4	Excess Water Usage Rate	20-2
20.5	Fire Service Charges	20-2
20.6	Miscellaneous Charges	20-3
20.7	Meter Service Charges	20-3
20.8	Special Application Hydrant Permit	20-4

20.9	Application Fees Forms A, B, C, D, E, F	20-4
20.10	Attorney Fees	20-6
Section 21 Appendix A.....		21-1
21.2	Deptford Township Municipal Utilities Authority Construction Notes & Details	21-1
	DTMUA General Construction Notes #1	21-2
	DTMUA General Construction Notes #2	21-3
	Figure 1 Precast Sanitary Manhole	21-4
	Figure 2 Sanitary Sewer Precast Concrete Drop Manhole	21-5
	Figure 3 Sanitary Service Lateral.....	21-6
	Figure 4 Sanitary Sewer Deep Cut Lateral Connection	21-7
	Figure 5 Exterior Grease/Water Separator.....	21-8
	Figure 6 PVC/DIP Sanitary Sewer Trench	21-9
	Figure 7 Water Main Typical Service.....	21-10
	Figure 8 Fire Hydrant	21-11
	Figure 9 Thrust Block.....	21-12
	Figure 10 Water Main Trenching and Road Restoration	21-13
	Figure 11 Inside Water Meter Installation.....	21-14
	Figure 12 Fire Service Check Valve	21-15
	Figure 13 Water Main Offset	21-16
	Figure 14 Sanitary Sewer Cleanout Protection Box	21-17
	Figure 15 Connection to Existing Manhole	21-18
	Figure 16 Utility Crossings	21-19

Section 1 Introduction and Definitions

1.1 Purpose

The purpose of the Authority is to implement the Municipal utilities Authorities Law, N.J. Laws of P.L. 1957, c. 183, §1, amended by P.L. 1977, c. 384, §2, N.J.S.A. 40:14B-2 *et seq*, in the public interest for the Township of Deptford in the County of Gloucester and in the State of New Jersey, in order to foster and promote relief of waters from pollution and abate the menace to public health. These Rates, Rules, and Regulations are established for the conduct of the Authority's business, to cover the use of sanitary sewers, pump stations and sewage treatment plants, water distribution systems, wells, reservoirs, standpipes, elevated tanks and all items related to public sewer systems and water works, to provide a schedule of fees and rates, and to outline allowable procedures and whatever else is deemed proper within the sphere of the Authority's activity.

1.2 Office of Authority and Hours of Business

The principal office of the Authority, place of business is 898 Cattell Road, Wenonah, New Jersey and mailing address is P.O. Box 5506, Deptford, Gloucester County, New Jersey 08096.

The office of the Authority will be open for the purpose of the transaction of regular business between the hours of 8:00 a.m. and 4:00 p.m., prevailing time, each weekday, Monday through Friday except holidays.

1.3 Definitions

Unless the context specifically indicates otherwise, the meaning of the terms used in these Rates, Rules and Regulations shall be as follows:

1. Authority shall mean the Deptford Township Municipal Utilities Authority.
2. Apartment shall mean one (1) of a series of attached one-family dwelling units of common ownership each having a common wall between it and neighboring units, and which shares with its attached neighboring dwelling units such facilities as pedestrian walks, gardens, lawns, utilities, sanitary systems, and recreation areas.
3. Biochemical Oxygen Demands (BOD) shall mean the quantity of oxygen utilized in the biochemical oxidation of organic matter under standard laboratory procedure in five (5) days at 20°C, expressed in milligrams per liter.
4. Building drain shall mean that part of the lowest horizontal piping of a drainage system which receives the discharge inside the walls of the building and conveys it to the building sewer, beginning five (5) feet (1.5 meters) outside the inner face of the building wall.
5. Building sewer shall mean the extension from the building drain to the public sewer

- or other place of disposal, also called house connection or lateral.
6. Commercial water meters shall mean any water meter for commercial use of a size of three quarters on an inch ($\frac{3}{4}$ ") and one inch (1") serviced and maintained by the owner.
 7. Customer shall mean the applicant for water and/or sewer service at one household or business, whether owner or tenant, and who enter into an agreement therefore.
 8. Disconnected property shall mean a property that has been physically disconnected from the water and/or sewer system or a property not physically disconnected but to which service has been discontinued without payments being made. A "disconnected property" shall not include a property that has been temporarily disconnected from the water and/or sewer system or to which service has been discontinued without payments being made for less than 12 consecutive months and is being reconnected as it existed, prior to the temporary disconnection or discontinuance of service.
 9. Domestic Consumer Unit shall mean a single dwelling or structure normally occupied by a single family.
 10. 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.
 11. DTMUA shall mean the Deptford Township Municipal Utilities Authority.
 12. Easement shall mean an acquired legal right for the specific use of land owned by others.
 13. Executive Director shall mean the general manager of the water and sewer systems in the Township of Deptford or his/her authorized deputy or representative.
 14. Floatable oil is oil, fat or grease in a physical state such that it will separate by gravity from wastewater by treatment in an approved pretreatment facility. The wastewater shall be considered free of floatable fat if it is properly pretreated and the wastewater does not interfere with the collection system.
 15. Garbage shall mean the animal and vegetable waste resulting from the handling, preparation, cooking, and serving of foods.
 16. GCUA shall mean the Gloucester County Utilities Authority.
 17. Industrial Water Meter shall mean any water meter for commercial or industrial use of a size equal to or greater than one and one-quarter inch ($1\frac{1}{4}$ ") serviced and maintained by the owner.
 18. Industrial wastes shall mean the wastewater from industrial processes, trade, or business as distinct from domestic or sanitary wastes or sewage.
 19. Lateral shall mean the service line owned by the customer and extending from the

- dwelling or establishment to the curb.
20. Main shall mean the Authority owned or leased piping and appurtenances, in or along public highways and streets, or along privately-owned right-of-way, used for the transmissions or distribution of water to or for the collection of domestic sewage or industrial wastes from its customer.
 21. Materially increases shall mean any increase in the number of domestic consumer units or equivalent domestic consumer units; or any other change which increases the level of use or demand on the water and/or sewer system by 15 percent or more over the highest actual annual use and demand that existed during the prior 10-year period immediately preceding the addition, alteration, or change in use; provided, however, that, if the property has been connected to the water and/or sewer system for less than 10 years, the average level of use and demand shall be calculated based on the actual period of connection.
 22. May is permissive (see Shall 1.23).
 23. MUA shall mean the Deptford Township Municipal Utilities Authority.
 24. NJDEP shall mean the New Jersey Department of Environmental Protection.
 25. Person shall mean any individual, firm, company, association, society, corporation, or group.
 26. pH shall mean the logarithm of the reciprocal of the hydrogen ion concentration. The concentration is the weight of hydrogen ions, in grams, per liter of solution on a scale of zero to fourteen (0-14). Neutral water, for example, has a pH value of 7.
 27. Properly shredded garbage shall mean the wastes from the preparation, cooking, and dispensing of food that have been shredded to such a degree that all particles will be carried freely under the flow conditions normally prevailing in public sewers, with no particle greater than 1/2 inch (1.27 centimeters) in any dimension.
 28. Public sewer shall mean a common sewer controlled by a governmental agency or public utility.
 29. Sanitary sewer shall mean a sewer that carries liquid and water-carried wastes from residences, commercial buildings, industrial plants, and institution together with minor quantities of ground, storm and surface water that are not admitted intentionally.
 30. Sewage is the spent water of a community.
 31. Sewer shall mean a pipe or conduit that carries wastewater or drainage water.
 32. Shall is mandatory (see May, 1.15).
 33. Single Family Dwelling shall mean a building on a lot designed and occupied exclusively as a residence for one family.
 34. Slug shall mean any discharge of water or wastewater which, in concentration of any

given constituent or in quantity of flow, exceeds for any period or duration longer than fifteen (15) minutes more than five (5) times the average twenty-four (24) hour concentration of flows during normal operation and shall adversely affect the collection system and/or performance of the wastewater treatment works.

35. Storm drain (sometimes termed "storm sewer") shall mean a drain or sewer for conveying water, groundwater, sub-surface water, or unpolluted water from any source.
36. Superintendent shall mean the manager of the water or wastewater facilities; and/or water distribution and/or wastewater collection systems of the Township of Deptford, or the authorized deputy representative.
37. Suspended solids shall mean total suspended matter that either floats on the surface of, or is in suspension in, water, wastewater, or other liquids, and that is removable by laboratory filtering as prescribed in "Standard Methods for the Examination of Water and Wastewater", latest edition of the American Public Health Association, Washington, D.C., 1971, and referred to as non-filterable residue.
38. Townhouse or Condominium Unit shall mean one of a series of attached one family dwelling units each having common or party wall or walls between it and neighboring dwelling units. Each townhouse shall have separate and individual utility systems.
39. Unpolluted water is water of quality equal to or better than the effluent criteria in effect for the receiving water, or water that would not cause violation of receiving water quality standards.
40. Wastewater shall mean the spent water of a community. From the standpoint of source, it may be a combination of the liquid and water-carried wastes from residences, commercial buildings, industrial plants, and institutions, together with minimal groundwater, surface water, and storm water that may be present.
41. Wastewater facilities shall mean the structures, equipment, and processes required to collect, carry away, and treat domestic and industrial wastes and dispose of the effluent.
42. Wastewater treatment works shall mean an arrangement of devices and structures for treating wastewater, industrial wastes, and sludge. Sometimes used as synonymous with "waste treatment plant" or "wastewater treatment plant" or "water pollution control plant".

1.4 Deptford Township Ordinance

An Ordinance Regulating and Providing for the Construction of Sewer and Water Line Connections and the Installation of Toilet Facilities

WHEREAS the Township Council of the Township of Deptford deems it necessary to establish standard, efficient and effective provisions for the connection of sewer and water lines, and make provisions for the installation of toilet facilities in such buildings that do not provide for same in accordance with the provisions of N.J.S.A. 40:63-52, et sec. and N.J.S.A. 40:14b *et seq.*

NOW THEREFORE BE IT ORDAINED By the Township Council of the Township of Deptford:

ARTICLE I
CONNECTIONS

DEFINITIONS

As used in this Ordinance of the Township of Deptford, in the County of Gloucester and State of New Jersey, unless a different meaning clearly appears from the context, the following words shall have the following meanings:

BUILDING - means any building or structure heretofore or hereafter constructed and designed or used for dwelling occupancy by persons.

SEWER - means any sewer or main designed or used for collection or disposal of sanitary sewage within the Township, which is owned and operated by the Deptford Township Municipal Utilities Authority.

WATER - means any water or main designed or used for supplying the public with water from plants within the township, which are owned and operated by the Deptford Township Municipal Utilities Authority.

CONNECTION DATE - When used with respect to a building constructed prior to the date of the initial operation, as part of any sanitary treatment and disposal system and water system in the Township owned or operated by the township or the Deptford Township Municipal Authority, of sewer and water available to serve said building, means the 90th days, and when used with respect to a building constructed after the date of initial operation, as a part, of any sanitary sewage treatment and water disposal system and water facilities owned or operated by the Township or said Authority of sewage and water available to serve said building means the sixteenth day after the date of initial occupancy, of said building, whichever of said dates shall be earlier in point of term.

CONNECTION REQUIRED

The owner of each property along the line of any sewage or water main now or here after constructed in the Township by the Township of Deptford or by the Deptford Township Municipal Utilities Authority shall connect each building on such property with sewer and/or

water prior to the connection date with respect to said building.

The owner of each building located anywhere in the Township in which a sewer is now constructed or shall be hereafter constructed shall prior to such connection date with respect to such building.

Install a toilet in such building unless a toilet is installed therein

Shall connect such building and the toilet therein with such sewer

MATERIAL SPECIFICATIONS

SEWER CONNECTION - every connection required by this Ordinance shall be made with cast-iron soil pipe from inside the building to a point not less than five (5) feet outside the building. From this point to the sewer main, cast-iron pipe caulked and leaded or asbestos cement pipe with slip-joint rubber gaskets may be used. All pipes must be not less than four (4) inches in diameter.

WATER CONNECTIONS - every connection required by this Ordinance shall be made with such materials as specified by the Plumbing Code or Ordinance now in effect or hereafter adopted, and in the absence thereof which such materials and sizes of pipe as may be directed by the Deptford Township Municipal Utilities Authority.

FAILURE TO MAKE CONNECTION

If, after the passage of this Ordinance, the owner of any properties affected thereby, shall neglect, after lawful notice is provided, to make any water and/or sewer connection, or installation of toilet, the Deptford Township Municipal Utilities Authority may cause such connection or installation to be made under the direction and supervision of its Executive Director, or such officer of the Deptford Township Municipal Utilities Authority or may award one or more contracts for the making of such improvements.

NOTICE OF INTENTION TO DO WORK

Before proceeding to make any such connection or installation or awarding contract for the making thereof, the Deptford Township Municipal Utilities Authority shall cause notice of such contemplated connection or installation to be given to the owner of any properties affected thereby.

The notice shall contain a description of the property affected, sufficiently definite in terms to identify it, as well as a description of the required connection or installation and notice that unless the connection or installation shall be completed within thirty (30) days after the service thereof, the Deptford Township Municipal Utilities Authority, pursuant to the grant of authority given it by the Township of Deptford will proceed to make such connection, or cause the same to be done, pursuant to the authority of N.J.S.A. 40:63-54, and also pursuant to the authority of these Regulations.

SERVICE OF NOTICE

The notice may be served upon the owner or owners resident in the municipality in person, or by leaving it at their usual place of residence with a member of their family above the age

of fourteen years, or if any such owner shall not reside in the municipality, such notice may be served upon him/her personally, or be mailed to his/her last known post-office address, or it may be served upon the occupant of the property, or upon the agent of the owner in charge thereof. Notice to infant owners of unsound mind shall be served upon their guardians. When lands are held in trust service shall be made upon the trustee. When properties are held by two or more joint tenants, tenants in common, or tenants by the entirety, service upon one shall be sufficient, and shall be deemed and taken as notice to all.

PUBLICATION OF NOTICE WHERE SERVICE IMPOSSIBLE.

If the owner of any such property is unknown, or service cannot, for any reason, be made as above directed, notice shall be published at least once, not less than thirty (30) days before the making of such connection by the Deptford Township Municipal Utilities Authority, in a newspaper circulating in the municipality. There may be inserted in the advertisement notice to the owner or owners of several different properties.

PROOF OF SERVICE

Proof of service or publication of such notices shall be filed within ten (10) days after such service, with the Tax Collector of the Township of Deptford, but failure to file the same shall not invalidate the proceedings if service has actually been made as herein provided.

COST: CERTIFICATION AND COLLECTION.

When any such water and/or sewer connection or toilet installation shall be made, a true and accurate account of the cost and expense shall be kept and apportioned to the property or properties thereby connected, and a true statement of such costs under oath shall be forthwith filed by the Deptford Township Municipal Utilities Authority Director, or the designated officer of the Authority in charge of such connection or installation with the Clerk of the Township of Deptford. The Township Council shall examine the same, and if properly made, shall confirm it and file such statements with the Tax Collector. The Tax Collector shall record the connection or installation charge in the same book in which said local and other assessments are recorded.

ASSESSMENTS; INTEREST AND PENALTIES; ASSESSMENT A LIEN

Such connection or installation charge shall bear interest and penalties from the same time, and at the same rate, as assessment for local improvements, and from which time of conformation shall be a first and paramount lien against the respective property or properties so connected with the Township of Deptford or Deptford Township Municipal Utilities Authority's utilities system, to the same extent as assessment for local improvement, to be collected and enforced in the same manner.

PAYMENT IN INSTALLMENTS

The Deptford Township Municipal Utilities Authority, may with the consent of the Deptford Township Council provide for the payment of any sewer or water connection or toilet installation charges in installations in the same manner as assessments for local improvements, to bear the same rate of interest, and be collected and enforced in the same

manner as are installments for assessments on local improvements.

RULES AND REGULATIONS

The Deptford Township Municipal Utilities Authority may promulgate such rules and regulations as may be necessary in furtherance of, and to affect the purpose and objectives set forth in this Ordinance. Such rules and regulations shall not be of effect unless notice of the proposed adoption is advertised at least five days (5) prior to the date set by the Authority for Public Hearing.

REPAYMENT TO DEPTFORD TOWNSHIP MUNICIPAL UTILITIES AUTHORITY

Upon collection by the Tax Collector of those water and sewer connection or toilet installation charges expanded by the Deptford Township Municipal Utilities Authority, as assessed in accordance with the provisions of this Ordinance, such sum(s) shall be reimbursed including accrued interest, by the Township of Deptford to the Deptford Township Municipal Utilities Authority.

RESERVATION OF AUTHORITY

Notwithstanding the express delegation to the Deptford Township Municipal Utilities Authority, to effect the provisions of this Ordinance, in furtherance of those powers, express and implied to effect such delegation of authority to the Deptford Township Municipal Utilities Authority, and the designated public officers herein, does not expressly waive any power to take those actions granted it in accordance with the provisions of N.J.S.A. 40:63-52 through 40:63-64, which are incorporated herein by reference.

ARTICLE II VIOLATIONS AND PENALTIES

Any person or persons, firm or corporation failing to obey the provisions of the Ordinance, or the orders of the public officer, Deptford Township or Deptford Township Municipal Utilities Authority issued pursuant to this Ordinance, shall be subject to a fine not to exceed five hundred dollars (\$500.00), or imprisonment for not more than ninety (90) days, or both, at the discretion of the court before whom said matter shall be heard. The penalties provided herein shall not be deemed to bar or exclude any other power of enforcement which the Township or Deptford and/or Deptford Township Municipal Utilities Authority by and through its public officers shall have in order to enforce compliance with the provisions of this Ordinance.

ARTICLE III REPEALER; AND SAVING CLAUSES

Sections 63-1 through 62-12 and Sections 77-1 through 77-7 of the Code of the Township of Deptford are hereby expressly repealed, upon the effective date of this Ordinance.

Sections 63-13 through Sections 63-17 of the Code of the Township of Deptford are hereby expressly saved from repeal.

Section 2 Schedule of Services

2.1 Schedule I - Water and Sewer Connection and Disconnection

2.1.1 Connection of Water and Sewer Services

A connection fee shall be imposed for any new or additional physical connection to a property or to the water or sewerage system, or for any addition, alteration or change in use to an existing connection that materially increases the level of service unit usage and imposes a greater demand on the water or sewerage system.

Any connection permit issued shall be valid for one year from date of issuance by the Authority. Connection permits for sewer or water services may be renewed. Upon renewal of permits, applicant shall pay the difference between the connection fee paid at the time of issuance or last renewal and the connection fee in effect at the time a renewal of the permit is sought.

A connection charge (see Section 20 Fee Schedule) shall be imposed for each water connection and each sewer connection per domestic consumer unit or equivalent domestic consumer units in accordance with the following schedule, except where otherwise noted:

<u>TYPE OF STRUCTURE</u>	<u>DOMESTIC CONSUMER UNITS</u>
Single family dwelling.....	1 unit
Private dwelling with rented rooms or boarding home	1 unit
each additional room available for rent.....	1 unit
Hotel or Motel (per 3 living units)	1 unit
Rental or condominium apartments (per living unit)	1 unit
Townhouse (per living unit).....	1 unit
Single family home with place of Business.....	1 unit
each place of business having separate water fixtures.....	1 unit

<u>TYPE OF STRUCTURE</u>	<u>EQUIVALENT DOMESTIC CONSUMER UNITS</u>
School (per each 30 pupils and faculty)	1 unit
Church (worship area only).....	1 unit
Each additional 100 seats or segment thereof.....	1unit
Hospitals (per 10 beds or segment thereof)	6 units
Public Building.....	2 units
Clubs, Societies, Service Organizations.....	1 unit
Clubs, Societies, Service Organizations with bar and/or dining facilities	3 units
Service Station (without repair or maintenance facilities).....	1 unit
With mini-mart (per 3,000 square feet of gross floor area or segment thereof.....	1 unit
Service Station (with repair or maintenance facilities).....	2 units
With mini-mart (per 3,000 square feet of gross floor area or segment thereof.....	1 unit

Commercial Garage (with water fixtures)	1 unit
Take-out Restaurant (without seating facilities)	2 units
Banquet or Catering Hall with seating facilities; 1-150 seating capacity	3 units
Each additional 50 seats or segment thereof	1 unit
Laundromat or Self-Service Laundry (per each washer).....	1 unit
Soda Fountain and/or Luncheonette (1-25 seating capacity)	1 unit
Each additional 20 seats or segment thereof	1 unit
Supermarket (per each toilet or urinal)	1 unit
(additional per each 10 employees)	1 unit
Retail & General Commercial Business (per first 2500 sq. ft. of gross floor area) ...	1 unit
(per each additional 5000 sq. ft. of gross floor area or segment thereof)	1 unit
Office Building (per each 3000 sq. ft. of gross floor area or segment thereof)	1 unit
Residential Health Care Facilities as licensed by the Department of Health and Boarding Homes with Class "C" licenses from the Department of Community Affairs, (per living unit).....	(.4) unit
(for purposes of this paragraph of the Rates, Rules and Regulations relating to retirement homes, etc., a living unit shall be defined as a unit with up to two (2) beds or bedrooms. In the event that a unit has more than two (2) bedrooms or more than two (2) beds, each two (2) beds or each two (2) bedrooms or portion thereof above shall equal one (1) living unit for the purposes of this Schedule).	
Warehouse (per each 5000 sq. ft. of gross floor area or segment thereof)	1 unit
Industrial or Manufacturing plant (without industrial waste) per each 3,000 sq. ft. of gross area, or per each 5 employees, whichever is greater	1 unit
Diner, Tavern, Restaurant (without separate banquet room on facilities) 1-50 seating capacity	3 units
each additional 15 seating capacity.....	1 unit
Diner, Tavern, Restaurant (with separate banquet room or facilities; banquet seating per each 50 seats)	1 unit
In the event that there is no category listed above which adequately defines the connection fees due from a proposed connector to the Authority's system, then and in that event the connection fee shall be calculated based upon the anticipated flow for the project as determined by the Authority and the Authority's Engineer with each unit of flow which is the equivalent of a domestic unit to be equal to one connection fee unit. One (1) DCU shall be equal to 300 GPD.	

Effective May, 21, 2019 Resolution 69-2019

NEW OR ADDITIONAL CONNECTION FEE MAY BE IMPOSED

- a) For any property receiving water and/or sewer service which property either makes a new physical connection or enlarges or modifies an existing connection which would affect the calculation of the connection charges under Schedule I of Section 2, shall be

charged an additional connection fee computed by calculating the amount of connection fee which should be paid based upon the property considering the new physical connection, or the enlargement or modification of an existing connection, less the connection fee calculated based upon the property as it existed prior to the change. Such fee shall be payable prior to the commencement of construction or the commencement of such change of use.

- b) For any property receiving water and/or sewer service which is connected to the water and/or sewer system for less than 20 years, and which property is subject to an addition, alteration, or change in use that materially increases the level of use and imposes a greater demand on the water and/or sewer system, but does not involve a new physical connection of the property to the water and/or sewer system, shall be charged an additional connection fee. The additional connection fee shall be calculated under Schedule I of Section 2 for the amount by which the increased use and demand on the water and/or sewer system exceeds the use and demand that existed prior to such addition, alteration, or change in use.

AFFORDABLE HOUSING CONNECTION FEE

- a) Any new connections to the water and/or sewer system for public housing authorities, non-profit organizations building affordable housing projects, and to any other affordable housing, including affordable housing units in inclusionary projects; shall receive a 50% reduction in the connection charges under Schedule I or Section 2.
- b) For properties or units previously connected to the water and/or sewer system that were demolished or refurbished to allow for new affordable housing units and for which a connection fee was previously paid, a credit against the connection fee to be assessed for connection to water and/or sewer system for public housing authorities, non-profit organizations building affordable projects, and to any other affordable housing, including affordable housing units in inclusionary projects shall be provided. The credit shall be the connection fee previously assessed and paid for connection to the water and/or sewer system.
- c) The connection fee assessable against a public housing authority, non-profit organization, or other affordable housing owner, for units previously connected to the water and/or sewer system that were demolished or refurbished to allow for new affordable housing units, including affordable housing units in inclusionary projects, shall be the lesser of the reduced rate provided for in subsection c) above, or the current non-reduced rate applicable to other types of housing developments minus the credit provided under subsection d) provided that said public housing authority, non-profit organization, or other affordable housing owner can establish the connection fee or tapping fee was previously assessed and paid for connection with

the water and/or sewer system. If the same cannot be established, the reduced rate provided for in subsection C. of this section shall be assessed.

2.1.2 Schedule Road Opening Permits

a) State Road Openings

The applicant or applicant's professional engineer shall prepare, on behalf of the Authority, a state road opening permit and associated plans for any application for a state road opening permit. The applicant shall submit the State Road Opening permit to the Authority for review and sign off along with a check to the Authority made payable to the NJDOT.

The applicant shall file a performance guarantee with a surety to be approved by the Authority. The applicant shall also deposit escrow money with the Authority in the amount of \$1,000.00. The Authority shall deduct any and all charges of the Authority's engineer, a copy of which charges shall be forwarded to the applicant. The Authority shall hold the remaining sum for a period of two years from the time the Department of Transportation deems the project complete. Any excess shall be refunded to the applicant at the appropriate time. In the event that any deficiency occurs, such deficiency must be paid by the applicant within thirty (30) days or any permits shall be withdrawn and any permission from the Authority for any work shall also be withdrawn.

b) County Road Openings

The applicant shall obtain the appropriate road opening permits from Gloucester County.

c) Township Road Openings

The applicant shall obtain the appropriate road opening permits from Deptford Township.

2.1.3 Disconnection and Reconnection of Water and Sewer Services

a) Disconnection of water or sewer services shall be inspected by Authority personnel. Any disconnected water or sewer service that was not inspected by Authority personnel shall be excavated for the purpose of inspection within ten (10) business days. Failure to comply will result in the termination of water service. DTMUA will continue to bill monthly until such inspection is made and a termination of service letter is issued by DTMUA.

b) Owner of the property wishes to demolish a property they must complete and sign the DTMUA disconnection form and submit a copy of the Township's Letter of Abandonment, prior to the Authority removing the property from billing.

c) Any disconnected property which has been disconnected from the water and/or sewer service of the Authority shall be liable for a connection fee upon reconnection to the

system in accordance to the following:

- (1) Disconnection for a period of twelve (12) months or less due to a disaster such as flood, fire or other catastrophic event making the unit uninhabitable or unusable for its intended purpose – Reconnection charge shall be the minimum monthly service charge for water and/or sewer from date of disconnection to the date of reconnection. The twelve (12) month period may be extended by the Executive Director provided progress continues to be made toward completion of the structure.
- (2) Disconnection for more than twelve (12) months, the prevailing connection fee must be paid prior to reconnection.

CREDITS TOWARDS CONNECTION FEES AT RECONNECTION

- d) A credit shall be provided toward a connection fee to be charged for a reconnection of a disconnected property that was previously connected to the water and/or sewer, provided that the property has been connected to the water and/or sewer system for at least 20 years; and the respective service charges have been paid for the property in at least one of the last five years. The credit shall be calculated as follows:
 - (1) If the reconnection does not require any new physical connection or does not increase the nature or size of the service or the number of domestic consumer units or equivalent domestic consumer units or does not expand the use of the water and/or sewer system, the credit shall be equal in amount to a new connection fee as calculated under Schedule I of Section 2.
 - (2) If the reconnection requires a new physical connection, increases the nature or size of the service or the number of domestic consumer units or equivalent domestic consumer units, or expands the use of the water and/or sewer system, the credit shall be equal in amount to any connection fee previously paid for the property, and an additional connection fee shall be charged for difference between the credit and the connection fee for the new service level as calculated under Schedule I of Section 2.
 - (3) Subject to Paragraph (2) above, if no connection fee was ever paid for the property, but all service charges due and owing on the property have been paid for at least 20 years, the credit shall be equal in amount to the new connection fee as calculated under Schedule I of Section 2.
- e) If no connection fee was ever paid for the disconnected property that was previously connected to the water and/or sewer for at least 20 years, there shall be charged, in

addition to any amount due and owing after the application of any credit due pursuant to the subsections above , a connection fee equal to the lesser of:

- (1) 20 percent of the service charges that would have been paid based upon the usage for the last full year that the property was connected to the water and/or sewer system for the period from the date of the disconnection to the date of the new connection; or
 - (2) a new connection fee as calculated under Schedule I of Section 2.
- f) No credit shall be allowed under this subsection for a disconnected property that has been disconnected from the water and/or sewerage systems for more than five years.

Schedule II – Sewer Service

The Authority may increase its sewer rates equal to any increase of the Gloucester County Utilities Authority (GCUA), such increase(s) to be implemented after any public hearing required by law. The sewer service charge per month shall be as stated in Section 20 Fee Schedule.

For those who qualify for the senior citizen deduction, the minimum rate for each month shall be reduced by one-half.

The Senior Citizen rate reductions shall continue in full force and effect and the Authority authorizes the use of the list of the Township of Deptford for those who qualify for the senior citizen tax reduction in order to qualify persons for the rate reduction. For each new person qualifying for the rate reduction, such reduction shall go into effect for the next billing period after the date on which the authority receives notice from the Township that the rate payer is qualified for the senior citizen real estate tax reduction.

To qualify, the person must be a resident of the Township and the owner, occupant and rate payer of the property subject to the deduction and the property must be connected to the utility of the Authority for which the deduction is sought.

Industrial wastes based on quantity and concentration of sewerage, other than that of domestic sewerage charges, shall be established on the basis of cost to the Authority of the particular treatment process and industry.

In the event the business or structure is not described in the Schedule, the Authority shall determine the minimum sewer service charge per annum. Multiple use of an individual structure or group of structures shall be classified by the Authority to include all uses. In the event a business or structure is described in the Schedule by general classification, but the particular nature of said business or structure would result in an inequitable minimum sewer service charge per annum if the Schedule were used, the Authority, in its discretion, may

determine that a higher or lower minimum sewer service charge per annum, as the case may be, shall be charged.

When, in the opinion of the Authority, a contract payment method for sewer service for industrial users is in the best interest of the Authority, annual service charges for the discharge of industrial wastes or wastes other than sanitary sewage, into the sewerage system of the Authority, and annual service charges with respect to types of property not included above in this Schedule, shall be established between the Authority and the persons contacting for such discharges and use of said system and the owners of such property, on the basis of the quantity of such discharge or use and the character of such sewage and the cost of treatment and disposal thereof. No sewage will be permitted which would be contrary to the agreement now in effect between Gloucester County Sewerage Authority and the Deptford Township Municipal Utilities Authority. The Authority has the right to require pre-treatment facilities, so that industrial wastes shall not differ from normal sanitary sewage.

Waste water discharged into the facilities of the Authority shall not:

1. Be of such a nature and in such a quantity as to impair the hydraulic capacity of such facilities, normal and reasonable wear and usage excepted;
2. Be of such a nature as to, by either chemical or mechanical action, impair the strength and durability of waste water conveyance lifting and treatment structures;
3. Be of such a nature as to cause explosive or flammable conditions in such facilities. The flash point shall be lower than 187°F., as determined by the Tagliabile (Tag.) close cup method;
4. Have toxic materials in such a quantity so as to cause or upset the biological activity of the treatment.
5. Have a pH lower than 6.0 or greater than 9.0;
6. Have a temperature higher than 110°F;
7. Have any obnoxious or toxic gases that will cause hazardous conditions to the operating personnel of such facilities;
8. Include any garbage or grease other than that received directly from residences, unless the Authority shall have given written consent to its inclusion;
9. Include any radioactive substance, unless the Authority shall have given written consent to its inclusion;
10. Include any industrial waste, unless the Authority shall have given written consent to its inclusion.

2.2.1 Schedule of Rates for Commercial and Industrial (Sanitary Sewerage Service):

1. Each commercial or industrial user of the sewer system shall pay a monthly sewer rental according to Schedule II.

2. In cases where dwellings and establishments using the sewer system have sources or water supply other than, or in combination with water supplied by the Authority, such dwellings and establishments shall provide a meter on the other sources of supply. The total amount of water consumed, as shown by the sum of all meter readings, shall be used as the basis for computation of the sewer rent pursuant to Schedule II.
3. In cases where industrial users using the sewer system use water supplied from any source, and the water so supplied is not entirely discharged into the sewer system, the amount of water consumed is to be used as a basis for the computation of the sewer rent pursuant to Schedule II shall be determined by any of the following methods:
 - a) Each commercial and industrial user, at their own expense, shall install a meter or measuring device approved by the Authority on the effluent not discharging into the sewer system and the readings from this meter or measuring device shall be deducted from the readings of all water meters and the remainder shall be used in computing the sewer rent.
 - b) If in the opinion of the Authority Engineer it is not practical to install a meter or measuring device to determine the quantity of water not discharged into the sewer system, the Authority Engineer will determine in such manner and by such method as he/she may prescribe the percentage of metered water discharged into the sewer system, and the quantity of water used to compute the sewer rent shall be that percentage so determined of the total quantity measured by the water meter or meters. Any dispute as to the estimate percentage or amount shall be promptly submitted for determination to the Authority after notice of the estimate to the industrial user and the decision of the Authority shall be final for the current year.

2.2.2 Additional Charge for Treatment of Industrial Wastes:

Whenever the Superintendent of Operations finds that any person has misrepresented, on an application for an Industrial Discharge Permit, the amount of wastewater to be discharged, or that any person has discharged wastewater in excess of the amount of wastewater permitted under an Industrial Discharge Permit, the Superintendent of Operations shall recalculate the connection fees due and owing by the user and shall present the user with a statement containing the recalculated connection fees. The user shall pay the recalculated connection fees within fifteen (15) days of receipt of the statement.

In the event that the recalculated connection fees are not paid in full within the time required, interest shall accrue on the recalculated connection fees at the rate of one and one-half percent (1/2%) per month, and the Superintendent of Operations shall terminate sewer service to the user until such time as the recalculated connection fees, including accrued interest, are paid in full.

Whenever the Superintendent of Operations finds that the characteristics of the wastewater

discharged by a user exceed the discharge parameters allowed under an Industrial Discharge Permit, the Superintendent of Operations shall impose a surcharge for the treatment of such wastes in accordance with the formula for such surcharge as is contained in the Authority's rate schedule. The sewer service charges shall be recalculated for the period of time during which the Superintendent of Operations reasonably believes that such discharges in excess of the parameters permitted by the Industrial Discharge Permit have continued, but in no event, less than one (1) complete billing period for the user. The recalculated sewer service charges shall be presented to the user, who shall pay such recalculated service charges within thirty (30) days of receipt. In the event that the user does not pay the recalculated sewer service charges within such period of time, then interest at the rate of one and one-half percent (1/2%) per month shall accrue on all such recalculated sewer service charges and the Superintendent of Operations shall terminate water and/or sewer service to the user until such time as the recalculated sewer service charges, plus all accrued interest, are paid in full.

2.2.2.1 Industrial and Commercial Waste Surcharge

Industrial/Commercial wastes discharged into the Authority's system shall be subject to an industrial waste surcharge (IWS). The industrial waste surcharge shall apply to any wastewater which exceeds 300 mg/L (300 ppm) for BOD and/or Suspended Solids (SS) or 100 mg/L (100 ppm) for Oil and Grease.

The surcharge for treatment of wastes referred to in the preceding paragraph shall be based on the formula located in Section 7.5.7C

The industrial/commercial customer shall be responsible for the costs of sampling and testing of the industrial wastewater. In cases where the suspended solids, in the opinion of the Authority do not represent the true characteristics of the solids loading, the Authority reserves the right to use total solids in lieu of suspended solids. In cases where the BOD, in the opinion of the Authority does not represent the true characteristics of the oxygen demand, the Authority reserves the right to use COD in lieu of BOD

2.3 *Schedule III – Water Services*

A monthly minimum base charge shall apply to all water meters. Refer to Section 20 Fee Schedule for amount and water consumption allowances.

All water service shall be metered. Meters shall be capable of being read from the outside of the premises and shall be of the type approved by the Authority.

Excess Rate:

In addition, excess usage over the monthly allowance will be billed at a fixed rate per 1,000 gallons per month. Refer to Section 20 Fee Schedule for current rates per 1,000 gallons. The water charges as set forth and amended annually. All water meters shall be furnished by the Authority upon payment of a service fee equivalent to the cost of the meter and yoke and shall be installed under the supervision of the Authority, and will remain the property of

and under the control of the Authority and will be accessible.

For those who qualify for the senior citizen deduction, the minimum rate for each month shall be reduced by one-half.

2.4 Schedule IV – Meter Size

<u>TYPE OF STRUCTURE</u>	<u>DOMESTIC METER UNIT</u>
Single family home	1 unit
Private dwelling with rented rooms or Boarding Home	1.5 units
Each additional room available for rent up to 3 rooms	1 unit
Every 3 rooms thereafter	1 unit
Hotel or Motel (per 3 living units)	1 unit
Apartments, condominiums and townhouses (per living unit) whether rental or owned	1 unit
Single family home with place of business	2 units
General Commercial Business up to 30,000 sq. ft. of gross area	3 units
for each additional 30,000 sq. ft. or segment thereof	2 units
General Industrial Business up to 15,000 sq. ft. for each additional 5,000 sq. ft. of gross area	3 units 2 units
Professional Offices (up to 3,000 sq. ft. of gross area) per each additional 5,000 sq. ft. of gross area	1.5 units 1 unit
Nursing Home (up to 20 inhabitants and staff) for each additional 20 inhabitants and staff thereof	2 units 1.5 units
<u>TYPE OF STRUCTURE</u>	<u>EQUIVALENT DOMESTIC METER UNIT</u>
School (per each 30 pupils and faculty)	1 unit
Church (per 50 members)	1.5 units
Public Building	2 units
Clubs, Societies, Service Organization	1.5 units
Service Stations (w/out car washing facilities)	1.5 units
Service Stations or Garage (with car washing facilities)	2 units
Diner, Tavern or Restaurant (1 to 50 seating capacity) Each additional 15 seating capacity or segment thereof	3 units 1.5 units
Laundromat or Self-Service Laundry (per washer if not more than 12 lbs. capacity)	1 unit
Per each washer over 12 lbs. for each additional 12 lbs. or segment thereof	1 unit
Soda Fountains and/or Luncheonettes (1 to 15 seating capacity) each additional 15 seating capacity or segment thereof	1.5 units 1.5 units

Supermarket (up to 5 employees)	1.5 units
for each additional 5 employees	1 unit

In the event a business or structure is not described in the schedule, the Authority shall determine the minimum equivalent domestic meter units for that structure.

Multiple use of an individual structure shall be classified on a square foot area basis with the meter size determined by a general classification in the rate schedule by the Authority.

The Authority has the right to total the meter units and designate the size of the meter required. Any meter installed that is smaller than what is required will be billed for the proper size.

2.5 Schedule V – Meter Sizes and Requirements

Total Gallons per Minute and Total Meter Units

<u>G.P.M.</u>	<u>UNITS</u>	<u>METER REQUIRED</u>	<u>ALTERNATE METER REQUIRED</u>
20	1	5/8" x 3/4"	
30	1.5	3/4"	
50	2	1"	2) 3/4"
51-100	3	1 1/2"	2) 1"
101-150	4	2"	2) 1 1/2"
151-250	5-8	2"	2) 1 1/2"
251-350	8-14	3"	2) 2"
351-550	14-22	4"	3) 2"
551-750	23-30	2/3"	
751-1150	30-46	3/3"	1) 6"
1151-1350	46-54	4) 3"	
1351-1700	54-68	3) 4"	
1701-1800	68-72	6) 3"	2) 6"
1801-1900	72-76	6) 3"	2) 6"
1901-2000	76-78	2) 6"	4) 4" or 4) 4"
2001-2300	78-90	1) 8"	4) 4"
2301-2500	90-98	1) 8"	5) 4"
2501-2750	98-108	5) 4"	
2751-3200	108-126	3) 6"	6) 4"
3201-3700	126-144	7) 4"	
3701-3800	144-150	4) 6"	8) 4"

2.6 Schedule VI – Fire Services

The charges for fire service are divided into two (2) classifications Public Fire and Private Fire Services. See Section 20 Fee Schedule for annual charges for each public and private fire hydrant.

There shall be no charge for water used for firefighting purposes from a public fire hydrant.

All fire service mains are to be equipped with detector check valves. See Section 20 Fee Schedule for monthly charge for fire service according to size of connection.

Bills will be rendered on a monthly basis. Any bill not paid within the 30 day grace period will be classified as delinquent and an interest charge per month will be assessed from the billing date. Upon, such delinquency, the water service shall be shut off and notice of same sent to the customer.

A turn-on charge will be made each time it is necessary to turn a fire service on at the curb.

All services and appurtenances are subject to inspection by Authority personnel.

No party whatsoever shall turn the water on or off at any curb stop, or disconnect to tamper with any water supply in, or about the customer's premises.

No water is to be used or diverted from a fire hydrant or fire service except as required to fight fire or test a fire system.

Submit a signed application and agreement form accompanied by the prevailing connection fee (see Section 20 Fee Schedule) per each fire service connection.

2.7 Schedule VII – Miscellaneous Services

A charge will be assessed to the customer's account as per Section 20 Fee Schedule for the following services:

Search Fee -This charge will be imposed at settlement regardless, if a full search is requested or not.

Return Check –This charge will be imposed for any checks returned by the bank for any reason. The fee or actual charge imposed by the Bank, whichever is greater will be assessed to the customer's account.

Meter Service - A flat fee shall be charged for the turning off and an additional charge will be charged for the turning on of a residential water service for meters of 3/4" or smaller due to a customer's request, delinquent bill, non-response to request for meter access, or tampering with the meter. All other turn off or on requests will be the actual costs incurred by the Authority, but shall not be less than the set fee. Commercial customers will be charged the set fee plus an additional fee based on the diameter of the water meter.

Test Service Charge – A set fee will be charged for testing of all water meters less than 3/4" in diameter and additional charges shall be imposed as established by the Executive Director of the Authority according to size for all water meters over 3/4" in diameter. The costs of testing the meter will be charged against the customer if the meter reading is within acceptable tolerances. In the event the meter is reading incorrectly, the cost of testing will be borne by the Authority.

Tampering Charge - A charge per day will be imposed for the tampering or removal of a water meter or for the occupancy of a property prior to the installation of a water meter.

Pool Filling Charges - Charged at the current excess rate

Final water readings – A charge per Section 20 Fee Schedule per occurrence

Meter Installation - A fee shall be imposed if a rescheduling of a meter installation appointment must be made due to noncompliance of Authority procedures.

Section 3 Domestic Service

3.1 Service to New Customers through Existing Connections

- 3.1.1 Mandatory connection to Deptford Township Municipal Utilities Authority water and sewer mains are required by the Deptford Township Ordinance Chapter XIV Section 14-1. “The owner of each property along the line of any sewage or water main now or here after constructed in the Township by the Township of Deptford or by the Deptford Township Municipal Utilities Authority shall connect each building on such property with sewer and/or water prior to the connection date with respect to said building”.

The MUA shall evaluate each new connection for an existing property or building on a case by case basis to determine if a water or sewer connection is required under the Township Ordinance. The MUA shall consider the following conditions and requirements when determining mandatory connection to a water or sewer main in the MUA system.

- a. Feasibility of water or sewer service to the area in question
 - b. Distance from an existing water or sewer main
 - c. Cost to install a new water or sewer main
 - d. Adverse health effects, condition of existing septic system and condition of potable water wells on the property in question.
- 3.1.2 No new service will be extended by the Authority until the applicant has paid all charges due by the applicant at any premises now or heretofore occupied by him.

As water and sewer charges are municipal liens, all charges will be submitted by the Authority prior to the date of settlement and verified in written form to the title company or whatever authorized agent is processing the transfer of property. The title company shall be obligated to clear all water and/or sewer charges outstanding on the property. In the event that charges are not paid at settlement, those charges shall remain on the account as a lien against the property.

- 3.1.3 The Authority shall charge a search fee for water and sewer on each inquiry. Search fees are due upon presentation. Failure on the part of the title company or the proper authorized agent to pay the search fees within 20 days of presentation will result in the discontinuance of Authority lien information.
- 3.1.4 Search fees will be charged for information in areas in which there is no existing water or sewer service.
- 3.1.5 No Authority approval will be given to the Building Code Official for insurance of a Certificate of Occupancy until the Authority has certified that the meter and water and sewer lateral systems have been installed in accordance with the Authority Rates, Rules and Regulations.

- 3.1.6 Under no circumstances shall any new fixture be installed in a building or dwelling at an elevation lower than the front curb elevation or the street centerline elevation, whichever is higher, unless special precautions are incorporated into the new fixture installation to prevent surcharging of the new fixture installation from the sanitary sewer main because of high flow or blockage. Owners of houses where the Authority has deemed it necessary that such precautions had to be installed, will be notified by certified mail of the requirement for the installation of that check valve system and they will be advised that they own the system and its maintenance is their responsibility and that the Authority cannot be held responsible for any damage as a result of its malfunctioning.
- 3.1.7 The initial billing date of a newly constructed home will be the date of the Certificate of occupancy or the date of settlement, whichever is first.

3.2 *Landlord - Tenant Responsibility*

All charges for sewer and water are a lien against the property and therefore the responsibility of the owner. If the landlord requests in a letter that the bills be sent to the tenant, the Authority, at its discretion, may oblige after informing the landlord that the final responsibility for any unpaid charges is the responsibility of the owner of the property.

3.3 *Discontinuation of Customer Service*

In the event that a sewer lateral service is to be permanently discontinued for the purpose of demolition, the Authority shall be notified in writing that the service billing shall be terminated. The sewer lateral shall be permanently sealed watertight in a manner subject to the approval of the Engineer or Superintendent.

3.4 *Tampering with the Meter*

Where the meter has been inspected and found to have been removed, damaged or tampered with, the customer will be notified by letter that a charge will be imposed to repair the meter as specified in the rate schedule. If the customer refuses entry to the premises, service will be discontinued and an additional fee will be charged to restore the service.

3.5 *Bankruptcy*

In the event a customer files for bankruptcy all water and sewer charges will remain with the property and will be the responsibility of the party assuming ownership of said property. All water and sewer charges are to be treated as "Municipal Charges" as utilized in N.J.S.A. 54:4-110 and 120 and 5-21 pertaining to property tax collection, and N.J.S.A. 40:14B-42, 40:68A-18, 40A:26A-12, 40A:27-14 and 40A:31-12 pertaining to the imposition of service charges by authorities which encompasses such charges. All water and sewer charges are to be paid in full before services are to be restored to the property in question. Any questions relating to N.J.S.A. 54:3-27 may refer to the Director of Division of Local Government Services, his/her Local Finance Notice Dated May 10, 1993 on Interpretation of Term "Municipal Charges" pursuant to N.J.S.A. 54:3-27.

Section 4 Public Fire Service

4.1 Hydrant Locations

Subdivision plans, as approved by the Authority, shall be submitted to the Fire Marshall for his/her approval of hydrant locations. The written and dated signature of the Fire Marshal or his/her duly authorized representative from the municipality, on each set of plans submitted by the Authority, and shall constitute authorization from the municipality.

4.2 Maintenance

All public fire hydrants will be maintained by the Authority.

4.3 Allowable Uses

Only persons authorized by the Authority shall take water from any public fire hydrant, except for fire purposes, or for the use of the Fire Department, in case of fire. No public fire hydrant shall be used for sprinkling streets, flushing sewers or gutters, or for any use other than fire purposes, except with the written approval and consent of the Authority.

4.4 Change of Location

Whenever the Board of Fire Commissioner and/or Governing Body desires a change in the location of any fire hydrant, the Authority, upon written notice to do so, will make such change at the expense of the municipality or Board of Fire Commissioners.

4.5 Inspection

Routine inspections of each hydrant shall be made semi-annually according to the time schedule set by the Executive Director. Upon written request from a duly authorized representative of the Board of Fire Commissioners, the Authority, when it determines that the request is reasonable, will authorized that such inspection be made by an authorized representative of the Authority, accompanied by an authorized representative of the Board of Fire Commissioners.

4.6 Notification

The Police Department Dispatcher shall notify the Authority when the Fire Companies will be using a hydrant.

4.7 Offsite Hydrant Installation

New hydrant installation costs within a tract are borne by the tract developer because it benefits the tract directly. This policy is consistent with the Authority's policy regarding onsite

improvements. However, occasionally, new hydrants are installed outside a developed tract and do not generally benefit the tract but rather benefit the broad fire protection capabilities of the Township. Therefore, costs for installation of these offsite hydrants shall be recovered by charging the Board of Fire Commissioners directly by means of including it in the annual fire hydrant rental fee, and only if the new hydrant installation is requested by the Board of Fire Commissioner.

Section 5 Private Fire Service

5.1 Automatic Devices and Hydrants

For automatic sprinklers or other automatic fire service devices located inside a building or buildings, a separate service line will be required, to be used exclusively for fire service. At the option of the customer, fire hydrants located outside of the buildings may be connected to the fire service line. Each such separate service line shall be subject to the charges shown in the rate schedule. The Authority reserves the right to refuse approval for an application for automatic fire service where, in the judgment of the Authority, such service is not practical.

5.2 Ownership and Location

All reduced pressure zone backflow prevention and fire sprinkler detector check valve devices shall be approved by the MUA. The customer, at his/her expense, shall purchase, install and maintain all backflow and check valve devices.

5.3 Private Un-metered Fire Service

When, in the judgment of the Authority, it is practical, private un-metered fire service lines may be permitted to be installed at the expense of the owner, and shall be subject to the charges shown in the rate schedule.

5.4 Bills Rendered and Due

Bills will be rendered monthly and are due and payable on presentation.

5.5 Private Hydrant Maintenance and Repairs

Private hydrant maintenance/repairs are the responsibility of the owner. Failure to maintain private hydrants will be brought to the attention of the Deptford Township Fire Marshall and be subject to any fines or penalties that office may impose.

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Section 6 Use of Water for Temporary Purposes & Theft of Services

6.1 Special Application – Hydrant Permit

A supply of water for building, hydro seeding, street sweeping or other special purposes, except on a lot or premises already supplied with a metered water connection, must be specially applied for and fees paid as specified hereinafter. All applications for water for building purposes must be signed by the owner or his/her duly authorized agent, and shall be interpreted to mean that the water is to be used from a builder's hydrant, temporarily adapted with a meter.

The applicant's contractor shall acquire a fire hydrant meter from the Authority at the charges described in the Authority's Fee Schedule. A fire hydrant potable meter shall be provided with a gate valve and brass swing type check valve. The contractor may adapt to the existing fittings provided with the meter in the manner required to suit the differing needs.

The meter must be returned in the condition it was received. Additional charges will apply if components of the fire hydrant meter are missing or damaged. In the event the Authority does not have a fire hydrant meter available, the contractor may purchase a fire hydrant meter at his expense from a supplier of his choice. The meter shall read in gallons and incorporate a gate valve and brass swing type check valve. Ball valves will not be acceptable due to water hammer to the system created from opening or closing the valve too quickly. Meters furnished by the contractor must be brought to the Authority's office for inspection for compliance and to record all information for reading. Upon completion, the water meter must be returned to the Authority's office for a final meter reading to close out the account. The same fee schedule and associated charges will apply for meters supplied by the contractor that apply to Authority supplied meters. Upon completion of the project, ownership of the meter purchased by the contractor will be retained by the contractor.

An application fee for each thirty (30) days together with a charge per 1,000 gallons of water consumed as recorded on the meter will be imposed.

The payment shall be used as a deposit for the meter, the application fee per thirty (30) days together with a charge per 1,000 gallons of water consumed as recorded on the meter.

A maximum amount set in Section 20 Fee Schedule will be returned to the applicant upon return of undamaged meter and fire hydrant adapter. The costs of repairing the meter and fire hydrant adapter will be deducted from the deposit. The application expires in thirty (30) days and must be renewed for each successive thirty (30) days.

6.2 Theft of Services

The purpose of this policy is to protect against the theft of water from the Township's distribution system. The increase in residential and commercial growth has resulted in the theft of water through various means by contractors, sub-contractors, lawn maintenance, power washing personnel, and others.

1. Upon complaint of possible water theft the Deptford Township MUA's Office Supervisor shall investigate and file a formal report with the Executive Director's Office. Any bypassing or other device used to illegally remove water from the township's system or not using a meter at all [i.e. using a jumper] will result in immediate termination of service and possible confiscation of the illegal device.
2. Based upon the report of the Deptford Township MUA Office Supervisor the Executive Director shall determine if damages have resulted based on the theft of water.
3. Charges for tampering with a meter or theft of water will be assessed per individuals or businesses and not per location as follows:
 - * First Offense \$250.00
 - * Second Offense \$500.00
 - * Third and Subsequent Offense \$1,000.00
4. In addition to the fines for tampering, the offending company/individual will be billed for all water estimated by the Deptford Township MUA to have been potentially withdrawn from the Deptford Township MUA's water system. Both water and/or sewer usage will be calculated in determining the estimated.
5. The Deptford Township MUA reserves the right to pursue criminal charges where warranted in addition to fines and actual cost associated with the theft.

Adopted: April 21, 2020 Resolution No.46 - 2020

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Section 7 Industrial and Commercial Services

7.1 General Provisions

This regulation promulgates uniform requirements for all discharges into the wastewater collection and treatment system of the Authority and enables the Authority to comply with all applicable Federal and State statutes, regulations and permits pertaining to wastewater treatment and discharge, as well as industrial pretreatment.

The objectives of this regulation are:

- A. To prevent the introduction of pollutants into the POTW which will interfere with the operation of the system or contaminate the resulting sludge;
- B. To prevent the introduction of pollutants into the POTW which will pass through the system, inadequately treated, into receiving waters or the atmosphere or otherwise be incompatible with the system;
- C. To improve the opportunity to recycle and reclaim waste waters and sludge from the system; and
- D. To prevent violations of Federal and State statutes, regulations and permits relating to sewage treatment and discharge.

This regulation authorizes monitoring and enforcement activities, requires industrial user reporting, and provides for the regulation of discharges to the POTW through enforcement of general requirements for all dischargers.

Except as otherwise provided herein, the Superintendent of Operations shall administer, implement and enforce the provisions of this Regulation

7.1.1 Definitions

Unless the context specifically indicates otherwise, the following terms and phrases, as used in this Regulation, shall have the following meanings:

Act or "the Act" The Federal Water Pollution Control Act, also known as the Clean Water Act, as amended, 33 U.S.C. 1251, *et seq.*

Approved Test Procedure An analysis that has been performed in accordance with the analytical test procedures approved under 40 CFR Part 136. Analysis for those pollutants not covered therein shall be performed in accordance with procedures approved by the NJDEP. A laboratory certified by NJDEP to do the analysis shall perform all approved test procedures.

Authority the Deptford Township Municipal Utilities Authority

Authorized Representative of Industrial User An authorized representative of an industrial user who is: (1) a principal executive officer of at least the level of vice president, if the industrial user is a corporation; (2) a general partner or proprietor if the industrial user is a

partnership or proprietorship, respectively; or (3) a duly authorized representative of the individual designated above if such representative is responsible for the overall operation of the regulated facility, such as a position of plant manager, superintendent, or person of equivalent responsibility.

Biochemical Oxygen Demand (BOD). The quantity of oxygen utilized in the biochemical oxidation of organic matter for five (5) days at 20°c expressed in terms of weight and concentration (milligrams per liter (mg/l)) in accordance with an approved test procedure. Also referred to as BOD5

Chemical Oxygen Demand (COD) a measure of the oxygen-consuming capacity of inorganic and organic matter present in water or wastewater expressed as the amount of oxygen consumed by a chemical oxidant in accordance with an approved test procedure.

Compatible Pollutant Biochemical oxygen demand, suspended solids, pH and fecal coliform bacteria, and such additional pollutants as are now or may be in the future specified and controlled in the Authority's NJPDES permit, where the POTW is designed to treat such pollutants and, in fact, does treat such pollutants to the degree required by the NJPDES permit.

Composite Sample a sample consisting of several effluent portions collected during a specified time period and combined to make a representative sample.

Cooling Water any water used for the purpose of carrying away excess heat, and which may contain biocides used to control biological growth or other additives to protect the system against corrosion, scaling or the like.

Daily Average A flow proportioned average over a single day period of operation of a facility.

Discharge The releasing, spilling, leaking, pumping, pouring, emitting, emptying, or dumping of a pollutant into the waters of the State or onto the land or into wells from which the pollutant might flow or drain into said waters, and shall include the releasing, spilling, leaking, pumping, pouring, emitting, emptying or dumping of any pollutant into the Authority's treatment works.

Domestic Wastewater The liquid waste or liquid borne waste (1) resulting from the noncommercial preparation, cooking and handling of food, (2) consisting of human excrement and similar wastes from sanitary conveniences, and (3) consisting only of compatible pollutants, which does not exceed any of the following levels:

BOD	300 mg/l
Total Suspended Solids	300 mg/l
Ammonia Nitrogen	25 mg/l as N
TKN	25 mg/l as N
TDS	350 mg/l
Chlorine Demand	15 mg/l

COD	500 mg/l
Fats, Oils, Grease	100 mg/l

Emergency an immediate situation, which, in the opinion of the Superintendent of Operations may cause interference or pass through, damage to the POTW or presents a health hazard to personnel, the general public, or the environment.

EPA The United States Environmental Protection Agency

Federal Categorical Pretreatment Standards Pretreatment standards as modified in 40 CFR Chapter I, Subchapter N specifying quantities or concentrations of pollutants or pollutant properties which may be discharged or introduced to a POTW by existing or new Industrial Users in specific industrial subcategories.

Garbage Solid wastes from the domestic and commercial preparation, cooking, dispensing, handling, storage or sale of food

Grab Sample. A sample that is taken from a waste stream on a one-time basis with a volume of at least 100 milliliters collected over a period not exceeding fifteen (15) minutes.

Holding Tank Waste Any waste from holding tanks, including but not limited to vessels, chemical toilets, campers, trailers, septic tanks, and vacuum-pump tank trucks.

Incompatible Pollutant Any pollutant which is not a compatible pollutant@ as defined in this section.

Industrial/Commercial User For the purpose of permitting dischargers of non-domestic wastewater, an industrial user who is not a significant industrial user.

Industrial Facility The facility of an industrial user

Industrial User Any person who discharges non-domestic wastewater into the treatment works of the Authority.

Interference The (1) inhibiting or disrupting the operation of a POTW or its treatment process so as to contribute to, cause or increase a violation of any condition of a State or Federal permit under which the POTW operates; or (2) discharging process wastewater which, in combination with existing domestic wastewater flow are of such volume and/or strength as to exceed the POTW design capacity or NJPDES permit; or (3) preventing the use or management of sludge produced by the POTW in accordance with Section 405 of the Act and permits, regulations, criteria or guidelines developed pursuant to the Federal Resource Conservation and Recovery Act of 1976 (42 U.S.C. 3251 et seq.), the Federal Marine Protection, Research and Sanctuaries Act of 1972 (42 U.S.C. 1401 et seq.), the Federal Clean Air Act (42 U.S.C. 7401 et seq.), the Federal Toxic Substances Control Act (15 U.S.C. 2601 et seq.), Sections 2, 4, and 6 of the State Act, the New Jersey Sludge Management Regulations, and the New Jersey Statewide Sludge Management Plan.

New Jersey Pollutant Discharge Elimination System (NJPDES) The New Jersey system for issuing, modifying, suspending, revoking, reissuing, terminating, monitoring and enforcing discharge permits pursuant to the State Act. The term also includes discharge permits

issued pursuant to Section 402 of the Act (National Pollutant Discharge Elimination System).

NJDEP the New Jersey Department of Environmental Protection

Non-domestic Wastewater, Wastewater (a.) other than domestic wastewater, as defined herein, or (b.) wastewater from any facility that is used for commercial or industrial purposes. The Superintendent of Operations may exempt the wastewater of certain facilities included in part (b) above, either individually, or by category, from the definition of non-domestic wastewater, provided, however, that the wastewater that is discharged from such facility is not classified as non-domestic wastewater pursuant to part (a) above.

Pass Through. The discharge through a POTW or treatment process in quantities or concentrations that are incompatible with the treatment process and which will be discharged improperly treated, into the receiving water or atmosphere.

Person Any individual, firm, company, partnership, corporation, association, group or society, including the United States of America, the State of New Jersey, and agencies, districts, commissions and political subdivisions created by or pursuant to State law, and Federal agencies, departments or instrumentalities thereof.

pH the logarithm (base 10) of the reciprocal of the concentration of hydrogen ions in moles per liter of solution Solutions with a pH greater than 7 are said to be basic; solutions with a pH less than 7 are said to be acidic; pH equal to 7 is considered neutral. Analysis shall be performed in accordance with an approved test procedure.

Pollutant Any dredged spoil, solid waste, holding tank waste, incinerator residue, sewage, garbage, refuse, oil, grease, sewage sludge, septage, munitions, chemical wastes, biological materials, radioactive substance, thermal waste, wrecked or discarded equipment, reek, sand, cellar dirt, and industrial, municipal or agricultural waste or other residue directly or indirectly discharged into the waters of the State.

Pretreatment The reduction of the amount of pollutants, the elimination of pollutants, or the alteration of the nature of pollutant properties in wastewater prior to or in lieu of discharging or otherwise introducing such pollutants into a POTW. The reduction or alteration may be obtained by physical, chemical or biological processes, process changes or by other means, except by dilution, as prohibited by 40 CFR 403.6. Appropriate pretreatment technology includes control equipment, such as equalization tanks or facilities, for protection against surges or slug loadings that might interfere with or otherwise be incompatible with the POTW.

Pretreatment Standards All applicable Federal or State rules and regulations implementing Section 307 of the Act or N.J.S.A. 58:11-49, as well as any non-conflicting State or local standards. In cases of conflicting standards or regulations, the more stringent thereof shall apply.

Process Wastewater Any water which, during manufacturing or processing, comes into direct contact with or results from the production or use of any raw material, intermediate product, finished product, byproduct or waste product

Publicly Owned Treatment Works (POTW) a treatment works as defined by Section 212 of the Act, which is owned by the Authority. For the purposes of this Regulation, POTW shall also include any sewers that convey wastewaters to the POTW from any person.

Significant Industrial User Any industrial user who discharges, into the Authority treatment works, process wastewater where:

1. The volume exceeds 25,000 gallons per day; or
2. The discharge contains amounts determined to be significant by the Superintendent of Operations, of any of the pollutants listed in Table I and/or in Appendix B, Tables II - VI of the State NJPDES Regulations, N.J.A.C. 7:14A-1 et seq.; or
3. The industrial user is subject to Federal Categorical Pretreatment Standards; or
4. The discharge is found by the Authority, NJDEP or USEPA to have significant impact, either singly or in combination with other waste waters, on the collection system, wastewater treatment system, the sludge produced by the treatment system, the treatment system's effluent quality or air emissions from the treatment system.

State The State of New Jersey.

State Act the New Jersey Water Pollution Control Act@, N.J.S.A. 58:10A-1 et seq.

Standard Industrial Classification (SIC) A classification pursuant to the Standard Industrial Classification Manual, 1972 (as revised) issued by the Executive Office of the President, Office of Management and Budget.

Storm Water any flow occurring during or immediately following any form of natural precipitation and resulting there from.

Superintendent of Operations the person appointed as the Superintendent of Operations of the Authority, including his/her or her designee, or in the absence of a Superintendent of Operations, such other person as may be designated by the Authority, or in the absence of such designation, the Authority itself.

Total Suspended Solids the Total Non-filterable Residue as defined and analyzed in accordance with an approved test procedure.

Total Toxic Organic Substances (TTO) a quantifiable value equal to or greater than 0.01 mg/l for the toxic organic substances listed on Table 2.

Toxic Pollutant Those pollutants, or combinations of pollutants, including disease causing agents, which after discharge and upon exposure, ingestion, inhalation or assimilation into any organism, either directly or indirectly by ingestion through food chains, may cause death, disease, behavioral abnormalities, cancer, genetic mutations, physiological malfunctions, including malfunctions in reproduction, or physical deformation, in such organisms or their offspring. Toxic pollutants shall include, but not be limited to, those pollutants designated under Section 307 of the Federal Act or Section 4 of the State Act.

Treatment Works. Any device or system, whether public or private, used in the conveyance, storage, treatment, recycling, or reclamation of municipal or industrial waste of a liquid nature, including intercepting sewers, outfall sewers, sewage collection systems, cooling towers and ponds, pumping, power and other equipment and their appurtenances; extensions, improvements, remodeling, additions, and alterations thereof; elements essential to provide a reliable recycled supply such a standby treatment units and clear well facilities; any other works including sites for the treatment process or for ultimate disposal of residues resulting from such treatment. Additionally, a treatment works@ means any other method or system for preventing, abating, reducing, storing, treating, separating, or disposing of pollutants, including storm water runoff, or industrial waste in combined or separate storm water and sanitary sewer systems.

Treatment Works Plant That portion of the treatment works designed to provide treatment to wastewater.

User any person who discharges wastewater into the treatment works of the Authority.

Wastewater The liquid and water carried wastes from dwellings, commercial buildings, industrial facilities, and institutions, together with any groundwater, surface water, and storm water that may be present, whether treated or untreated, which is discharged into or permitted to enter the Authority treatment works.

Terms not otherwise defined herein shall be as adopted in the latest edition of Standard Methods for the Examination of Water and Wastewater, published by the American Public Health Association, the American Water Works Association and the Water Environment Federation; the A Federal Guidelines for State and Local Pretreatment Programs@, EPA 430/9-76-017a, Volume 1, 1977, or the latest revision thereof; the Clean Water Act, 33 U.S.C. 1251 et seq.; the New Jersey A Water Pollution Control Act@, N.J.S.A. 58:10A et seq.; or A Pretreatment Standards for Sewerage, etc. @, N.J.S.A. 58:11-49 et seq.

7.1.2 Abbreviations

The following abbreviations shall have the designated meanings:

- BOD - Biochemical oxygen demand.
- CFR - Code of Federal Regulations.
- COD - Chemical oxygen demand.
- EPA - Environmental Protection Agency (United States).
- FOG – Fats, Oils, Greases.
- l - liter
- MDL - Minimum detectable limit.
- mg - milligrams.

- mg/l - Milligrams per liter (i.e., parts per million).
- N.J.A.C. - New Jersey Administrative Code.
- N.J.S.A. - New Jersey Statutes Annotated.
- NJDEP - New Jersey Department of Environmental Protection.
- NJPDES - New Jersey Pollutant Discharge Elimination System.
- NPDES - New Jersey Pollutant Discharge Elimination System.
- POTW - Publicly Owned Treatment Works.
- SIC - Standard industrial classification.
- SIU - Significant industrial user.
- TKN - Total Kjeldahl Nitrogen.
- TSS - Total suspended solids.
- TTO - Total toxic organic substances.
- USC - United States Code.
- USEPA - United States Environmental Protection Agency.

7.2 Prohibitions and Limitations on Wastewater Discharges

7.2.1 Prohibitions on Wastewater Discharges

No person shall discharge, deposit, cause or allow to be discharged or deposited into the Authority treatment works any wastewater which causes pass through or interference, or in any way contributes to a violation of any of the parameters in the Authority's NJPDES permit, or which contains any of the following:

- A. Fats, Oil, and Grease - (a) oil and grease from industrial/commercial facilities, in concentrations or amounts violating pretreatment standards; this includes petroleum based hydrocarbons as determined by silica gel absorption; (b) wastewater from commercial and/or industrial facilities containing floatable fats, wax, grease, or oil; (c) total fats, wax, grease or oil concentrations of more than 100 mg/l, whether emulsified or not, or containing substances which may solidify or become viscous at temperatures between 32° and 150°F (0° and 75°C) at the point of discharge into the treatment works. Any industrial or commercial facility that generates fats, oil and/or grease shall be required to install a grease trap in accordance with Figure 5 of Appendix A;
- B. Explosive and/or Flammable Mixtures - liquids, solids, or gases which by reason of their nature or quantity are, or may be, sufficient, either alone or by interaction with other substances, to cause fire or explosion, to result in a potentially explosive condition in any part of the collection or treatment system (a potentially explosive

condition is defined as any atmosphere in which combustible gases or vapors are at a concentration of ten percent (10%) or more of the Lower Explosive Limit (LEL)), or be injurious in any other way to the treatment works or to the operation of the works; such materials include, but are not limited to: gasoline, kerosene, naphtha, benzene, toluene, xylene, ethers, alcohols, ketones, aldehydes, peroxides, chlorates, perchlorates, bromates, carbides, hydrides and sulfides;

- C. Noxious Materials - pollutants that, either singly or by interaction with other wastes, are malodorous, are capable of creating a public nuisance or hazard to life or health, or are present in sufficient concentrations to prevent entry into the treatment works for its maintenance and repair;
- D. Improperly Shredded Garbage - garbage that has not been ground or comminuted to such a degree that all particles will be floating or carried freely in suspension under flow conditions normally prevailing in the treatment works, with no particle greater than one-half (2) inch in any dimension. The discharge of any improperly shredded garbage is prohibited; this prohibition does not apply to the use of garbage disposal units in private dwellings whose only discharge is domestic wastewater;
- E. Radioactive Wastes - prohibited except in conformance with N.J.A.C. 7:28-11.2 (Disposal of Radioactive Materials - Disposal by release into sanitary sewerage systems);
- F. Solid or Viscous Wastes - solid or viscous wastes which will or may cause obstruction to the flow in a sewer, or otherwise interfere with the proper operation of the treatment works. Prohibited materials include, but are not limited to: motor oil, petroleum grease, improperly shredded garbage, animal guts or tissues, diseased human organs or tissue fluids, paunch manure, bones, hair, hides or fleshing, entrails, whole blood, feathers, ashes, cinders, sand, spent lime, stone or marble dust, metal, glass, straw, shavings, grass clippings, rags, spent grains, spent hops, waste paper, wood, plastic, tar, asphalt residues, residues from refining or processing of fuel or lubricating oil, and similar substances. Other specific materials may be prohibited at the discretion of the Superintendent of Operations.
- G. Excessive Discharge - wastewater at a flow rate or containing a concentration or quantity of pollutants that exceeds, for any time period longer than fifteen (15) minutes, more than five (5) times the average daily flow rate or concentration or quantity of pollutants of the industrial user during normal operation, or containing such concentrations or quantities of pollutant that, in the judgment of the Superintendent of Operations, may cause a treatment process upset, interference or loss of treatment efficiency;
- H. Toxic Discharge - waters or wastes containing objectionable or toxic pollutants in sufficient quantity, either singly or by interaction with other pollutants, to result in pass through, to cause interference with the treatment works plant, to constitute a hazard to humans or animals, to create a toxic effect in the receiving waters of the

POTW< or to exceed standards promulgated by the EPA pursuant to Section 307(a)(b) or (n) of the Act, or the NJDEP pursuant to Section 4 of the State Act, or which exceed the maximum permissible concentrations specified in Table I, whichever is more stringent;

- I. Storm water - collected precipitation including surface and groundwater from sump pumps, cellar drains, drain spouts, roof leaders, storm gutters, and other such sources into the treatment works from any source.
- J. Discolored Materials - wastes with color that would cause or contribute to causing the treatment works to exceed water quality color criteria;
- K. Substances Interfering with Sludge Management - any substance which may cause the POTW's sludge to be unsuitable for reclamation and reuse or to interfere with the reclamation process where the POTW is pursuing a reuse and reclamation program. In no case shall a substance discharged to the POTW cause the POTW to be in noncompliance with sludge use or management criteria, guidelines or regulations developed under Section 405 of the Act, any criteria, guidelines, or regulations affecting sludge use or management developed pursuant to the Solid Waste Disposal Act, the Clean Air Act, the Toxic Substances Control Act, or, New Jersey Sludge Management Regulations, or the New Jersey Statewide Sludge Management Plan.
- L. Corrosive Wastes - any waste that will cause corrosion or deterioration of the treatment works. All wastes discharged to the treatment works must not have a pH value lower than 6.0 or greater than 9.0 standard units. Prohibited materials include, but are not limited to concentrated acids, alkalizes, sulfides, chloride and fluoride compounds, and substances which will react with water to form acidic or alkaline products which have a pH value that does not fall within the range stated herein;
- M. Heat - heat in the amounts which will inhibit biological activity in the treatment works, resulting in interference or causing damage, but in no case heat in such quantities that the temperature exceeds 65°C (150°F) at the sewer connection and 40°C (104°F) at the treatment works plant.
- N. Cooling Water - as defined in Section 1.2.
- O. Holding Tank Wastes - as defined in Section 1.2.
- P. Any wastewater which causes a hazard to human life or the environment, which creates a public nuisance or which may cause, or contribute to, a violation by the Authority of its NJPDES permit, the Act or State Act.

7.2.2 Limitations on Wastewater Discharges

Table I presents the maximum concentrations of certain pollutants allowable in wastewater discharges to the treatment works by any discharger. Dilution of any wastewater discharge for the purpose of satisfying these requirements is a violation of this Regulation. The

Authority reserves the right to establish more stringent limitations or requirements on discharges to the treatment works if deemed necessary to comply with objectives presented in Section 1.1 of this Regulation.

7.2.3 Federal Categorical Pretreatment Standards

Upon the effective date of the Federal Categorical Pretreatment Standard for a particular industrial subcategory, the Federal Standard, if more stringent than limitations imposed under this Regulation for sources in that subcategory shall immediately supersede the limitations imposed under this Regulation. Affected industrial/commercial users shall comply with such standards within the stated compliance deadline. NJDEP shall attempt to notify affected industrial/commercial users of the applicable reporting requirements under 40 CFR 403.12, but failure to notify does not relieve such industries of the obligation to comply with such reporting requirements.

7.2.4 Federal and State Requirements

Federal and State requirements and limitations on discharges shall apply in any case where they are more stringent than limitations contained in this Regulation.

7.2.5 Discharge Dilution Prohibited

No user shall ever dilute a discharge as a partial or complete substitute for adequate treatment or to achieve compliance with Federal Categorical Pretreatment Standards, State limitations or any other pollutant specific limitation contained in this Regulation or with any Industrial Discharge Permit issued hereunder.

TABLE 1
MAXIMUM PERMISSIBLE CONCENTRATION

Pollutant	Limit	Type of Sample
Ammonia Nitrogen as N	25 mg/l	Composite
Arsenic	0.1 mg/l	Composite
BOD5	300 mg/l	Composite
Cadmium	0.01 mg/l	Composite
Chlorine Demand	15 mg/l	Grab
Chromium (Total)	1.0 mg/l	Composite
Chromium (Hexavalent)	0.1 mg/l	Composite
COD	500 mg/l	Composite
Color	100 APUX	Grab
Copper	1.0 mg/l	Composite
Cyanide	0.2 mg/l	Composite
Hydrogen Sulfide	0.5 mg/l	Grab
Identifiable Chlorinated Organics	0.5 mg/l	Grab
Iron	0.1 mg/l	Composite
Lead	0.1 mg/l	Composite
Manganese	1.0 mg/l	Composite
Mercury	0.01 mg/l	Composite
Nickel	1.0 mg/l	Composite
Oil and Grease	100 mg/l	Grab
pH	6.0 - 9.0 SU	Grab
Phenols	0.5 mg/l	Grab
Phosphates as TPO4	10 mg/l	Composite
Silver	0.1 mg/l	Composite
Surfactants	0.5 mg/l	Grab
Temperature	65°C (150°F)	Grab
Tin	3.0 mg/l	Composite
TDS	500 mg/l	Composite
TKN as N	25 mg/l	Composite
Total Petroleum Hydrocarbons	0.1 mg/l	Grab
Total Solids	1,000 mg/l	Composite
TSS	300 mg/l	Composite
TTO (as defined in Table 2)	0.01 mg/l	Grab
Vanadium	3.0 mg/l	Composite
Zinc	4.0 mg/l	Composite

TABLE 2**TOTAL TOXIC ORGANIC SUBSTANCES**

Acenaphthene	Acenaphthylene
Acrolein	Acrylonitrile
Benzene	Chlorobenzene
1, 2, 4-trichlorobenzene	Hexachlorobenzene
1, 2-dichloroethane	Hexachloroethane
1, 1-dichloroethane	1, 1, 2-trichloroethane
Chloroethane	1, 1, 2, 2-tetrachloroethane
Bis (2-chloroethyl) ether	2-chloroethyl vinyl ether (mixed 2, 4, 6-trichlorophenol
Patachlorometa cresol	Flourene
Phenanthrene	Pyrene
Tetrachloroethylene	Toluene
Trichloroethylene	Vinyl chloride (chloroethylene)
Aldrin	Deldrin
4, 4-DDT	4, 4-DDE (p, p-DDX)
Beta-endousulfan	Endosulfan sulfate
Endrin	Endrin oldehyde
Heptachlor	Heptachlor expoxide
Toxaphene	Chloroform (trichloromethane)
2-chlorophenol	1, 2-dichlorabenzene
1, 3-dichlorobenzene	1, 4-dichlorobenzene
3, 3-dichlorobenzidine	1, 1-dichloroethylene
1, 2-trans-dichloroethylene	2, 4-dichlorophenol
1, 2-dichloropropane	1, 3-dichloropropane
2, 4-dimethyphenol	2, 4-dinitrotoluene
2, 6-dinitrotoluene	1, 2-diphenylhydrazine
Ethylbenzene	Flouranthene
4-Chlorophenyl phenyl ether	4-Bromophenyl phenyl ether
Bis (2-chloroisopropyl) ether	Bis (2-chlorethoxy) methane
Methylene Chloride (dichloromethane)	Methyl Chloride (dichloromethane)
Methyl Bromide (bromomethane)	Bromoform (tribromomethane)

TABLE 2 (CONTINUED)

TOTAL TOXIC ORGANIC SUBSTANCES

Chlorodibromomethane	
Isophorone	
Nitrobenzene	
4-nitrophenol	
4, 6-dinitro-o-cresol	
N-nitrosodiphenylamine	
Pentachlorophenol	
Bis (2-ethyhexyl) phthalate	
Di-n-butyl phthalate	
Diethyl phthalate	
1, 2-benzanthracene	
Benzo (a) pyrene	
Chrysene	
Carbon, Tetrachloride (tetrachloromethane)	
1, 12-Benaoperylene (Benzo (ghi) perlene)	
1,2,5,6 Dibenzanthracene (Dibenzo (a, h) anthracene)	
Indeno (1, 2, 3-cd) pyrene (2, 3-o-phenlene pyrene)	
Chlordane (technical mixture and metabolites)	
3, 4-Benzoflouranthene (benzo (k) flouranthene)	
11, 12-Benzoflouranthene (benzo (k) flouranthene)	
BHC-hexachlorocyclohexame:	Alpha-BHC, Beta-BHC, Gamma-BHC, Delta-BHC
PCB-polychlorinated biphenyls:	PCB-1242 Arochlor 1242 PCB-1254 Arochlor 1254 PCB-1221 Arochlor 1221 PCB-1232 Arochlor 1232 PCB-1248 Arochlor 1248 PCB-1260 Arochlor 1260 PCB-1216 Arochlor 1216

TABLE 2 (CONTINUED)
TOTAL TOXIC ORGANIC SUBSTANCES

Hexachlorocyclopentadrene
Naphthalene
2-nitrophenol
2, 4-dinitrophenol
N-nitrosodimethylamine
N-nitrosodi-n-propylamine
Phenol
Butyl benzyl phthalate
Di-n-octyl phthalate
Dimethyl phthalate
Benzo (a) anthracene
3, 4-benzopytrene
Anthracene

7.3 Control of Prohibited Wastes

7.3.1 Regulatory Actions

If wastewater containing any prohibited substance, exceeding prescribed limits, or violating restrictions imposed by Section 2 of this Regulation is proposed to be discharged into the treatment works of the Authority, the Superintendent of Operations may take any of the following actions necessary to protect the treatment works:

- A. Prohibit the discharge of such wastewater;
- B. Require the user to demonstrate that in-house modifications will reduce or eliminate the discharge of such substances so as to be in conformance with this Regulation;
- C. Require pretreatment; chemically, mechanically or both including storage facilities, or flow equalization necessary to ensure compliance with this Regulation;
- D. Take such other remedial action, including but not limited to those enumerated in the Act, State Act or other legislation or regulation, as may be deemed to be desirable or necessary to achieve the purpose of this Regulation.

7.3.2 Accidental Discharges

- e. Each industrial/commercial user shall provide, to the satisfaction of the Superintendent of Operations, protection from accidental discharges of prohibited materials, pollutants in excess of the concentrations permitted or other

substances regulated by this Regulation. Facilities to prevent accidental discharges shall be provided and maintained at the industrial/commercial user's own expense. Upon request, detailed plans showing facilities and operating procedures to provide this protection shall be submitted to the Superintendent of Operations for review and approval prior to construction of the facility. Review of such plans and operating procedures shall not relieve the industrial/commercial user of the responsibility of modifying its facility as necessary to meet the requirements of this Regulation.

- f. The industrial/commercial user shall control the amount of its discharges to the extent necessary to maintain compliance with this Regulation in the event of reduction, loss, or failure of its treatment facility until such time as its facility is restored or an alternative method of treatment is provided.
- g. In the case of an accidental discharge of prohibited materials, pollutants in excess of the concentrations permitted or other substances regulated by this Regulation, or, if for any reason an industrial/commercial user does not comply, or will be unable to comply, with any prohibition or limitation in this Regulation, the industrial/commercial user responsible for such discharge shall, within two (2) hours of such noncompliance, telephone and notify the Authority of the incident. The notification shall include the location of the discharge, the type of waste, and the concentration and volume of the discharge. Such industrial/commercial user shall also take immediate action to sample, contain and minimize the accidental discharge to the POTW so as to prevent interference with, or damage to, the treatment process.
- h. Within three (3) working days following an accidental discharge, the industrial/commercial user shall submit to the Superintendent of Operations a detailed written report describing the date, time and cause of the discharge, the quantity and characteristics of the discharge, corrective action taken at the time of the discharge, and the measures to be taken at the time of the discharge, and the measures to be taken by the industrial/commercial user to prevent similar future occurrences. Such notification shall not relieve the industrial/commercial user of any expense, loss, damage, or other liability which may be incurred as a result of damage to the treatment works, or any other damage to person, property or the environment; nor shall such notification relieve the industrial/commercial user of fines, civil penalties, or other liability which may be imposed by this regulation or other applicable law.
- i. In order to assist in providing timely notification to the Authority in the case of an accidental discharge, each industrial/commercial user shall post in prominent view in all process areas a notice in the following form:

DEPTFORD TOWNSHIP MUNICIPAL UTILITIES AUTHORITY

8:30 am – 4:30 pm (856) 415-1111 Office

4:30 pm – 8:30 am (856) 853-4361 after Hours Emergency

7.4 Industrial Discharge Permit

7.4.1 Wastewater Discharges

No person shall discharge directly or indirectly into the Authority treatment works, any non-domestic wastewater without having first obtained an Industrial Discharge Permit issued by the Authority.

Any business exceeding discharge limits shall incur the costs of sampling, testing, and cleanup of affected sewer main via jetting and vacuuming.

7.4.2 Industrial Discharge Permit Applications - Industrial/Commercial Users

All industrial/commercial users proposing to connect to or discharge sewage or non-domestic wastewater to the Authority treatment works shall complete and file with the Superintendent of Operations an application for an Industrial/Commercial Discharge Permit in the form prescribed. Existing industrial/commercial users shall file an application within ninety (90) days of the being notified by the Superintendent of Operations, and proposed new industrial/commercial users shall file an application at least ninety (90) days prior to connecting to the treatment works. The application to be made by the industrial/commercial user shall be on a form prepared by the Superintendent of Operations and shall provide the information required thereby, including:

- A. Name, address, telephone and fax numbers, and location of the industrial/commercial user's facility which discharges to the Authority treatment works.
- B. Name, title and telephone and fax numbers of contact person.
- C. Standard Industrial Classification (SIC) Code, if applicable.
- D. Description of the nature of facility and/or products manufactured.
- E. Average daily wastewater flows or water consumption.
- F. Description of facilities and plant processes on the premises including all materials that are or may be discharged to the treatment works.
- G. Copies of site plans, floor plans, mechanical and plumbing plans and details showing all sewers, sewer connections, inspection manholes, sampling chambers and appurtenances by size, location and elevation.
- H. Nature and concentration of pollutants or materials in the wastewater discharged to the treatment works, as determined by approved test procedures.
- I. All application forms shall be signed by an Authorized Representative of the User. If engineering reports, drawings or specifications are provided as part of the application, the application form shall also be signed by a New Jersey licensed Professional Engineer.
- J. The Authority reserves the right to require such information from an

Industrial/Commercial User as may be required from a Significant Industrial User, if in the discretion of the Authority, such information is necessary to adequately analyze and regulate the discharge of pollutants by the industrial/commercial user into the treatment works of the Authority.

7.4.3 Industrial Discharge Permit Applications - Significant Industrial/Commercial Users

All significant Industrial/commercial Users proposing to connect to or discharge sewage or non-domestic wastewater to the Authority treatment works shall complete and file with the Superintendent of Operations an application in the form prescribed. Existing Significant Industrial/commercial Users shall file an application for an Industrial Discharge Permit within 120 days of the effective date of this Regulation, and a proposed new SIU shall file an application at least ninety (90) days prior to connecting to the treatment works. The application to be made by the SIU shall be on a form prepared by the Superintendent of Operations, and shall provide the information required thereby, including:

- A. Name, address, telephone and fax numbers, and location of the significant industrial user's facility which designates to the Authority treatment works.
- B. Name, title and telephone and fax numbers of contact person.
- C. Standard Industrial Classification (SIC) Code.
- D. Description of wastewater constituents and characteristics including but not limited to those contained in Tables I and II of this Regulation, as determined by approved test procedures.
- E. Time and duration of discharges.
- F. Average daily and instantaneous peak wastewater flow rates, in gallons per day, including daily, monthly and seasonal variations, if any. All flows shall be measured unless the Authority approves other verifiable techniques.
- G. Copies of site plans, floor plans, mechanical and plumbing plans and details showing all sewers, sewer connections, inspection manholes, sampling chambers and appurtenances by size, location and elevation.
- H. Description of activities, facilities and plant processes on the premises including all materials which are utilized as well as all materials which may be discharged to the Authority Treatment Works.
- I. Description of the nature and concentration of any pollutants or materials prohibited by this Regulation in the process or which will be discharged, together with a statement indicating whether compliance is being achieved with this Regulation on a consistent basis and if not, whether additional operation and maintenance activities and/or additional pretreatment is required for the significant industrial user to comply with this Regulation.
- J. Where additional pretreatment and/or operation and maintenance activities will be

required to comply with this Regulation, a proposed schedule containing the shortest amount of time necessary to provide such additional pretreatment and/or implementation of additional operational and maintenance activities as may be required.

- K. Description of each product produced by type, amount, process or processes and rate of production.
- L. Description of the type and amount of raw materials utilized (average and maximum per day).
- M. Any other information deemed necessary by the Authority to evaluate the user's discharge.
- N. All application forms shall be signed by an authorized representative of the user. If engineering reports, drawings or specifications are provided as part of the application, the application shall also be signed by a New Jersey licensed Professional Engineer.

7.4.4 Industrial Discharge Permits

- A. No Industrial/Commercial User or Significant Industrial User shall discharge to the Authority treatment works except in accordance with the terms and conditions of an Industrial Discharge Permit (Permits@) as issued by the Authority.
- B. Industrial/Commercial Users and Significant Industrial Users shall complete and file with the Authority, an application in the form prescribed by the Authority. The Authority will evaluate the data furnished by the User and may require additional information. After evaluation and acceptance of the data furnished, the Authority may issue an Industrial Discharge Permit subject to the terms and conditions provided herein.
- C. Industrial Discharge Permit conditions shall be expressly subject to all provisions of this Regulation and all other rules, regulations, user charges and fees that are in effect or which may be established by the Authority, NJDEP or USEPA. The Authority may impose the following terms in the issuance of the Permit:
 - 1. Limitations upon the characteristics and quantities of wastes and the rate of flow permitted from the premises.
 - 2. The installation and maintenance by the User at its own expense of facilities or equipment for intermittent or continuous measurement of sewage, industrial wastes or other wastes discharged; detention tanks or other facilities or equipment for reducing the maximum rates of discharge; pretreatment and flow control facilities; suitable control or sampling manhole or manholes; grease, oil and sand interrupters, separators or traps.
 - 3. The submission to and approval by the Authority of plans and specifications for any of the facilities or equipment required to be installed and maintained

- by the User, and compliance schedules for the installation and maintenance of these facilities.
4. Maintenance and retention of appropriate records of all measurements made by the User of sewage, industrial wastes or other wastes as specified by the Authority and providing the Authority access thereto.
 5. The submission to the Authority of periodic reports setting forth adequate data upon which the acceptability of the sewage, industrial wastes or other wastes may be determined subsequent to the commencement of operation of any pretreatment or flow control facilities.
 6. Specifications for monitoring programs that may include sampling locations, frequency and method of sampling, number, type and standards for tests and a reporting schedule.
 7. Requirements for notification to the Authority of any new introduction of wastewater constituents or any substantial change in the volume or character of the wastewater constituents, whether permanent or temporary, being introduced into the Authority treatment works.
 8. Schedules for operational changes, modifications to existing pretreatment equipment, or the installation of new pretreatment equipment, so as to achieve compliance with the conditions of the permit.
 9. Payments to cover the added cost of handling and treating the waters or wastes, when payments are not covered by existing sewer charges.
 10. Requirements for notification of accidental discharges.
 11. Payment to cover the cost of permit administration and testing, when payments are not covered by existing sewer charges.
 12. Such other terms and conditions as may be necessary to protect the Authority treatment works and to carry out the intent and provisions of this Regulation.
- D. Permits shall be issued for a specified time period, not to exceed five (5) years. The User shall submit such information, forms and fees as are required by the Authority for renewal no later than 180 days prior to the date of expiration. If the permit is not reviewed by the Authority prior to the expiration of the permit, the permit shall be extended until such time as the Authority reissues the permit.
- E. Industrial Discharge Permits are issued to a specific user for a specific operation. An Industrial Discharge Permit shall not be assigned, transferred or sold to a new owner, new user, different premises or a new or modified operation.
- F. Any user, who violates any conditions of the permit, or this Regulation or applicable State and Federal regulations, is subject to having its permit revoked or suspended.
- G. The terms and conditions of a Permit are subject to modification and change by the

Authority during the life of the Permit as limitations or requirements are modified and changed. The user shall be informed of any proposed changes in its permit at least thirty (30) days prior to the effective date of change. Any change or new conditions in the permit shall include a reasonable time schedule for compliance. The user may request, by certified mail, a hearing from the decision of the Authority to modify the permit. The burden of proof shall be on the user to show that the permit should not be modified or modified to the extent indicated.

- H. A permit modification shall be requested by a user that intends to make any changes or additions to its facilities or to any process that will result in a change to the quantity or characteristics of any discharge regulated by an Industrial Discharge Permit. The permit modification request shall be made at least ninety (90) days prior to the date of the proposed modification. The user shall not make any change or addition to its facilities or processes that will result in a change to the quantity or characteristics of any wastewater discharge until such time as the Authority issues a modified Industrial Discharge Permit.
- I. A user shall give ninety (90) days= written notice to the Authority of any proposed change or addition to the facilities or processes that will not result in a change to the quantity or characteristics of any wastewater discharge regulated by an Industrial Discharge Permit.

7.4.5 Liquid Waste Haulers

No person shall discharge holding tank waste into the treatment works of the Authority.

7.4.6 Records and Monitoring

- A. All industrial users, whether or not Significant Industrial Users, who discharge or propose to discharge wastewaters to the treatment works, shall maintain such records of production and related factors, effluent flows, and pollutant amounts or concentrations as are necessary to demonstrate compliance with the requirements of any applicable State, Federal or Authority permit, regulation, pretreatment standard or requirement.
- B. Such records shall be made available upon request to the Superintendent of Operations. All such records relating to compliance with pretreatment standards shall also be made available to the NJDEP and the EPA upon request. A summary of such data indicating the industrial user's compliance with this Regulation shall be prepared when requested and submitted to the Superintendent of Operations. All records shall be retained for a minimum of ten (10) years and throughout the course of any pertinent litigation or administrative proceeding.
- C. The owner or operator of any facility discharging industrial wastes into the treatment works shall install at its own expense suitable monitoring equipment to facilitate the accurate observation, sampling, and measurement of wastes. Such equipment shall

be maintained in proper working order and shall be kept safe and secure from unauthorized entry or tampering, and shall be accessible to Authority personnel at all times. This paragraph does not preclude the Authority from installing such equipment at its own expense.

- D. If more than one (1) industrial user discharges into a common sewer, the Superintendent of Operations may require installation of separate monitoring equipment for each industrial user. If there is a significant difference in wastewater constituents and characteristics produced by different operations of a single industrial user, the Superintendent of Operations may require that separate facilities be installed for each discharge.
- E. Whether constructed on public or private property, the monitoring facilities shall be constructed in accordance with Authority requirements and all applicable construction standards and specifications. Plans and specifications for all such work will be submitted to the Superintendent of Operations for approval prior to construction.

7.4.7 Admission to Property, Inspection, Sampling and Analysis

- A. All users shall permit Authority personnel, upon presentation of appropriate credentials, to enter upon the premises of the user at any time for the purpose of inspection of the premises or measuring, sampling, or testing of any discharge of wastewater to the treatment works in order to determine compliance with the requirements of this Regulation, or Federal, State or Authority regulations or permits.
- B. All industrial users proposing to discharge into any part of the treatment works shall provide a sampling point that is representative of the discharge and is and approved by the Superintendent of Operations. This sampling point must be available to the Authority at all times for purposes of conducting sampling inspections, compliance monitoring and metering operations.
- C. Compliance determinations by the Superintendent of Operations with respect to Section 2 prohibitions and limitations shall be made on the basis of either grab samples or composite samples as deemed appropriate by the Superintendent of Operations to meet the requirements of a specific situation.
- D. Laboratory analyses of industrial wastewater samples shall be performed in accordance with an approved test procedure as defined in Section 1.2 and shall be performed by a laboratory certified by NJDEP to do the analyses.
- E. Sampling of industrial wastewater for the purpose of compliance determinations with Section 2 prohibitions and limitations shall be done at such intervals as the Superintendent of Operations may designate.
- F. A user may have its required laboratory sampling and analysis performed by any certified laboratory. However, an Authority representative must be present during the sampling event, or otherwise the Authority will not accept the subsequent

analysis. A user must provide twenty-four (24) hours' notice to the Authority of the date and time of sampling. All approved chain of custody procedures must be followed and an approved chain of custody certificate shall be provided to the Authority with the laboratory analysis.

7.4.8 Confidential Information and Public Access

- A. Information and data concerning an industrial user obtained from reports, questionnaires, permit applications, permits and monitoring programs and from inspections shall be available to the public as a public document unless the industrial user specifically requests and is able to demonstrate to the satisfaction of the Authority that the release of such information would divulge information, processes or methods of production entitled to protection as trade secrets or as a business confidentiality as that term is defined and applied in 40 CFR Part 2. Wastewater constituents and characteristics (i.e., effluent data) will not be recognized as confidential information. For the purposes of this section, effluent data shall have the meaning set forth at 40 CFR 2.302(a) (2). Local procedures for the handling of confidential information shall be as contained in Subchapter 11 of the A Regulations Concerning the New Jersey Pollutant Discharge Elimination System@, N.J.A.C. 7:14A-1.1 et seq., unless other procedures are established by regulation.
- B. When information accepted by the Authority as confidential is requested by the EPA or the NJDEP, the Authority shall attempt to serve the user with written notice of intent to disclose at least ten (10) working days in advance of the disclosure by certified mail/return receipt requested. The Authority shall submit the claim of confidentiality to the EPA or NJDEP with the information. Such information shall be available for use by the EPA or NJDEP in judicial review or enforcement proceedings involving the person or facility furnishing the report.
- C. Non-confidential files on users are open to the public for inspection at the Authority's office during normal business hours. Photocopies of documents contained in such files may be provided upon request, subject to the availability of a copy machine. The Authority shall impose a charge for copies at the maximum rate established by statute. Requests for reviews of such files shall be made in writing and appointments shall be required.

7.5 Enforcement Procedures

7.5.1 Enforcement Actions

- A. Whenever the Superintendent of Operations finds that any person is in violation of any provisions of this regulation, an Industrial Discharge Permit or any regulation or permit issued pursuant to the Act or State Act, he/she shall:
 - 1. Issue a Notice of Violation containing an order requiring such person to comply with the regulation, permit or Act in accordance with Section 7.5.2

herein; or

2. Bring a civil action in accordance with Section 7.5.3 herein; or
3. Bring an action for a civil penalty in accordance with Section 7.5.4 herein; or
4. Request the Attorney General or County Prosecutor to bring a criminal action in accordance with the State Act; or
5. Issue an order suspending the wastewater treatment service or Industrial Discharge Permit of such person in accordance with Section 7.5.5; or
6. Issue an order terminating the wastewater treatment service or Industrial Discharge Permit of such person in accordance with Section 7.5.6; or
7. Recalculate the connection fees or sewer service charge of the User based upon the quantity or characteristics of the wastewater discharged to the treatment works, in accordance with Section 7.5.7.

Use of any one of the remedies specified under this section shall not preclude the use of any of the other remedies specified.

7.5.2 Notice of Violation

- A. Whenever the Superintendent of Operations finds that any person is in violation as aforesaid, he/she may issue an order (1) specifying the provision or provisions of the regulation, permit or Act of which the user is in violation, (2) citing the action which caused such violation, (3) requiring compliance with each such provision within a time schedule determined by the Authority, and (4) giving notice to the user of his/her right to a hearing on the matters contained in the order.

7.5.3 Civil Action

- A. The Superintendent of Operations is authorized to commence on behalf of the Authority a civil action in Superior Court for appropriate relief for any violation as aforesaid. Such relief may include singly or in combination:
 1. A temporary or permanent injunction;
 2. Assessment of the violator for the reasonable costs of any investigation, inspection or monitoring survey which lead to the establishment of the violation, and for the reasonable cost of preparing and litigating the case under this subsection;
 3. Assessment of the violator for any reasonable costs incurred by the Authority in removing, correcting or terminating the violation or the adverse effects upon water quality caused by the violation for which legal action is brought;
 4. Assessment against the violator of compensatory damages for any loss or destruction of wildlife, fish or aquatic life or other natural resources or for any other actual damages caused by a violation;

5. Assessment against the violator of the actual amount of any economic benefits accruing to the violator from a violation. Economic benefits may include the amount of any savings realized from avoided capital or non-capital costs resulting from the violation; the return earned or that may be earned on the amount of avoided costs; any benefits accruing to the violator as a result of a competitive market advantage enjoyed by reasons of the violation; or any other benefits resulting from the violation.

7.5.4 Civil Penalty

The Superintendent of Operations is authorized to commence a civil action on behalf of the Authority in Superior Court pursuant to the State Act and/or the New Jersey Environmental Rights Act seeking an order of the Court for a civil penalty against the violator not to exceed the maximum penalty allowed per day by the State Act for such violation, with each day's continuance of the violation constituting a separate violation.

7.5.5 Suspension of Service

- A. Whenever the Superintendent of Operations finds that any person is, or is likely to be, in violation of any provision of this regulation, an Industrial Discharge Permit or any regulation or permit issued pursuant to the Act or State Act, the Superintendent of Operations is authorized to issue a Notice of Suspension temporarily suspending wastewater treatment service to, and/or the Industrial Discharge Permit of, the user.
- B. Any person notified of a suspension of the wastewater treatment service and/or Industrial Discharge Permit shall immediately stop its discharge to the treatment works. In the event that the person fails to stop such discharge to the treatment works, the Superintendent of Operations may take such steps as are deemed necessary, including the immediate discontinuation of water service or the physical severance of sewer service to prevent or minimize such damage as is likely to occur.
- C. In the event of suspension of service, the user shall submit a detailed written statement to the Authority describing the causes of the violation and the measures taken to prevent future occurrence. This statement shall be submitted to the Authority within three (3) days of the date of the occurrence and shall be a condition precedent to the reinstatement of wastewater treatment service or the Industrial Discharge Permit.
- D. The Superintendent of Operations shall reinstate the wastewater treatment service and/or Industrial Discharge Permit only upon receipt of proof satisfactory to the Superintendent of Operations that the discharge, which was found to be in violation, has been abated and that the cause of the violation has been eliminated.
- E. The Superintendent of Operations shall give notice to the person affected of his/her right to a hearing. The order for suspension of service, however, shall not be stayed by the filing of the request for a hearing.

7.5.6 Termination of Service

- A. Whenever the Superintendent of Operations finds that any person has committed any of the following violations, the Superintendent of Operations may issue a Notice of Termination terminating the wastewater treatment service to, and/or the Industrial Discharge Permit of, the user:
1. Material misrepresentation of any item on, or material submitted with, an application for an Industrial Discharge Permit; or
 2. Failure of the industrial user to accurately report the concentrations and characteristics of its wastewater discharge; or
 3. Failure to provide reasonable access to the user's premises for the purpose of inspection, testing or monitoring; or
 4. Failure to report an accidental discharge or a significant change in operations or in wastewater concentrations or characteristics; or
 5. Three (3) or more violations of the provisions of these regulations or of the Industrial Discharge Permit or of any regulation or permit issued pursuant to the Act or State Act relating to sewer discharges; or
 6. Violation of the Deptford Township Grease Trap Ordinance.
- B. The Superintendent of Operations shall notify the person of his/her right to a hearing on the matters contained in the termination order. The filing of a Notice of Appeal from the termination order shall not stay the termination of service.

7.5.7 Recalculation of Sewer Connection Fee or Service Charge

- A. Whenever the Superintendent of Operations finds that any person has misrepresented, on an application for an Industrial Discharge Permit, the amount of wastewater to be discharged, or that any person has discharged wastewater in excess of the amount of wastewater permitted under an Industrial Discharge Permit, the Superintendent of Operations shall recalculate the connection fees due and owing by the user and shall present the user with a statement containing the recalculated connection fees. The user shall pay the recalculated connection fees within fifteen (15) days of receipt of the statement. In the event that the recalculated connection fees are not paid in full within the time required, interest shall accrue on the recalculated connection fees at the rate of one and one-half percent (12%) per month, and the Superintendent of Operations shall terminate sewer service to the user until such time as the recalculated connection fees, including accrued interest, are paid in full.
- B. Whenever the Superintendent of Operations finds that the characteristics of the wastewater discharged by a user exceed the discharge parameters allowed under an Industrial Discharge Permit, the Superintendent of Operations shall impose a surcharge for the treatment of such wastes in accordance with the formula for such

surcharge as is contained in the Authority's rate schedule. The sewer service charges shall be recalculated for the period of time during which the Superintendent of Operations reasonably believes that such discharges in excess of the parameters permitted by the Industrial Discharge Permit have continued, but in no event, less than one (1) complete billing period for the user. The recalculated sewer service charges shall be presented to the user, who shall pay such recalculated service charges within thirty (30) days of receipt. In the event that the user does not pay the recalculated sewer service charges within such period of time, then interest at the rate of one and one-half percent (12%) per month shall accrue on all such recalculated sewer service charges and the Superintendent of Operations shall terminate water and/or sewer service to the user until such time as the recalculated sewer service charges, plus all accrued interest, are paid in full.

- C. The surcharge for treatment of wastes referred to in the preceding paragraph shall be based on the following formula:

BOD* in mg/l	÷	300 mg/l	×	33	=	xxxx
TTS* in mg/l	÷	300 mg/l	×	33	=	xxxx
Oil & Grease* in mg/l	÷	100 mg/l	×	34	=	xxxx
					+	xxxx%
TOTAL Surcharge Percentage						

* Where the actual concentrations are less than 300 mg/l for BOD or TSS or 100 mg/l for F.O.G., the value in the parentheses shall be equal to "1".

7.5.8 Right to a Hearing

- A. In the event that any person receives a Notice of Violation pursuant to 5.2, a Notice of Suspension pursuant to 5.5, a Notice of Termination pursuant to 5.6, or a recalculation of a sewer connection fee or service charge pursuant to 5.7, the person may appeal such notice by filing with the Authority within fifteen (15) days of receipt of such notification, a written request for a hearing from such notification. The written request shall include the following:
 1. The name, address and telephone number of the user and its authorized representative;
 2. A detailed admission or denial of each of the findings contained in the notice;
 3. The user's affirmative defenses to each allegation contained in the notice;
 4. Copies of all written documents that will be relied upon by the user in the presentation of its defense.

The failure to provide all of the information required above as part of the request for a hearing shall constitute a waiver of the right to a hearing by the user.

- B. A hearing shall thereafter be scheduled before the Authority at which time the Superintendent of Operations or his/her designee as well as the person aggrieved

may present evidence regarding either the violation or the penalty proposed. All parties shall be entitled to be represented by counsel at the hearing. The burden of proof shall be upon the user. The determination made by the Authority shall be in writing and shall be sent by certified mail to the user within thirty (30) days of the close of the hearing, unless both parties agree to a longer period of time.

7.6 Fees

7.6.1 Permit Fee

A fee associated with permitting for industrial/Commercial Users and Significant to cover administrative expenses, reviews of discharge monitoring reports and inspections as may be required will be determined on a case-by-case basis by the Authority Engineer and Executive Director.

7.6.2 Sampling Inspection Fees

The sampling inspection fee includes administrative expenses and inspection expenses for the inspection of a sampling event by an independent certified laboratory. The sampling inspection fee shall be determined on a case-by-case basis by the Authority Engineer and Executive Director.

7.7 Miscellaneous

7.7.1 Severability

If any provision, paragraph, word, section or article of this Regulation is invalidated by any court of competent jurisdiction, the remaining provisions, paragraphs, words, sections, and articles shall not be affected and shall continue in full force and effect.

7.7.2 Conflict

All other Regulations and parts of other Regulations inconsistent or conflicting with any part of this Regulation are hereby repealed to the extent of such inconsistency or conflict.

7.7.3 Effective Date

This regulation shall take effect immediately.

Section 8 Main Extensions: Water and Sewer

8.1 General Provisions

- A. Persons proposing subdivision or site plans requiring a main extension for sewer or water service shall prepare applications described in this section with the necessary supporting documents. The policy of the Authority is to permit extensions only when paid for and installed by the applicant. All utility main extensions shall be extended along the full frontage of the subject property. No facilities for collection, treatment, or disposal of sewage or for the distribution of water within the "district" of the Authority shall be constructed unless the Authority shall give its consent and the Authority Engineer shall approve contract plans and specifications therefore.
- B. It is the policy of the Authority to charge connection fees for connection to its water and sewer system following the Schedule of Rates. An offset to the connection fee may be considered by the Authority for user installed water supply and storage, water distribution in excess of user needs, and for sewer collection in excess of user needs.
- C. All work must be installed in accordance with the Township of Deptford Municipal Utilities Authority Rates, Rules and Regulations.
- D. The Municipal Utilities Authority Engineer will be inspecting the first two feet (2') of backfill for proper compaction over water and sewer main installations. As per previous cooperation with the Township Engineer; they will be responsible for all inspection of the trench above that point.
- E. All work must be inspected by the Municipal Utilities Authority Engineer. The developer must notify our Chief Field Representative, at least seventy-two (72) hours in advance of starting work on the site.

A performance bond in the amount of one hundred and twenty percent (120%) of the total estimated construction costs must be posted with the Authority prior to commencement of work in place. The Authority requires that ninety percent (90%) of the performance guarantee be in the form of a bond or letter of credit and the remaining ten percent (10%) be in the form of cash (or check) deposited into an escrow account set up by the Authority specifically for each project.

- F. An inspection escrow of five percent (5%) of total bonding cost must be posted with the Municipal Utilities Authority prior to commencement of work.
- G. All existing soil used for backfill of trenches must be approved by the Municipal Utilities Authority Engineer for the first two (2) feet of backfill. Clay and organic type soil is not permitted for backfill.
- H. All backfill must be compacted in eighteen (18") inch lifts with a jumping jack or roller. No plate tampers are permitted.
- I. All work performed for the Authority or in the Authority's jurisdiction shall comply with

all OSHA and PEOSHA safety standards relating to but not limited to Trenching and Shoring, Confined Space Entry, Work Zone Safety and Personal Protective Equipment.

- J. Sanitary sewer and water mains to be tested prior to building permits being issued. Shop drawings are to be submitted for approval prior to start of construction.
- K. Upon completion of utility improvements and base paving, the applicant must request a pre-final inspection/punch list be prepared. Construction items that are uncompleted or unsatisfactory must be addressed prior to the installation of the top course of paving.
- L. If directed, concrete grid paving units shall be installed in easement areas that are to be dedicated to the Authority.
- M. As per the Rates, Rules and Regulations, all sewers shall be cleaned and flushed in an acceptable manner prior to performance bond release.
- N. "Buy American" Provision
 - i. All items or materials used in the construction of water or sewer plants, mains or appurtenances, or other projects, which are constructed by a private contractor for a customer but which are to be deeded or dedicated to the Authority and accepted by the Authority for ownership and maintenance, shall be manufactured products of the United States, wherever possible.
- O. Plumbing and floor plans to be submitted for commercial buildings for site plan approval.

8.2 Applications - General

A sequence of applications for sewer and water extensions are required for the Authority's determination of needs, availability of service, effect of proposed extension, and inspection of installed extension. Application forms are available from the Authority. Chart I – Summary of Application Forms on Page 8-35 outlines the contents of this Section and describes the sequence of applications, forms, supporting data, fees, and Authority action that results in acceptable main extensions for water and sewer. No application will be considered unless a Professional Engineer, registered in the State of New Jersey is in charge of the planning and design of the proposed sewerage and water distribution facilities and has affixed his/her seal and signature thereto. Each application shall be submitted in duplicate with the designated fee to the Authority not less than thirty (30) days prior to the Authority meeting. The MUA will have ninety (90) days to act on a complete application form.

Applications shall be signed by the Owner or Owners, or by a proper official of the company, or, if signed by an authorized agent, a certified copy of authorization of the company shall be attached to the application.

All fees accompanying applications shall be cash, certified check or acceptable other draft at the option of the Authority. Escrow fees are for professional reviews and inspections. These

fees will be paid at each level of application submission. Outstanding balances will be refunded after all obligations have been met by the Authority at the time of total project completion, and legal acceptance by resolution or at the time of rejection. Before proceeding to the next level of application, it may be necessary to satisfy any outstanding deficit at the preceding application level.

8.3 Application for Feasibility - Form A

8.3.1 Purpose of Application

An application describing the proposed subdivision of development (residential, commercial, industrial or other) shall be submitted to the Authority with supporting data to determine the economic and technical feasibility of extending sewer and/or water service. The Authority may defer or waive certain parts of this supporting data at its discretion where the cost of data preparation is not commensurate with the development or project planning and approvals. Upon approval of the Authority Engineer, the applicant may submit Forms "A" and "B" together accompanied by all necessary fees.

8.3.2 Forms and Supporting Data

FORM A: APPLICATION FOR REPORT ON FEASIBILITY OF PUBLIC SEWER AND/OR WATER, RECOMMENDATIONS AND CONDITIONS

In addition to preparation and submission of the application, the applicant shall furnish a general location plan showing streams, streets, blocks, lots, and tax map numbers, copy of application submitted to the Planning Board if required, location of any existing water distribution and/or sanitary sewer systems in the area, proposed system outline and route of construction, and estimated usage of water and sewer rates.

8.3.3 Fees

Application will be accompanied by the appropriate sewer and or water fees as set in Section 20 Fee Schedule, with a separate minimum fee for each to be deposited into escrow funds for professional reviews.

It shall be the obligation of the applicant to maintain an adequate Escrow and Inspection Fee account for professional reviews and inspections. In the event that such account becomes delinquent, and in the event that the applicant does not properly replenish such account within thirty (30) days of written notice from the Authority, then and in that event any and all permits and approvals shall be revoked until such time as such account is brought into compliance.

8.3.4 Action by Authority

The Authority shall analyze submitted application and supporting data and report to the applicant the Authority's recommendations and/or findings.

8.3.4.1 Subdivision and Site Plans

On all Subdivisions and Site Plans the Authority shall issue Form A-1 "Report on Feasibility" to the applicant for his/her submittal to the Planning Board for their classification of sketch plan or conceptual plans for his/her project.

If the project is shown to be feasible, the applicant shall also receive a letter of recommendations and conditions from the Authority along with Form B "Application for Preliminary Review of Plans for Public Sewer and/or Water" for the Applicant's submittal.

If the Authority determines that the proposed subdivision or development is too remote for extending sewer and/or water service, or contains three or less building sites or there are other circumstances peculiar to this application, the Authority may do the following:

- a) Waive the application and fee
- b) Send Form A-3 "Approval to Install On-site Disposal Systems and/or Potable Water Systems as Approved by the Board of Health" to the applicant, construction official, and the County Board of Health.
- c) Approve the application and waive all subsequent applications.

8.3.5 Time Limits

This approval granted by the Authority shall expire one (1) year from the date of approval by the Authority, which approval may be extended, for good cause, by the Authority for an additional one (1) year period at which time it will expire.

8.4 Application for Preliminary Approval - Form B

8.4.1 Purpose of Application

An application and supporting data specifying the engineering details of the proposed project will be analyzed for compliance with Authority engineering standards including provisions for orderly growth.

This form is filed as an initial request after approval of Form A on all subdivisions.

8.4.2 Forms and Supporting Data

Form B - "Application for Preliminary Review of Plans for Public Sewer and/or Water". The application shall be accompanied by six (6) copies of the Engineers' Report as described in Section 12.7 The Engineer's Report (Minimum Technical Design Standards – Sewerage) and Section 13.4 Engineer's Report (Minimum Technical Design Standards – Water).

In addition, applicant shall submit all data required by the current Rules and Regulations of the Gloucester County Utilities Authority and the New Jersey Department of Environmental Protection. The applicant shall submit the Sewer and/or Water Permit Application and the applicant shall pay all fees of the Gloucester County Utilities Authority and the New Jersey Department of Environmental Protection. Permits to construct sewers, water mains and/or

other structures within flood plains, wetlands and the right-of-way limits of state, county, municipal roads and all railroads, and all other permits must be secured by and paid for by the applicant.

The applicant must inform and secure any necessary clearance and/or approval from any public utility involved. Proof of such notice and/or approvals shall be filed with the Authority.

The applicant shall file the following fully executed papers with the Authority for submission to the New Jersey Department of Environmental Protection for State sewer and/or water permits:

8.4.2.1 For Sewer Permit Submittal - Six (6) copies of the following:

- a) Completed copies of the Treatment Works Approval (TWA) application and copies of Certified Mail Receipts indicating proper distribution.
- b) Completed Dry Sewer Affidavit (if required by the Gloucester County Utilities Authority)
- c) Copies of Engineer's Report on Sanitary Sewer System
- d) Copies of Municipal Utilities Authority approved sanitary sewer plans and profiles
- e) Sets of Sanitary Sewer Specifications
- f) Copies of the Letter of Concurrence from the County Utilities Authority
- g) Check for State review fees.

After Form B approval, TWA applications are reviewed and signed off by the Authority Engineer and Executive Director/Designee. If necessary, for sewer extension approval, the package is to be submitted to the Gloucester County Utilities Authority (GCUA).

The Authority will then adopt a resolution authorizing the Authority Engineer/Applicant to submit the plans and supporting data to the New Jersey Department of Environmental Protection for their approval and issuance of the necessary permits.

8.4.2.2 For Water Permit Submittal – Four (4) copies of the following:

- a) Completed copies of the Bureau of Safe Drinking Water (BSDW) permit application form
- b) Copies of Engineer Report for Potable Water System
- c) Sets of Municipal Utilities Authority approved Potable Water Plans
- d) Site Plans
- e) Sets of Potable Water Specifications

After Form B approval, BSDW applications are reviewed and signed off by the Authority Engineer and Executive Director/Designee.

The Authority will then adopt a resolution authorizing the Authority Engineer/Applicant to submit the plans and supporting data to the New Jersey Department of Environmental Protection for their approval and issuance of the necessary permits.

8.4.3 Filing, Review and Escrow Fees

The fee shall be determined as per the water and sewer fee in Section 20 Fee Schedule.

8.4.4 Action by Authority

The application and supporting data will be reviewed by the Authority to determine compliance with the Authority's comprehensive water and sewer distribution plan, these Rates, Rules and Regulation and Supplements thereto, applicable statutes, and projected growth patterns. A final condition of approval of this application shall be a mutual agreement between the applicant and the Authority regarding the terms and conditions for providing sewer and water service.

Any agreement at this stage would be conditioned upon the necessary endorsement from the GCUA and receipt of the approved permits from the NJDEP if required. A major element of this agreement shall include the legal description for all easements to be dedicated to the Authority as well as proof of executed easement agreements for water and sewer facilities that traverse land not owned by the applicant. Both easement legal descriptions and easements agreements shall include any restrictions prohibiting installation of fencing, storage sheds, shrubbery, and other landscaping on any easements to be turned over to the Authority. Proposed changes or modifications to Authority easements must be submitted and approved by the Authority.

When the Authority has approved the plans it will adopt a resolution authorizing submittal of plans to NJDEP for state sewer and/or water permit.

Resolution approving Form "B" shall be sent to the applicant and Planning Board. This abstract may be required by the Planning Board as part of the applicant's submittal for Planning Board final approval.

This approval is subject to the applicant providing all plans, data and specifications to the Authority and its consulting engineer within one (1) year from the date of the approving resolution or from the date of receipt of NJDEP permits, if required, at the earliest possible date. In the event that a good faith effort has not been made to obtain the NJDEP permits, if required, at the earliest possible date, this approval shall expire one (1) year from the date of the approving resolution. In any event, the approval under this section shall expire within three (3) years of the date of the approving resolution, unless extended by resolution of the Authority, which extension cannot exceed one (1) year per extension.

8.5 Application for Construction Approval - Form C

8.5.1 Purpose of Application

Following approval of the application for preliminary approval for a period not to exceed two years, the applicant may apply for construction approval. This application may be submitted as a sequence of applications as each segment of the total approved project is scheduled for construction.

This application provides a control on the extent and schedule of planned sewer and water facilities installation and establish a schedule for the Authority inspect of completed installations. This form is filed after approval of Forms "A" and "B" on all subdivisions.

8.5.2 Forms and Supporting Data

Form C: Application for Construction of Public Sewer and Water System

Where the plans of final sections which are being submitted for authorization to construct are identical to those approved by the Authority and the NJDEP, no additional sewer and water utility plans need accompany submittal. However, the project Professional Engineer shall sign, seal and certify a letter attesting the accuracy of plans.

The application shall be accompanied by six (6) sets of final data as approved on the Preliminary Approval, as per Paragraph 8.4.2. This data will be the basis of construction approval, inspection, and testing. Requested major revisions will be treated as resubmission of Preliminary Approval requiring review and approval. Such revisions are subject to the requirements of Paragraph 8.4 in its entirety.

This application shall also include fire hydrant plans as approved by the Fire Marshall.

8.5.3 Performance Bond or Surety Documents

The Authority requires the following as per State Statute of the Municipal and County Utilities Authorities law, which states:

40:14B-17. Maintenance, performance guarantee; cash requirement

A municipal authority shall not require that a maintenance guarantee required pursuant to Section 11 of P.L. 1999, c.11 (C.40:14B-73) be in cash of that more than 10% of a performance guarantee pursuant to that section be in cash. A developer may, however, provide at his option some or all of a maintenance guarantee in cash, or more than 10% of a performance guarantee in cash.

The Authority requires that ninety percent (90%) of the performance guarantee be in the form of a bond or letter of credit and the remaining ten percent (10%) be in the form of cash (or check) deposited into an escrow account set up by the Authority specifically for each project.

A Performance Bond or Surety Documents, satisfactory in form to the Authority, shall be submitted to the Authority prior to Authority approval of the application. The Bond or Letter of Credit shall be in the amount of 120 percent of the total estimated construction costs, as verified by the Authority, for that Final Section of Sections covered by the application. This Bond or Letter of Credit shall guarantee complete construction within the time period specified by the Authority and shall further guarantee that said construction shall be in accordance with the final plans and specifications approved by the Authority and by the NJDEP and any other applicable regulatory agency.

The Bond or Letter of Credit shall either contain no expiration date and indicate that it

remains in effect until acceptance by the Authority of the improvement or shall contain language indicating that the Bond or Letter of Credit shall not expire or shall contain language indicating that the Bond or Letter of Credit shall not expire unless 45 days prior written notice of such expiration has been provided to the Authority's Executive Director.

In the event that any project which has been approved by the Authority is transferred to another owner or developer, the Performance Bond or Surety Documents shall be also transferred to the new owner, in satisfactory form to the Authority, in accordance with these Rules and Regulations prior to the issuance of any permits.

The Bond Surety Documents shall remain in effect until the sanitary sewer collection system and related appurtenances and/or the water distribution system and related appurtenances are installed, tested and protected by an adequate layer of flexible bituminous paving constructed in accordance with prescribed engineering practices, or approved equal. Subject to the recommendation and approval of the Authority Engineer, the Bond or Surety Documents shall remain in effect until the owner or developer has obtained Form "D" approval from the Authority in accordance with their applicable Rules and Regulations and has posted the necessary two (2) year Maintenance Bond equal to fifteen percent (15%) of the Performance Bond.

The developer shall continue to be completely responsible for this Section of the system until it is legally accepted by Authority Resolution. A Section is typically legally accepted after the completion of the final road surfacing when the sewer and water systems receive final inspection and approval from the Authority Engineer.

Any and all approvals for a project shall cease in the event that any Performance Bond or Surety Document terminates, becomes of no further force and effect or if the Surety enters bankruptcy or receivership. In the event, the Authority may issue a stop work order and revoke any permits and approvals until such time as a proper Performance Bond or Surety Document in accordance with these Rules and Regulations is provided to the Authority.

8.5.4 Filing, Review and Inspection Fees

A fee of five (5%) percent of the total water and sewer construction cost as verified by the Authority Engineer and approved by the Authority shall be filed with the Authority in escrow funds to cover all costs related to review, inspection, and professional services required throughout construction period and continuing until legal acceptance by the Authority by the Adoption of Resolution. All necessary and required fees except connection fees must be paid prior to the Authority reviewing and/or approving the Application for Construction Approval.

It shall be the obligation of the applicant to maintain an adequate Escrow and Inspection Fee account for professional reviews and inspections. In the event that such account becomes delinquent, and in the event that the applicant does not properly replenish such account within thirty (30) days of written notice from the Authority, then and in that event any and all permits and approvals shall be revoked until such time as such account is brought into compliance.

Connection fees and charges as required by the Authority from the applicant and/or developer shall be paid upon the application for sewer and/or water permits.

8.5.5 Action by Authority

Upon approval of the application, the Authority shall grant approval for construction of the project to the extent requested and subject to the receipt of the necessary permits from the State and all other agencies.

Form C approval will be void and invalid after six (6) months, unless construction has commenced. Where construction has commenced within the six month period, the approval is automatically approved for successive six month period, to a maximum of two (2) years. In the event that construction has not continued during a six (6) month period, there shall not be an automatic renewal of the approval and such renewal shall be approved by the Authority by resolution.

8.6 Application for Acceptance - Form D

8.6.1 Purpose of Application

Upon satisfactory completion of construction, inspection, and testing, the applicant shall request the Authority to accept the installed system.

Ownership, maintenance and operation of the system shall be the responsibility of the Authority only after specific written acceptance by the Authority for the system, whether in whole or in part as issued by the Authority. Until this written acceptance is issued by the Authority, the ownership, maintenance and operation shall remain the responsibility of the applicant.

8.6.2 Forms and Supporting Data

Form D "Application for Title Transfer, Public Sewer and Water System" - When the Authority Engineer has determined that the project is completed and ready for legal acceptance by the Authority, he/she will submit a letter of certification that it has been built in accordance with the plans and specifications as approved by the Authority.

The applicant will then be notified to submit the following data:

- a) All necessary documents approved by the Authority that will permit the dedication of all necessary property and easements that are an inherent and necessary part of the completed project.
- b) Proof of payment of all fees and charges required by the Rates, Rules and Regulations up to and including this application.
- c) Proof of release of liens from all contractors, subcontractors and material suppliers.
- d) Proof that all construction "as built plans" have been submitted by the contractor to the Authority Engineer in specified version of electronic CADD format and paper form plans.

- e) Submit a Maintenance Bond in the amount of 15% of the construction costs for a two year time period.

8.6.2.1 As-Built Plans

The "as-built" plans shall contain all pertinent information such as, but not limited to, manhole to manhole distances, inverts and rim elevations required, lot and block numbers, sizes and type of pipe material, location of all wyes and tees, valves, fire hydrants, blow offs, and also certifications as detailed herein.

8.6.3 Action by the Authority

Upon receipt of all required data from the applicant, the Authority will:

- a) Instruct the Applicants Engineer to prepare the final specified version of electronic CADD format and paper as built plans for the Authority record. This will be charged against the developer's escrow account.
- b) Adopt a resolution legally accepting the facilities
- c) Release the Performance Bond and accept the Maintenance Bond
- d) Maintain and operate the system thereafter.

8.6.4 Sewer and Water Connections

Approved sewer and/or water connections shall be made to a street main only under the supervision and inspection of the Authority or the Authority Engineer. Connections to the sewer shall be made through an approved saddle. Connection shall be made in accordance with the direction of the Authority and/or its Engineer, or any other Authority designee.

The Gloucester County Board of Health has jurisdiction of house connections utilizing private septic systems.

8.7 *Application for Connection of an Individual Dwelling Unit into the Existing Authority System - Form E*

8.7.1 Purpose of Application

To determine the technical and economic feasibility of connecting sewer and/or water to the Authority system and to verify that the systems will be constructed in compliance with these Rates, Rules and Regulations.

8.7.2 Forms and Supporting Data

Form E "Application for Construction of Public Sewer and/or Water Systems for an Individual Dwelling Unit into an Existing Authority System".

Connections for new sewage and/or water services will be made upon completing the application at the Authority office by the property owner, or his/her authorized agent, and

filing with the Authority. Water and/or sewage service, through existing connections will be furnished, upon written application signed by the customer. Blank forms for all applications prepared for their respective service, will be furnished by the Authority and all applications must receive the approval of the Authority before connection is made, or any service furnished.

Application shall be accompanied by two (2) sets of plans prepared by a registered plumber showing the proposed line from the dwelling to the Authority main. Plans must include all elevations.

No applications 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 occupied by him.

A Bond or Letter of Credit shall accompany the application in the amount specified by the Authority Engineer.

The accepted application shall constitute a contract between the Authority and the applicant, obliging the applicant to pay the Authority its rates as established from time to time, and to comply with its Rates, Rules and Regulations.

Applications for service connections will be accepted subject to there being existing mains in streets or right of way in front of the premises to be served.

When a prospective customer has made application for a new service, or has applied for the reinstatement of an existing service, it shall be presumed that the piping and fixtures on the applicant's premises are in good condition. The Authority will not be liable in any event, for any accident, breaks, or leakage arising in any way in connection with the pipes or fixtures of the customer, or for any damage to the property which may result from the usage thereof.

A new application must be made upon any change in the service, from that described in the application, or in ownership of the property when the owner is the customer. The new customer shall be responsible for making application for approval by the Authority, before water and/or sewage service is received or continued. There will be no charge for filing application for change in type or service.

8.7.3 Fees

Connection charges in accordance with Section 20 Fee Schedule, or as agreed between the Authority and the applicant, shall be paid as part of this application.

8.7.4 Action by the Authority

The application and supporting data will be reviewed by the Authority. If it is determined that it is feasible to extend service and that the plans are in compliance with these Rates, Rules and Regulations, the applicant will be notified of the Authority approval and the connection fee. Upon receipt of the fee, the sewer and/or water permits will be issued to the applicant and copies forwarded to the construction official.

If it is not feasible to connect service to the dwelling, a letter from the MUA and Township

"Approval to Install On-site Sanitary Sewer and/or Water System as Approved by the Board of Health" will be issued to the applicant, the Gloucester County Board of Health, and the Construction Official.

8.7.5 Time Limits

This approval shall expire two (2) years from the date of the approving resolution.

8.8 Application for Industrial and/or Commercial Water and/or Sewer Connection - Form F

8.8.1 References

Section 7 Industrial and Commercial Services (Page 7-1)

Section 8 Main Extensions: Water and Sewer (Page 8-1)

Form "F" Application for review of plans for Public Water and/or Sewer (Page 8-31)

Chart I – Summary of Application Forms (Page 8-35)

Chart II – Summary of Authority Action (Page 8-37)

8.8.2 Time Limits

This approval shall expire two (2) years from the date of the approving resolution.

8.9 Performance & Maintenance Bond Procedures

The following should be the procedure followed with regard to Performance and Maintenance Bonds provided for various projects with the Deptford Township Municipal Utilities Authority:

The Authority should obtain the original document(s), either the Letter of Credit or Bond, and immediately submit copies to the Solicitor and the Engineer.

The Solicitor shall review the Bond or Letter of Credit to determine that it adequately protects the Authority's interests and meets the Rules & Regulations of the Authority, including either providing that the Bond does not expire until acceptance of the project by the Authority or that there is a provision that it cannot expire without advance notice to the Authority not later than sixty (60) days nor earlier than one hundred twenty (120) days prior to expiration, during which time the Authority can require the payment of the Bond funds if the project is not completed. Any Letter of Credit must contain a minimum base period of one (1) year.

The Solicitor shall also determine that the Bond or Letter of Credit is in proper legal form. All Bonds must be with an institution or company that has proper financial resources to support the Bond and shall determine that the remainder of the Bond or Letter of Credit is in proper legal form. All Bonds must be written with insurance companies which have an A.M. Best rating of at least "A". It is the responsibility of the applicant/developer to provide a rating sheet indicating this fact. All Letters of Credit shall be from banks located in the State of New Jersey or authorized to do business in the State of new Jersey.

The Solicitor shall then correspond with the Authority and shall send a copy of such Letter to the Engineer.

The Engineer shall review the Bond to determine that it adequately protects the Authority's interests, especially with regard to the amount of the Bond and that it properly designates the project.

The Authority Engineer shall also write a letter to the Authority with a copy to the Solicitor.

The Authority shall not issue any permits until having received the written response of both the Solicitor and the Engineer.

After receiving the written response of the Solicitor and Engineer, the Authority may issue the permit(s) after payment of the appropriate fee(s) and escrow(s) and the Authority Executive Director shall chart the development on a master list which shall be reviewed periodically to assure that all Performance Guarantees are in place at all times.

When a project has been approved with a Form "D" resolution and a maintenance bond has been submitted and approved, following the above procedures, a notation shall be made by the Executive Director for sixty (60) days prior to the expiration of the maintenance bond. On that date the Authority Engineer shall be notified of the approaching expiration date and shall be asked to review the project to determine if there is any outstanding issue which must be addressed prior to the expiration of the maintenance bond. A copy of the notice to the Authority Engineer shall be sent to the Authority Solicitor who shall also review his/her file to determine if there is any outstanding legal issue which must be addressed. A written response shall be directed from the Authority Engineer and Authority Solicitor to the Executive Director. REV 4-19-95

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**THE DEPTFORD TOWNSHIP
MUNICIPAL UTILITIES AUTHORITY
P.O. BOX 5506, DEPTFORD, NEW JERSEY 08096
TEL: [856] 415-1111 FAX: [856] 415-0199**

FORM "A"

FORM "A" Application for report on feasibility of extending Public Sewer and/or Water,
PURPOSE: To determine the economic and technical feasibility of extending public sewer and/or water
APPLICATION FEE: Sewer - \$50.00; Water - \$50.00 {Check should be made payable to the Deptford Township Municipal Utilities Authority}.
REVIEW FEE: Sewer - \$600.00; Water - \$600.00 {to be deposited into escrow funds for professional reviews.}

APPLICANT

NAME: _____ CONTACT PERSON: _____
ADDRESS: _____
TELEPHONE: _____ FAX: _____

PROJECT TO BE SERVICED

NAME: _____
ADDRESS: _____
AREA OF ENTIRE TRACT: _____ PORTION TO BE SERVICED: _____
NUMBER OF LOTS: _____ TAX MAP PLATE NUMBER: _____ BLOCK: _____ LOT: _____
TYPE: (CHECK) SINGLE FAMILY TOWNHOUSES INDUSTRIAL
 COMMERCIAL APARTMENTS OTHER _____

ACTION INITIATED WITH PLANNING BOARD

TYPE OF REQUEST: (CHECK) PLANNING BOARD APPLICATION TO BE SUBMITTED, IF REQUIRED.
 SUBDIVISION CLASSIFICATION
 ZONING CHANGE FROM ZONE _____ TO _____

DEVELOPMENT PLANS

CONSTRUCTION START DATE: _____ DURATION OF PROJECT: _____
APPLICANT INTENDS TO: SELL UNIMPROVED LOTS
 SELL IMPROVED LOTS
 SELL COMPLETED LOTS

PROFESSIONAL ENGINEER DESIGNING WATER/SEWER SYSTEM:

SIGNATURE: _____ (SEAL)
ADDRESS: _____
TELEPHONE: _____

DESCRIPTION OF PROPOSED SYSTEMS:

WATER: _____

SEWER: _____

SUPPORTING DATA REQUIRED:

- (a) General location plan showing streams, streets, blocks, lots, and tax map numbers, existing water mains, existing sewer mains, three (3) Copies _____
- (b) Proposed System outlines sizes, and routes of construction _____
- (c) Estimated rates of flow _____

DATE PRINT NAME SIGNATURE OF APPLICANT

ACTION: Form A-1 or Form A-2, whichever is applicable, will be issued to applicant and Planning Board within 45 days after this application has been received at the MUA office.

DO NOT WRITE BELOW THIS LINE – FOR DTMUA USE ONLY

DATE APPLICATION RECEIVED: _____ AMOUNT OF CHECK (S): _____

SIGNATURE OF DTMUA: _____

ACTION BY AUTHORITY

1. SUBDIVISION CLASSIFICATION:

FEASIBILITY: FEASIBLE NOT FEASIBLE

2. ZONING CHANGE:

3. REPORT ISSUED BY AUTHORITY ENGINEER YES NO



**THE DEPTFORD TOWNSHIP
MUNICIPAL UTILITIES AUTHORITY
P.O. BOX 5506, DEPTFORD, NEW JERSEY 08096
TEL: [856] 415-1111 FAX: [856] 415-0199**

FORM "A"

PROJECT: _____

PROJECT NO: _____

**DEPTFORD TOWNSHIP MUNICIPAL UTILITIES AUTHORITY
FORM "A" REQUIREMENTS
[CHECK LIST]**

- Application complete and signed by Owner
- Payment of Fees
- Copies of filed deeds for any and all utility easements
- PDF copy of all plans and reports in original sizes
- General Location Plan indication [3 Sets]:
 - Streams
 - Streets
 - Block, Lots and Tax Map Numbers/Plate Number
- Copy of the Planning Board Application
- Location of any existing water mains
- Location of any existing sewage systems
- Proposed system(s) outline
- Route of construction
- Estimated flow rate calculations
- Location of any and all utility easements clearly shown on plan

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**THE DEPTFORD TOWNSHIP
MUNICIPAL UTILITIES AUTHORITY
P.O. BOX 5506, DEPTFORD, NEW JERSEY 08096
TEL: [856] 415-1111 FAX: [856] 415-0199**

FORM "B"

FORM "B" Application for preliminary review of plans for Public Sewer and/or Water.

PURPOSE: This application and supporting data specifying the engineering details of the proposed project will be analyzed for compliance with Authority engineering standards including provisions for orderly growth. The final condition of approval will be a mutual agreement between the applicant and the Authority regarding the terms and conditions for providing sewer and/or water.

APPLICATION FEE: Sewer - \$100.00; Water - \$100.00 {Check should be made payable to the Deptford Township Municipal Utilities Authority}.

REVIEW FEE: Separate fees, calculated in the same manner, shall be paid for sewer and water. \$15.00 per Domestic Consumer Unit (DCU) for the first 100 units; \$10.00 per DCU for the next 100 units; \$7.00 per DCU for all DCU's in excess of 200 units. A review fee of \$2,000.00 shall be deposited for the first 5,000 square feet or any portion thereof and \$500.00 for each additional 5,000 square feet or part thereof for industrial or commercial units. Minimum amount to be placed in an escrow fund is \$2,500.00. Projects with pumping stations shall have additional review fees of 2% of the construction cost.

APPLICANT

NAME: _____ CONTACT PERSON: _____

ADDRESS: _____

TELEPHONE: _____ FAX: _____

PROJECT TO BE SERVICED

NAME: _____

ADDRESS: _____

ESTIMATE OF FLOW: _____ AREA OF ENTIRE TRACT: _____

PORTION TO BE SERVICED: _____ NUMBER OF LOTS: _____

TAX MAP PLATE NUMBER: _____ BLOCK: _____ LOT: _____

TYPE: SINGLE FAMILY DWELLINGS TOWNHOUSES APARTMENTS

CONDOMINIUMS

INDUSTRIAL SQ. FT.: _____ OTHER SQ. FT.: _____

COMMERCIAL SQ. FT.: _____ DESCRIBE: _____

PROFESSIONAL SQ. FT.: _____

1. DEVELOPMENT PLANS

CONSTRUCTION START DATE: _____ DURATION OF PROJECT: _____

2. PROFESSIONAL ENGINEER DESIGNING WATER/SEWER SYSTEM:

SIGNATURE: _____ (SEAL)

ADDRESS: _____

TELEPHONE: _____

DESCRIPTION OF PROPOSED SYSTEMS:

Department of Environmental Protection application for SEWER permits which shall include: three [3] bound booklets consisting of the following:

<input type="checkbox"/>	GCUA Application, Form #CON-94.
<input type="checkbox"/>	NJDEP TWA-1 Applications.
<input type="checkbox"/>	Notifications to Local Agencies.
<input type="checkbox"/>	Engineer's Report WQM-006 and Cost Estimates.
<input type="checkbox"/>	Specifications
<input type="checkbox"/>	Sets of Final Plans
<input type="checkbox"/>	WQM-003 Consent Form and Resolution
<input type="checkbox"/>	GCUA Dry Affidavit (if required).
<input type="checkbox"/>	USGS Map and Project Site Location.
<input type="checkbox"/>	GCUA Review Fee
Following endorsement by the GCUA, the project package will be submitted to the NJDEP.	

* Upon approval six (6) complete bound TWA packages to be submitted to the DTMUA for distribution as follows:

- DTMUA; Review Engineer; GCUA, NJDEP, Applicant

NJDEP Application for WATER Permit shall include:

- Three (3) copies each of: NJDEP application for water main extension
 Engineers Report Specifications and estimate of construction cost

* Upon approval Four (4) copies of each of the above NJSDWA shall be submitted to the DTMUA for distribution.

DATE PRINT NAME SIGNATURE OF APPLICANT

ACTION: Form B Resolution Agreement for public sewer and/or water will be issued to the Applicant.

DO NOT WRITE BELOW THIS LINE – FOR DTMUA USE ONLY

DATE APPLICATION RECEIVED: _____ AMOUNT OF CHECK (S): _____

SIGNATURE OF DTMUA: _____

ACTION BY AUTHORITY

AGREEMENT NEGOTIATED AND SENT TO APPLICANT: _____

SIGNED AGREEMENT RECEIVED BY DTMUA: _____



**THE DEPTFORD TOWNSHIP
MUNICIPAL UTILITIES AUTHORITY
P.O. BOX 5506, DEPTFORD, NEW JERSEY 08096
TEL: [856] 415-1111 FAX: [856] 415-0199**

FORM "B"

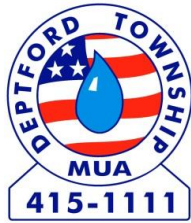
PROJECT: _____

PROJECT NO: _____

**DEPTFORD TOWNSHIP MUNICIPAL UTILITIES AUTHORITY
FORM "B" REQUIREMENTS – PRELIMINARY APPROVAL
[CHECK LIST]**

- Application complete and signed by Owner/Applicant/Engineer
- Payment of Fees and Review Escrow
- NJDEP Treatment Works Approval Application
- Copy of Township resolution for Preliminary subdivision/site plan approval
- NJDEP Bureau of Safe Drinking Water Approval Application
- All other permit applications, including wetlands, GCUA, State Road opening permits, and/or County road opening permits.
- For commercial buildings: calculations based on the plumbing code, number of fixture units that determine the required demand, size of water service, and size of sewer lateral.
- A current property survey signed by a New Jersey Licensed Land Surveyor
- Engineer's Report
- Specifications
- Complete sets of plans and details, including subdivision plan (3 sets)
- Grease trap sizing calculations, if applicable
- Preliminary legal descriptions and agreements for all easements to be dedicated to the Authority.

- After Plan Approval – A Resolution authorizing submittal to NJDEP. Also a mutual agreement between Applicant and Authority is to be prepared.
- Duration of approval is not to exceed to (2) years from date of receipt of NJDEP Permit.
- PDF copy of all plans and reports in original sizes



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FORM "C"

FORM "C" Application for construction of Public Sewer and/or Water, Recommendations and Conditions.

PURPOSE: To control the extent and schedule of planned sewer and/or water facility installations and to establish a schedule for Authority inspection of completed installations.

APPLICATION FEE: Sewer - \$100.00; Water - \$100.00 {Check should be made payable to the Deptford Township Municipal Utilities Authority}.

REVIEW ESCROW: \$2,000

INSPECTION ESCROW: 5% of total sewer & water construction costs or a minimum of \$2,500.00

APPLICANT

NAME: _____ CONTACT PERSON: _____

ADDRESS: _____

TELEPHONE: _____ FAX: _____

CONTRACTOR INFORMATION

NAME: _____ CONTACT PERSON: _____

ADDRESS: _____

TELEPHONE: _____ FAX: _____

PROJECT TO BE SERVICED

NAME: _____

LOCATION: _____

SECTION: _____ NUMBER OF LOTS: _____

DATE OF DTMUA FORM B APPROVAL: _____

DATE OF PLANNING BOARD FINAL APPROVAL: _____

PROFESSIONAL ENGINEER DESIGNING WATER/SEWER SYSTEM:

SIGNATURE: _____ (SEAL)

ADDRESS: _____

TELEPHONE: _____

CONNECTION FEES:

NUMBER OF WATER UNITS: _____ ESTIMATE OF FLOW: _____

WATER FEES: _____

NUMBER OF SEWER UNITS: _____ ESTIMATE OF FLOW: _____

SEWER FEES: _____

FORM "C"
Page Two

SUPPORTING DATA REQUIRED:

- (a) Engineer's Itemized Report on total sewer and/or water construction costs including fire hydrants: \$ _____.
- (b) Detailed plans, profiles and specifications of sewage pump stations, sewer and water mains, hydrants (as approved by the Fire Marshall) and appurtenances (plans shall indicate individual tax lots and blocks): Six (6) sets are required.
- (c) PDF copy of all plans and reports in original sizes
- (d) Performance Guarantee or Surety Documents: 120% (Minimum) of total sewer and water construction costs. 10% of the guarantee amount to be in cash or check and 90% of guarantee to be in the form of a bond or letter of credit.
- (e) Cash payment (to be escrowed) in the amount of 5% of total construction costs to insure payment of Form D – Inspection Fees until time of Authority acceptance of facilities.
- (f) Typed list coordinating individual tax lot and block with street address.
- (g) Proof that all easement documents have been recorded.

DURATION OF FORM "C" APPROVAL TO BE A MAXIMUM OF TWO (2) YEARS.

 DATE PRINT NAME SIGNATURE OF APPLICANT

DO NOT WRITE BELOW THIS LINE – FOR DTMUA USE ONLY

DATE APPLICATION RECEIVED: _____ AMOUNT OF CHECK (S): _____

VERIFICATION OF CONSTRUCTION COSTS BY AUTHORITY ENGINEER: _____

SIGNATURE OF DTMUA: _____ DATE: _____

ACTION BY AUTHORITY

FORM C SENT TO APPLICANT: _____

WATER NUMBER: _____ ISSUED: _____

SEWER NUMBER: _____ ISSUED: _____

CONNECTION FEE: _____ RECEIVED: _____



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FORM "C"

PROJECT: _____

PROJECT NO: _____

**DEPTFORD TOWNSHIP MUNICIPAL UTILITIES AUTHORITY
FORM "C" REQUIREMENTS – CONSTRUCTION APPROVAL
[CHECK LIST]**

- Application complete and signed by Owner/Applicant/Engineer
- Application, review, and connections fees and inspection escrow to be submitted
- NJDEP Treatment Works Approval TWA permit approval and GCUA approval
- Fire hydrant plan approved by letter from Fire Marshall
- NJDEP Bureau of Safe Drinking Water Approval permit approval
- Resolution from Township and County indicating final approval of project.
- Construction cost estimate in favor of the MUA
- Performance Bond – 120% of construction cost.
- All other permit approvals including wetlands, NJDOT road opening permits, County road opening permits, etc.
- All other permits to be secured by applicant
- Legal descriptions and agreements for all easements to be dedicated to the Authority. Agreements to state no fences to be constructed within easement.
- Type list coordinating tax lot and block with street address.
- Six (6) sets of complete final, including recorded subdivision, plans. Applicant will be returned two (2) sets.
- PDF copy of all plans and reports in original sizes
- Duration of Form "C" approval to be a maximum of two (2) years. Must start within six (6) months.



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FORM "C"

**AFTER FORM "C" CONSTRUCTION APPROVAL
[CHECK LIST]**

1. Contractor to prepare shop drawings
2. Preconstruction meeting and schedule request for fire hydrant meter for temporary water.
3. Sanitary sewer and lateral installation
4. Water main and service installation
5. Other utility construction
6. Base paving on roads
7. Testing of water and sewer
8. Sign off on DEP permit for partial operation of sanitary sewer
9. DTMUA signs off on Township construction permit for construction of dwellings
10. Request of bond reduction
11. As-builts of water and sewer in paper and CAD format.
12. Form "D" – dedication of water and sewer
13. Performance bond release when maintenance bond posted



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FORM "D"

FORM "D" Application for title transfer, Public Sewer and/or Water Systems.

APPLICATION FEE: Sewer - \$100.00; Water - \$100.00 {Check should be made payable to the Deptford Township Municipal Utilities Authority}.

REVIEW AND INSPECTION ESCROW: Escrow Fees were presented by applicant at time of submittal of Form C (which was escrowed) in the amount of 5% of the total sewer and/or water construction costs. Upon Authority acceptance of the system, the balance, if any, of the fee after legal and engineering vouchers have been deducted, will be returned to the applicant

APPLICANT

PROJECT NAME: _____

LOCATION: _____

SECTION: _____

SEWER AND WATER PERMIT NUMBER: _____ **ISSUED:** _____

TOTAL NUMBER OF LOTS IN SECTION: _____ **NUMBER COMPLETED:** _____

RESOLUTION INDICATING STREETS BEEN ACCEPTED BY THE TOWNSHIP? YES NO

HOW LONG HAS THE SYSTEM BEEN COMPLETED? _____

HAVE THE STREETS RECEIVED FINAL LAYER OF ASPHALT PAVING? YES NO

DOES THE AS-BUILT PLAN FOLLOW THE PLAN SUBMITTED WITH FORM C IN REGARD TO DETAILS AND AREA COVERED? YES NO **IF NOT, INDICATE SIGNIFICANT CHANGES:**

SUPPORTING DATA REQUIRED:

- (a) Two sets of As-Built plans (electronic CAD files & Mylar copies)
- (b) Maintenance Bond (15% of the Construction Cost) guaranteeing satisfactory performance of the system for a period of two years from date of acceptance.
- (c) All necessary documents approved by the Authority that will permit the dedication of all necessary property and easements that are an inherent and necessary part of the complete system.
- (d) Certification by the Applicant's Engineer as to the following:
 - 1). That the As-built plans are as herein described (see attached).
- (e) Proof of payment of all fees.
- (f) PDF copy of as-built plan(s) and easements, as applicable, in original size(s).

FORM "D"
Page Two

DATE PRINT NAME SIGNATURE OF ENGINEER

DATE PRINT NAME SIGNATURE OF APPLICANT

ACTION: Within 45 days after this form has been received at the Authority office, the Authority Engineer will conduct a final inspection. Upon his/her recommendation to accept the systems, the Authority Solicitor will have executed the transfer of the necessary deeds, easements and/or rights-of-way. The applicant will be notified that the Authority accepts the Maintenance Bond as of that date; release him/her from the Performance Bond and agrees to take responsibility for the system.

DO NOT WRITE BELOW THIS LINE – FOR DTMUA USE ONLY

DATE APPLICATION RECEIVED: _____ ESCROW BALANCE: _____
(PRESENTED AT SUBMITTAL OF FORM C)

SIGNATURE OF DTMUA: _____ DATE: _____

ACTION BY AUTHORITY

FINAL INSPECTION BY MUA ENGINEER: _____

RESULTS: _____

RECOMMENDED FOR ACCEPTANCE OF SYSTEMS: _____

LEGAL DOCUMENTS EXECUTED: _____

VOUCHERS PAID: ADMINISTRATION: \$100.00 SEWER PAID: _____ (TO REVENUE FUND)
 ADMINISTRATION: \$100.00 WATER PAID: _____ (TO REVENUE FUND)
 ENGINEERING REVIEW: \$ _____ PAID: _____
 LEGAL FEE: \$ _____ PAID: _____

BALANCE RETURNED TO APPLICANT: \$ _____



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FORM "E"

FORM "E" Application for connection of, an Individual Dwelling Unit into an existing Deptford Township Municipal Utilities Authority System.

PURPOSE: To determine and technical feasibility of connecting sewer lateral and/or water service to the Authority system and to verify that the systems will be constructed in compliance with the DTMUA Rates, Rules and Regulations.

Application for service connections will be accepted subject to there being existing mains in streets or right-of-way fronting the premises to be served.

FEES: APPLICATION: Sewer - \$50.00; Water - \$50.00
INSPECTION: Sewer - \$75.00; Water - \$75.00 Water (Inspection fee will be returned if connection into the MUA system is not feasible).
REVIEW: \$200.00 {To be paid at time of application, applicant is to be responsible for all excess professional fees}.

Bond or Letter of Credit

APPLICANT

NAME: _____

ADDRESS: _____

TELEPHONE: _____

SERVICE LOCATION

ADDRESS: _____

TAX MAP PLATE NUMBER: _____ BLOCK: _____ LOT: _____

REGISTERED PLUMBERS NAME: _____

TELEPHONE NUMBER: _____

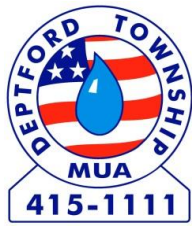
SUPPORTING DATA REQUIRED

TWO SETS OF PLANS PREPARED BY REGISTERED PLUMBER SHOWING THE PROPOSED LINE FROM THE DWELLING TO THE MUA MAIN. PLANS MUST INCLUDE ELEVATIONS.

DATE

PRINT NAME

SIGNATURE OF APPLICANT



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FORM "F"

FORM "F" Application for review of plans for Sewer and/or Water for Commercial/Industrial applications not requiring NJDEP permits. (Connection to existing Sewer and Water mains.)

PURPOSE: This application and supporting data specifying the engineering details of the proposed project will be analyzed for compliance with the Authority engineering standards including provisions for orderly growth. The final condition of approval will be a mutual agreement between the applicant and the Authority regarding the terms and conditions for providing water & sewer.

APPLICATION FEE: Sewer - \$100.00; Water - \$100.00 {Check should be made payable to the Deptford Township Municipal Utilities Authority}.

REVIEW AND INSPECTION ESCROW REVIEW: \$2,000.00 shall be deposited for the first 5,000 square feet or any portion thereof and \$500.00 for each additional 5,000 square feet or part thereof.

INSPECTION: 5% of construction costs or a minimum of \$2,500.00, as verified by Authority Engineer. In the event that the cost of review shall be more than deposited, the applicant shall pay the additional cost prior to final approval by the Authority.

Both checks shall be payable to the Deptford Township Municipal Utilities Authority.

APPLICANT

NAME: _____ CONTACT PERSON: _____

ADDRESS: _____

TELEPHONE: _____

PROJECT

NAME: _____

ADDRESS: _____

AREA OF ENTIRE TRACT: _____ PORTION TO BE SERVICED: _____

TAX MAP PLATE: _____ BLOCK: _____ LOT: _____

INDUSTRIAL SQUARE FOOTAGE: _____

COMMERCIAL SQUARE FOOTAGE: _____

NO. OF INDIVIDUAL STORES OR OFFICES: _____

PROPOSED USE FOR STORES OR OFFICES: _____

OTHER SQUARE FOOTAGE: _____

DESCRIBE: _____

DEVELOPMENT PLANS

Construction Date: _____ Duration of Project: _____

PROFESSIONAL ENGINEER DESIGNING WATER AND/OR SEWER SYSTEM

SIGNATURE: _____ (SEAL)

ADDRESS: _____

TELEPHONE: _____

REQUIRED SUPPORTING DATA

Three (3) sets of drawings, reports and other pertinent data describing details of the sanitary sewer system and water distribution system, including fire hydrants, private fire service and sprinkler systems must be submitted. If additional data is required after the initial review, the applicant will be contacted to submit same. A performance bond in the amount of 120% of the construction cost followed by a two (2) year Maintenance Bond will be required.

Estimated Rate of flow: _____

Building floor plans and plumbing plans are required to be submitted. Grease trap details and calculations are to be submitted.

Upon approval Six (6) sets of plans shall be submitted to the DTMUA for distribution

INDUSTRIAL WASTE AGREEMENT (IF REQUIRED:)

The undersigned being the _____ of the property
(owner, lessee, tenant, etc.)

located at _____

does hereby request a permit to _____ an industrial sewer
(install, use)

connection serving the _____, which company is
(name of company)

engaged in _____ at said location.

SUPPORTING DATA REQUIRED:

- (a) Plan of the property showing accurately all water, sewer and drains now existing is attached hereunto as Exhibit "A".
- (b) PDF copy of all plans and reports in original sizes.
- (c) A current property survey signed by a Licensed New Jersey Land Surveyor.
- (d) Plans and specifications covering any work proposed to be performed under this application are attached hereunto as Exhibit "B".
- (e) A complete schedule of all process water and industrial wastes produced or expected to be produced at said property, including a description of the character of each waste, the daily volume, maximum rates of discharge and representative analysis is attached hereunto as Exhibit "C".

DO NOT WRITE BELOW THIS LINE – FOR DTMUA USE ONLY

DATE APPLICATION RECEIVED: _____

APPLICATION CHECK: _____

INSPECTION CHECK: _____

REVIEW FEE REQUESTED: _____ RECEIVED: _____

SIGNED RESOLUTION RECEIVED BY THE DTMUA: _____

INSPECTION FEE REQUESTED _____ RECEIVED: _____

EXCESS REVIEW AND/OR INSPECTION FEES RETURNED TO APPLICANT

DATE: _____ AMOUNT: \$ _____

PERFORMANCE BOND NO: _____ AMOUNT: \$ _____

MAINTENANCE BOND NO: _____ AMOUNT: \$ _____

8.10 Chart I – Summary of Application Forms

FORM	REFERENCE	PURPOSE	SUPPORTING DATA	FEES
A	Feasibility Application	Determine economic & technical feasibility of extending water & sewer MUST be submitted prior to preliminary site plan or subdivision approval	Location plan of existing water/sewer systems Proposed system description	FILING FEES: \$50.00 SEWER \$50.00 WATER REVIEW ESCROW: \$600.00 SEWER \$600.00 WATER
B	Preliminary Approval Resolution will be drawn to cover terms of agreement between Developer & Authority	Determine compliance of planned system with engineering standards and orderly growth of sewer and water service MUST be submitted & approved prior to final site plan or subdivision approval by planning board	Engineer's Report Project Map, Plans & Specifications APPROVED plans may be used for State water & sewer permit submittals State water & sewer permits MUST be obtained prior to form "C" submission	FILING FEES: \$100.00 SEWER \$100.00 WATER REVIEW ESCROW: Fee is based on number of domestic consumer units MINIMUM AMOUNT \$2,500.00
C	Construction Approval Resolution will be prepared to cover this approval	Control, extent & schedule of planned construction (will be identical to final tract approval by Planning Board) MUST be completed and all performance bonds & inspection escrows posted prior to MUA Engineer's signing off on plans. Plans must be signed by MUA Engineer prior to the START of construction	Final plans MUST include approved fire hydrant locations. State Water/Sewer Permit Specified Performance Bond or Letter of Credit <u>120%</u> minimum. Escrow deposit to equal 5% of Bond for inspection Fees	FILING FEES: \$100.00 SEWER \$100.00 WATER REVIEW ESCROW: \$2,000.00 INSPECTION ESCROW: 5% of Construction Cost Minimum \$2,500.00

Chart I – Summary of Application Forms - continued

FORM	REFERENCE	PURPOSE	SUPPORTING DATA	FEES
D	Acceptance of System by Authority	Request the Authority to accept the installed systems (FINALIZATION OF PROJECT) Final inspection by MUA Engineer. All construction must be complete & a set of as-builts MUST be submitted to MUA Release or any remaining escrow after payment of final legal & engineering fees	As-built plans, Property documents, Certification of MUA & MUA Engineer as to the quality & content of the installed system Maintenance Bond (15% of Construction Cost)	FILING FEES: \$100.00 SEWER \$100.00 WATER REVIEW ESCROW: Balance of Legal & Engineering Costs
E	Individual Dwelling Unit	Determine feasibility of connecting into the existing water/sewer system in the street and compliance with MUA Rates, Rules & Regulations (SINGLE UNIT DWELLING ONLY) Form must be submitted & approved, and a connection permit obtained prior to obtaining a Building Permit	Three (3) sets of REGISTERED plumbing plans Bond or Letter of Credit	FILING FEES: WATER \$50.00 SEWER \$50.00 REVIEW FEE: Minimum \$200.00 INSPECTION ESCROW: \$75.00 SEWER \$75.00 WATER
F	Commercial/Industrial Applications (not requiring State Permits)	Determine compliance of commercial and industrial systems to Authority Rates, Rules & Regulations and their provision for orderly growth with existing MUA systems. Also to determine need for pre-treatment and/ or flow equalization & to provide data to be used for basis of agreement MUST be submitted and approved prior to final site plan approval, if applicable	Plans & specifications, showing offsite connection to MUA lines, plus onsite sewer, water & fire protection systems, incl. fire hydrants & Schedule of Processing Wastewater Performance Bonds & Escrows must be posted	FILING FEES: \$100.00 SEWER \$100.00 WATER REVIEW ESCROW: Minimum \$2,000.00 INSPECTION ESCROW: 5% of Construction Cost Minimum \$2,500.00

8.11 Chart II – Summary of Authority Action

DEPOSIT FUND	ACTION BY AUTHORITY	ISSUED TO:	TIMETABLE
Revenue A	<p>If feasible, notify applicant that plan is approved subject to letter of conditions and recommendation</p> <p>If not feasible, notify applicant of reasons plan cannot be approved</p> <p>If not feasible, Authority will not object to onsite sewer and/or portable water systems as approved by the Board of Health</p> <p>Rezoning: Send evaluation of conceptual design for sewer and water directly to Planning Board</p>	<p>Planning Board Applicant</p> <p>Planning Board Applicant</p> <p>Applicant Planning Board & Board of Health</p> <p>Planning Board Applicant Township Council</p>	45 days after submittal to MUA Office
Revenue Escrow B	Notify applicant that planned system is acceptable and is necessary; provide a list of conditions which will be signed by applicant regarding engineering requirements and connection fee terms and schedules. Inform applicant that he/she may file by sections for Form C within the next year.	Planning Board	70 days after submittal to MUA office
Revenue Escrow	Notify applicant of approval for construction to the extent requested.	Construction Official	70 days after submittal to MUA office & upon receipt of all fees and bond
Revenue Escrow D	Release Construction Cost Obtain Maintenance Bond: 15% Accept Title Operate and maintain system	Applicant Township Clerk	Upon final inspection & approval by engineer & transfer of all property right-of-way, easements, etc.
Revenue Escrow	If feasible, issue permit subject to State approval. If not feasible, issue approval for o-site or portable water systems and return inspection fee.	Applicant Board of Health Construction Official	70 days after submittal to MUA office
Revenue Escrow C	Notify applicant of approval to construct contingent upon receipt of connection fees and State permit. Draw up and execute agreement if required.	Applicant Construction Official	70 days after submittal to MUA office

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PERFORMANCE SURETY BOND
Bond No. _____

Block: Lot:

We, _____ (name of applicant)

having offices at _____
(physical address of applicant/principal)

as principal and _____ (name of surety)

having offices at _____
(physical address of surety)

a corporation duly licensed to transact a surety business in the State of New Jersey, as surety, are indebted to the Deptford Township Municipal Utilities Authority in the County of Gloucester, Township of Deptford, obligee, in the sum of _____, \$ _____ for which payment we bind ourselves and our respective heirs, legal representatives, successors, and assigns, jointly and severally.

On _____ (date), Authority Resolution No. _____

principal was granted approval by the Deptford Township Municipal Utilities Authority for:

_____ (name of project)

for: _____
(form of project; i.e. water main or sewer main or asphalt or concrete, etc.)

The cost estimate by the Deptford Township Municipal Utilities Authority engineer of the cost of this work and the resolution of approval are attached hereto and made a part hereof.

Pursuant to Deptford Township Municipal Utilities Authority Rates, Rules and Regulations 8.6.3, 8.9 and municipal ordinance, adopted under authority of the Municipal Land Use Law (N.J.S.A. 40:55D-1 et seq.), the principal hereby furnishes a performance surety bond, in the amount of: \$ _____

_____ (amount in dollars)

(not to exceed 120 percent (120%) of the cost of the improvements, as certified by the Authority engineer)(ninety percent (90%) of the performance guarantee may be in the form of bond/letter of credit and the remaining ten percent (10%) may be in the form of cash/check deposited into an escrow account set up by the Deptford Township Municipal Utilities Authority), written by _____ (name of surety) a surety licensed in

the State of New Jersey, guarantying full and faithful completion of improvements approved by the approving authority, in lieu of completing the required improvements prior to the granting of final approval.

This Performance Bond shall remain in full force and effect until such time as all improvements covered by the bond have been approved or accepted by resolution of the Deptford Township Municipal Utilities Authority, except that in those instances where some of the improvements are approved or accepted by resolution of the Deptford Township Municipal Utilities Authority upon certification by the Deptford Township Municipal Utilities Authority engineer, partial release from the bond shall be granted in accordance with N.J.S.A. 40:55D-53. The amount of the bond remaining shall be sufficient to secure provision of the improvements not yet approved; provided, however, that the Deptford Township Municipal Utilities Authority may require that a maintenance bond be retained to ensure completion of all improvements.

This bond shall remain in full force and effect until released by resolution of the Deptford Township Municipal Utilities Authority.

This bond is issued subject to the following expressed conditions:

1. This Performance Bond shall not be subject to cancellation either by the principal or by the surety for any reason until such time as all improvements subject to the bond have been accepted by the Deptford Township Municipal Utilities Authority, in accordance with the applicable provisions of the Municipal Land Use Law.
2. This Performance Bond shall be deemed to be continuous in form and shall remain in full force and effect until the improvements are accepted by the Deptford Township Municipal Utilities Authority and the bond is released, or until default is declared, or until the bond is replaced by another bond meeting applicable legal requirements. Upon approval or acceptance of all improvements by the Deptford Township Municipal Utilities Authority, or upon replacement of this bond by another bond, liability under this bond shall cease. Upon approval or acceptance of some, but not all, of the required improvements by the Deptford Township Municipal Utilities Authority, partial release from the bond shall be granted in accordance with N.J.S.A. 40:55D-53; provided, however, that the portion of the bond amount sufficient to secure completion of the improvements shall continue in effect and the Deptford Township Municipal Utilities Authority may retain a maintenance bond in order to ensure such completion.
3. The aggregate liability of the surety shall not exceed the sum set forth above.
4. In the event that the improvements subject to this bond are not completed within the time allowed under the conditions of the final approval issued pursuant to the Municipal Land Use Law, including such extensions as may be allowed by the approving authority, the Deptford Township Municipal Utilities Authority may, at its option, and upon at least 30 days prior written notice to the principal and to the surety by personal delivery or by certified or registered mail or courier, declare the principal to be in default and, in the event that the surety fails or refuses to complete the work in accordance with the terms and conditions of the original approval, claim payment under this bond for the cost of completion of the work. In the event that any action is brought against the principal under this bond, written notice of such action shall be given to the surety by the Deptford Township Municipal Utilities Authority by personal delivery or by registered or certified mail or courier at the same time.
5. The surety shall have the right to complete the work in accordance with the terms and

conditions of the original approval, either with its own employees or in conjunction with the principal or another contractor; provided, however, that the surety, in its sole discretion, may make a monetary settlement with the Deptford Township Municipal Utilities Authority as an alternative to completing the work.

6. In the event that the principal and the approving authority agree to changes in the scope of work, the obligations of the surety under this bond shall not be affected so long as the cost of the work does not exceed 120 percent of the Deptford Township Municipal Utilities Authority engineer's certified estimate, attached hereto and made a part hereof, which 120 percent of the estimate shall be the limit of the surety's obligation under this bond in any case. If the cost of the work exceeds 120 percent of the certified estimate, the principal shall secure a rider from a surety for the additional amount; provided, however, that this provision shall not be construed as requiring a surety to provide additional coverage.

7. This bond shall inure to the benefit of the Deptford Township Municipal Utilities Authority only and no other party shall acquire any rights hereunder.

8. In the event that this bond shall for any reason cease to be effective prior to the approval or acceptance of all improvements, a cease and desist order may be issued by the governing body, in which case all work shall stop until such time as a replacement guarantee acceptable to the approving authority becomes effective.

Signature:

(date)

(surety - authorized signature and title)

(surety - printed name and title)

Witness/Attest:

(date)

(authorized signature and title)

Signature:

(date)

(principal - authorized signature and title)

(principal - printed name and title)

Witness/Attest:

(date)

(authorized signature and title)

1. This guarantee shall not be subject to cancellation either by the principal or by the surety for any reason until the end of the period for which it is required to be maintained.
2. The aggregate liability of the surety under this guarantee shall not exceed the sum set forth above.
3. In the event that the improvements subject to this guarantee exhibit any defects in functioning, materials or quality of work, the Deptford Township Municipal Utilities Authority may, at its option, and upon at least 30 days prior written notice to the principal and to the surety by personal delivery or by certified or registered mail or courier, declare the principal to be in default and, in the event that the surety fails or refuses to perform the necessary corrective work, claim payment under this guarantee for the cost of any work required for the proper correction of any such defects in the said improvements. In the event that any action is brought against the principal under this guarantee, written notice of such action shall be given to the surety by the Deptford Township Municipal Utilities Authority by personal delivery or by registered or certified mail or courier at the same time.
4. The surety shall have the right to repair any defects in functioning, material or quality of work and, to that end, to do such corrective work as may be necessary in accordance with the terms and conditions of the original approval, either with its own employees or in conjunction with the principal or another contractor; provided, however, that as an alternative to performing such maintenance or corrective work it may, in its sole discretion, make a monetary settlement with the Deptford Township Municipal Utilities Authority.
5. This guarantee shall inure to the benefit of the Deptford Township Municipal Utilities Authority only and no other party shall acquire any rights hereunder

Signature:

(date)

(surety - authorized signature and title)

Witness/Attest:

(surety - printed name and title)

(date)

(authorized signature and title)

Signature:

(date)

(principal - authorized signature and title)

Witness/Attest:

(principal - printed name and title)

(date)

(authorized signature and title)

**IRREVOCABLE STANDBY LETTER OF CREDIT
(PERFORMANCE)**

Block: _____ Lot: _____

Issued by:

Name of Banking Institution: _____

Address: _____

City/State/ZIP: _____

Telephone: _____ Fax: _____

Issue date: _____

Expiration date and time: _____

Letter of Credit Number: _____

Beneficiary:

Name: Deptford Township Municipal Utilities Authority

Address: 898 Cattell Road

City/State/ZIP: Wenonah, New Jersey 08090

Telephone: 856-415-1111 Fax: 856-415-0199

Applicant:

Name: _____

Address: _____

City/State/ZIP: _____

Telephone: _____ Fax: _____

Amount: _____

Dollars \$ _____

(Not to exceed 120 percent of the cost of the improvements, as certified by the Authority Engineer)

We hereby issue our irrevocable standby letter of credit in your favor, which is available by your draft at sight bearing our letter of credit number on _____ (name of banking institution).

Your draft must be presented at the office indicated above by personal delivery or by registered or certified mail or courier and must be accompanied by (1) the original standby letter of credit and any subsequent original amendments and (2) an original statement purportedly signed by the Authority Engineer of Deptford Township Municipal Utilities Authority stating: "The amount of this drawing under Irrevocable Standby Letter of Credit No. _____, issued _____ by _____ (name of banking institution), represents the amount due us as a result of the failure of _____ (name of applicant) to complete, in whole or in part, the required site improvements as detailed in the Authority resolution of approval and in that certain Engineer's Estimate entitled _____"

prepared by _____ and dated _____. I hereby certify that notice of the incompleteness upon which this drawing is based was given to the Applicant by registered or certified mail or by courier on _____ (date at least 30 days prior to the date of the Authority Engineer's Statement)." This certification shall be accompanied by a resolution of the Authority governing body endorsing the findings of the Authority Engineer and stating that the improvements have not been approved or accepted.

This Letter of Credit shall be deemed to be automatically extended annually for periods of one year unless written notice is given by the banking institution by registered or certified mail or by courier to the Applicant and the Authority at least 60 days prior to the then-current expiration date.

In the event of the failure of the applicant to furnish another Letter of Credit meeting the requirements of N.J.S.A. 40:55D-53.5 and N.J.A.C. 5:39-1.3, or other acceptable security, at least 30 days prior to the expiration date of this Letter of Credit, the Authority may, to the extent allowed by law, draw upon this Letter of Credit to pay the cost of any incompleteness or deficiencies.

This Letter of Credit shall expire upon approval or acceptance by resolution of the Authority governing body of all improvements cited in the aforesaid Engineer's Estimate or upon replacement of this Letter of Credit by other security meeting applicable legal requirements. Upon approval or acceptance of some, but not all, of said improvements, a reduction in the amount of this Letter of Credit shall be granted in accordance with N.J.S.A. 40:55D-53, provided that the remaining amount shall be sufficient to secure provision of the improvements not yet approved and that the Authority may require that the remaining amount be 30 percent of the original amount.

All correspondence to the banking institution concerning this Letter of Credit shall be addressed to the office indicated above.

This Letter of Credit shall inure to the benefit of the beneficiary Authority only and no other party shall acquire any rights hereunder.

This letter of credit is subject to [Uniform Customs and Practice for Documentary Credits (1993 Revision), International Chamber of Commerce Publication No. 500] [International Standby Practices 1998 (ISP98)]. (Note: Either shall be acceptable.)

We hereby agree with you that drawings under and in compliance with the terms of this Letter of Credit shall be duly honored upon presentation to us.

Signature:

(date)

(authorized signature and title)

(printed name and title)

Witness/Attest:

(date)

(authorized signature and title)

**IRREVOCABLE STANDBY LETTER OF CREDIT
(MAINTENANCE)**

Block: Lot:

Issued by:

Name of Banking Institution: _____

Address: _____

City/State/ZIP: _____

Telephone: _____ Fax: _____

Issue date: _____

Expiration date and time: _____

Letter of Credit Number: _____

Beneficiary:

Name: Deptford Township Municipal Utilities Authority

Address: 898 Cattell Road

City/State/ZIP: Wenonah, New Jersey 08090

Telephone: 856-415-1111 Fax: 856-415-0199

Applicant:

Name: _____

Address: _____

City/State/ZIP: _____

Telephone: _____ Fax: _____

Amount: _____

Dollars \$: _____

(Not to exceed 120 percent of the cost of the improvements, as certified by the Authority Engineer)

We hereby issue our irrevocable standby letter of credit in your favor, which is available by your draft at sight bearing our letter of credit number on _____.
(name of banking institution).

Your draft must be presented at the office indicated above by personal delivery or by registered or certified mail or courier and must be accompanied by (1) the original standby letter of credit and any subsequent original amendments and (2) an original statement purportedly signed by the Authority Engineer of Deptford Township Municipal Utilities Authority stating: "The amount of this drawing under Irrevocable Standby Letter of Credit No. _____, issued _____ by _____ (name of banking institution), represents the amount due us as a result of the failure of _____ (name of applicant)

to maintain free of defects the required site improvements as detailed in the Deptford Township Municipal Utilities Authority resolution of approval and in that certain Engineer's Estimate entitled

_____ prepared by _____ and dated _____.

I hereby certify that notice of the incompletions upon which this drawing is based was given to the Applicant by registered or certified mail or by courier on _____ (date at least 30 days prior to the date of the Deptford Township Municipal Utilities Authority Engineer's statement). This certification shall be accompanied by a resolution of the Deptford Township Municipal Utilities Authority endorsing the engineer's findings and shall state that the improvements have not been approved or accepted.

This Letter of Credit shall continue in effect until the expiration date and shall be deemed to be automatically extended for a further period _____ (not to exceed one year) unless written notice is given by the banking institution by registered or certified mail or by courier to the Applicant and the Authority at least 60 days prior to the then current expiration date.

In the event of the failure of the Applicant to furnish another Letter of Credit meeting the requirements of N.J.S.A. 40:55D-53.5 and N.J.A.C. 5:39-1.4, or other security meeting applicable legal requirements, at least 30 days prior to the expiration date of this Letter of Credit, the Authority may draw upon this Letter of Credit, to the extent allowed by law.

All correspondence to the banking institution concerning this Letter of Credit shall be addressed to the office indicated above.

This Letter of Credit shall inure to the benefit of the beneficiary Authority only and no other party shall acquire any rights hereunder.

This Letter of Credit is subject to [Uniform Customs and Practice for Documentary Credits (1993 Revision), International Chamber of Commerce Publication No. 500] [International Standby Practices 1998 (ISP98)]. (Note: either shall be acceptable.)

We hereby agree with you that drawings under and in compliance with the terms of this Letter of Credit shall be duly honored upon presentation to us.

Signature:

(date)

(authorized signature and title)

(printed name and title)

Witness/Attest:

(date)

(authorized signature and title)

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Section 9 Connections and Service Lines: Water

9.1 Authority Service Line

New connections, as approved by the Authority, to the existing water mains, shall be at the sole expense of the applicant, including taps, fittings, pipe, labor and related materials. In addition, it shall be the responsibility of the applicant to obtain the necessary permits and to restore the sidewalk and/or street paving. The applicant shall pay a connection charge for each connection as stated under these Rates, Rules and Regulations. Upon inspection and approval of the installation by a representative of the Authority and the Township Plumbing Sub-code Official, the new connection and lateral from the main to, and including the curb stop, shall become the property of the Authority and shall be maintained by them. Unrestricted access shall be provided to the Authority. Any landscaping, hardscaping, etc. in the immediate vicinity of the curb stop water box shall be restored by the property owner in the event the Authority excavates or disturbs the area for necessary repairs to the water service.

9.2 Size and Kind of Service Line

The Authority reserves the right to determine the size and kind of service line from the main to the curb stop, and from the curb stop to the property to be serviced. The curb stop shall be placed two (2) feet inside the curb line. Type K copper, flared shall be used throughout for services up to and including one (1) inch in diameter. For 1 ½" to 2" services, copper or copper sized black poly pipe with S.S. inserts with Mueller compression fittings to be used. For larger services, ductile iron cement lined pipe meeting AWWA Standards for Class 52 water pipe, shall be used. The minimum service size shall be ¾". Copper tracing wire shall be installed with all non-metallic service lines. The pipe from the curb stop, to the property, shall be laid in a straight line at right angles to the curb line, within the building limits of the structure to be served, and shall be at least four (4) feet below the surface of the ground, when final grading of the property has been completed. Applicants shall comply with the MUA construction requirement's specifications.

9.3 Separate Trench

No service pipe shall be laid in the same trench with gas pipe, drain sewer pipe, or any other facility of any public service company, nor within three (3) feet of any open excavation, vault, cesspool or septic tank; nor shall the location be in conflict with any sidewalk or driveway or be subject to vehicular traffic. Plans shall be noted as follows "Service shall not be located in any area such as sidewalks, driveways or be subject to vehicular traffic". All services shall comply with the Rates, Rules and Regulations of the Deptford Township Municipal Utilities Authority. Water and Sewer laterals shall be separated by a minimum distance of five (5) feet whenever possible. In no case shall the separation be less than the Minimum requirements of the plumbing sub code adopted by the Township of Deptford.

9.4 Maintenance by Customer

All connections, service lines, and fixtures owned by the customer, shall be maintained by the customer in good order. Meters furnished and owned by the Authority and on the property of the customer, shall be protected properly and cared for by the customer. All leaks in the service, including valves on either side of the meter, and any other pipe and any fixture in or upon the premises must be immediately repaired by the owner or occupant of the premises. The customer shall be responsible for notifying the Authority of the party engaged by said customer to do any maintenance work on the customers' service line, prior to 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 work that is acceptable. Any leak found on the property owner's premises must be repaired within three (3) days of customer notification. If the leak is not repaired within the three (3) day period the Authority shall terminate the water service at the curb stop.

9.5 Authority Not Responsible

The Authority shall in no event be responsible for maintaining any portion of the service line owned by the customer, or for damage done by water escaping there from; or from lines or fixtures on the customers property; and the customer shall at all times comply with applicable regulations with respect thereto, and make changes therein, required by reason of change or grade, relocation of mains or otherwise. The Authority shall in no event be responsible for any damage to old, leaking or damaged pipes or valves on the property that may leak or break while changing a water meter due to negligence or lack of maintenance or repair on the owner's part.

9.6 Replacement/Repair of Existing Service Lines

Where the replacement/repair of the service line from the main to the curb stop, or meter pit, is found to be necessary, the Authority will renew the same sized service in the same location as previously used.

9.7 Property Supplied by Single Service

A service line from the curb stop, to a property shall not supply more than one dwelling, as generally described and classified below, but any such dwelling, upon proper application of the owner, may be supplied by two or more meters, each of which, for billing purposes, shall be considered as being one customer account, and provided that the supply to each such meter has an individual control at or near the curb, via:

- (a) A dwelling house; either detached, or one side of a double house, or a house in a row of houses; provided that a garage, a conservatory and similar structures accessory to the life of one family shall be considered as a portion of the dwelling.
- (b) An industrial, or commercial, or manufacturing establishment.
- (c) A building separated from adjacent buildings by a party wall or party walls, and

comprising apartments or stores or offices, or any combination thereof.

- (d) A detached building comprising apartments or stores or offices, or any combination thereof.

9.8 Single Service Line with Two or More Customers

Where two or more customers are now supplied through a single service line and any violation of the Rates, Rules and Regulations of the Authority occurs with respect to either or any of said customers, it shall be deemed a violation as to all, and unless said violation is corrected after reasonable notice, the Authority may take such action as can be taken for a single customer, except that such action will not be taken until a customer who has not violated the Authority's rules has been given a reasonable opportunity to attach their pipe to a separately controlled service connection. All new installations shall be single service lines.

9.9 Fire Protection Sprinkling Systems

No request for permission to tap into the Authority water distribution system for purposes of installing a fire protection sprinkling system will be reviewed by the Authority until the applicant submits a street opening permit on Township, County, or State owned streets or a written permission from the builder on privately owned streets not yet acquired by the municipal government.

9.9.1 Fee

An inspection fee shall be submitted with the application. A deposit shall also be submitted by the applicant prior to any Authority approval. The deposit shall be held at the Authority office and shall be returned to the contractor upon the inspection and approval of the installation by the Authority Superintendent.

9.9.2 Technical Requirements

- (a) Fire protection sprinkler system shall have a backflow prevention and be protected by a detector check valve assembly.
- (b) Main tap shall be inspected for workmanship and leakage by the Authority Superintendent or his/her representative prior to backfilling.
- (c) All taps shall be made during the hours of 7:30 to 12:00 noon.

9.10 Irrigation Systems

Lawn irrigation systems for residential use must be supplied by existing dwelling service. Commercial accounts, whereas sewer charges are based on water use, shall connect in front of the domestic meter establishing a separate meter and water only account or a meter may be installed on the irrigation line after the domestic meter, thus creating a deduct method, whereas the amount of water that passes through this meter will be deducted from the domestic meter reading.

9.10.1 Fee

An inspection fee shall be submitted with the application. A deposit shall also be submitted by the applicant prior to any Authority approval. The deposit shall be held at the Authority office and shall be returned to the contractor upon the inspection and approval of the installation by the Authority Superintendent.

9.10.2 Technical Requirements

- (a) Sprinkler system shall have approved reduced pressure zone backflow prevention.
- (b) Meter shall be of the type approved by the Authority.

Section 10 Connections and Service Lines: Sewer

10.1 Authority Service Line

New connections to existing sewer mains will be at the expense of the applicant, including tapping (if approved by the Authority), fittings, pipe, labor and related materials. Such new connections and laterals will become the property of the Authority to the curb line, except when the sewer main is located in the sidewalk area then the Authority's ownership shall extend to the right-of-way line. The Authority will maintain such new connection and new laterals from the sewer main to the curb line or property line (depending on the location of the sewer main) after installation, inspection and approval by a representative of the Authority together with the Township Plumbing Sub-Code Official. Applicant will be fully responsible for street permits, excavation, restoration and the complete cost thereof.

10.2 Size and Kind of Service Lateral

The Authority reserves the right to determine the size and kind of the service lateral from the main to the vicinity of the curb line, from the vicinity of the curb line to the property to be served, or from the main in the right-of-way, to the property to be served. Laterals of all sizes shall be constructed of SDR 35 PVC pipe, epoxy lined ductile iron pipe, or other piping material specifically approved by the Authority. A sketch showing the service lateral installation is included on page 21-6. The service lateral from the curb to the property line including the sewer clean-out shall be furnished, installed and maintained by the owner of the property. A size four inch (4") lateral shall be laid at a minimum grade of 1/4" per foot and in a straight line and at a right angle to the main from the point of connection to the main, where the main is in a right-of-way, or from the end of the Authority constructed service lateral, to the structure to be served shall be a minimum of three (3) feet below the surface of the ground when final grading of the property has been completed. That portion of the service lateral and sewer clean-out installed and maintained by the owner shall be installed in accordance with the Township Plumbing Code, shall be inspected and approved by the Township Plumbing Sub-Code Official prior to backfilling the trench. Any construction not approved shall be immediately removed and reconstructed in an approved manner.

10.3 Service Lateral Placement

No service lateral shall be laid in the same trench with any gas pipe, water service, or any other facility of any public utility 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 or subject to any vehicular traffic. Plans shall be noted as follows "Sanitary lateral shall not be located in any area such as sidewalks, driveways, or be subject to vehicular traffic." All laterals shall be installed within the limits of the customer's property and be a minimum of three (3) feet from any property line(s). Any landscaping, hardscaping, etc. in the immediate vicinity of the curb sewer cleanout shall be restored by the property owner in the event the Authority excavates or disturbs the area for necessary repairs to the sewer lateral.

10.4 Elevation of Sanitary Fixtures

Under no circumstances shall sanitary fixtures be installed in a building at an elevation lower than the front curb elevation or street centerline elevation whichever is higher unless special precautions are incorporated into the new fixture installation to prevent surcharging of the fixture from the sanitary sewer main because of high flows or a blockage. Prior to installation of any new fixture which may be lower than the elevation heretofore specified the owner shall obtain the approval of the Township Plumbing Sub-Code Official on the type of precautions that will be taken to eliminate the potential flooding of premises with sewage. In the event a fixture is found to be installed at any point lower than heretofore specified, the Authority may revoke the sewer connection permit or discontinue service until the fixture is removed or positive control measures are instituted to eliminate any potential surcharging of the building with sewage.

10.5 Maintenance and Ownership by Customer

All connections, service laterals and sewer clean-outs above and below grade, lids and fixtures furnished by the customer, shall be maintained by them in good order, and all piping and connections furnished and owned by the Authority and on the property of the customer, shall be protected properly and cared for by the customer. All leaks in the service lateral or any other pipe or fixture in or upon the premises served, must be repaired immediately by the owner or occupant of the premises. The customer shall be responsible for notifying the Authority of the party engaged by said customer to do any maintenance work in the customer's service lateral, prior to 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 lateral backfilled before inspection shall be excavated and inspected within ten (10) calendar days. Failure to make the lateral accessible for inspection in the prescribed time will result in the termination of water service until such inspection can be made. Any work not acceptable shall be immediately removed and replaced by work which is acceptable. The customer is responsible for keeping their clean-outs accessible. Any landscaping, hardscaping, etc. in the immediate vicinity of the sewer cleanout shall be restored by the property owner in the event the Authority excavates or disturbs the area for necessary repairs to the sewer lateral.

10.6 Responsibility of Authority

The Authority shall in no way be responsible for maintaining any portion of the service lateral owned by the customer, or for damage done by sewage escaping there from; or for lines or fixtures on the customer's property; and the customer shall at all times comply with applicable municipal regulations with respect thereto, and make changes therein, required by reason of changes of grade, relocation of mains or otherwise. In the event a clean out cover cannot be removed, Authority personnel will request permission from the owner to break the cover to gain access. The owner shall be responsible to replace the cover. The Authority is not responsible for damages for any reason as a result of fixtures below the front curb elevation. The Authority assumes responsibility from the front curb line to the sewer

main when the sewer main is located in a public street. In areas where the sewer main is not located in a public street the customer is responsible for all portions of the lateral.

10.7 Prohibited Connections

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

- (a) Sump Pumps
- (b) Foundation under drains
- (c) Floor drain (unless appropriate oil separator is installed and approved by the plumbing code), area drain, yard drain, driveway drain, or drain from swimming pools
- (d) Rain conductor or downspout
- (e) Grease pit
- (f) Air conditioning equipment, except condensation which will be permitted under conditions approved by the Authority
- (g) Storm water inlets or catch basins
- (h) Drains from pieces of equipment or manufacturing process, except when specifically authorized under the provisions of these Rates, Rules and Regulations.
- (i) Storm water of any kind is not permitted to be discharged into any sanitary sewer.
- (j) Swimming pool backwash wastewater.

10.8 Special Connections

Service laterals to public buildings churches, apartment houses, commercial establishments, and industrial establishments, shall be installed to conform to detailed plans and specifications approved by the Authority Engineer.

10.9 Special Precautions in Wet Ground

Where ground water is normally above the invert elevation of the service lateral, - epoxy lined ductile iron pipe, with rubber "O"- Ring joints, shall be used in construction of the size four (4") inch service laterals. Where the trench bottom is soft and yielding, the Authority Engineer reserves the right to require that the service be epoxy lined ductile iron pipe laid in partial or total concrete encasement. Junctions of two different types of pipe, may, at the option of the Authority Engineer be required to be encased in concrete of mix determined by the Authority Engineer.

10.10 Property Served by Single Service Lateral

A service lateral from the vicinity of the curb, or the main in a right-of-way to a property, shall not serve more than one property but any such property upon proper application of the owner may be served by two or more service laterals, each of which, for billing purposes, shall be considered as being one customer account.

10.11 Single Service Lateral with Two or More Customers

Where two or more customers are now served through a single service lateral, any violation of the Rates, Rules and Regulations of the Authority, with respect to either or any of said customers, shall be deemed a violation as to all, and unless said violation is corrected after reasonable notice, the Authority may take such action as may be taken for a single customer, except that such action will not be taken until a customer who has not violated the Authority's Rates, Rules and Regulations has been given a reasonable opportunity to connect his/her pipe to a separately controlled service lateral.

10.12 Policy on Blockages

While the Authority has no responsibility beyond the curb line, it will, as a public service, clear the curb clean-out at the request of the customer on his/her initial request. The Authority will also verify that the portion of the service line between the curb and main is clear and, when necessary, take action to clear that section of the line. If the customer has no curb clean-out, any blockage in the service line between the dwelling and the main shall be considered the responsibility of the customer. However, if after the blockage is cleared, the problem is found and documented, by a licensed plumber, to be between the curb and main the Authority, at its discretion, will install a sewer clean-out as an access point. Until the Authority installs said clean-out, any emergencies will remain the responsibility of the homeowner. After the clean-out is installed the Authority will assume ownership of the portion of the lateral from the curb to the main and the clean-out will become the property of the homeowner.

10.13 Policy on Missing or Damaged Curb Clean-Out Caps

When the Authority inspection indicates that a sewer cap is missing or damaged, the customer will be notified that the cap must be repaired or replaced within seven (7) days. The Authority may replace or repair the clean-out cap and the customer will be charged for parts and service if the problem is not resolved by the customer.

10.14 Unauthorized Connection

No unauthorized person(s) shall uncover, make any connections with or opening into, use, alter, or disturb any public sewer, service lateral or appurtenance thereof without first obtaining a written permit from the Authority.

10.15 Construction Safeguards

All excavations for service lateral installation shall be adequately guarded with barricades and lights so as to protect the public from hazard. Streets, sidewalks, parkways, and other public property disturbed in the course of the work shall be restored in a manner satisfactory to the Township of Deptford.

Section 11 Water Meters

11.1 All Water Services shall be metered

Each water service from curb stop, or meter pit, to a property shall be metered. The Authority reserves the right to determine the size and location of the meter.

11.2 Service Fee

All residential meters and electronic reading devices (ERT's) will be furnished by the Authority upon payment of a fee equivalent to the cost of the meter and ERT. Residential meters and ERT's shall be installed by the Authority and shall remain accessible at all times. Industrial/Commercial meters and ERT's shall be purchased by the customer per Authority requirements and inspected by Authority personnel after installation by the customer. Industrial/Commercial meters will remain the property of the customer and shall be accessible at all times.

11.3 Location

After the applicant has provided space for the meter, which will be readily accessible and will provide proper protection for the meter, and has had the plumbing arranged to receive the meter at an unobstructed convenient point approved by the Authority and so positioned as to meter and control the entire supply, the Authority will have the meter set. In cases where it is not practical to place the meter within a building (as determined by the Authority), a brick, concrete or other approved meter box or pit, fitted with a suitable and approved type of iron cover, shall be built inside the property line by the customer. The size and dimensions of the pit or box shall be approved by the Authority, provide adequate access to the meter and permit its ready installation or removal. Meter pits shall not be approved for individual residences, including townhouses and apartments. Meters shall be capable of being read by the current system in use by the Authority. Meters shall not be located in any space where damage is likely to occur due to freezing, hot water, unsuitable atmospheric conditions, or any other external causes.

No meter shall be installed in a crawl space or behind any appliance. Meter shall be installed no higher than four (4) feet in a horizontal position. Refer to Water/Sewer Connection Specifications for details on meter reading devices.

11.4 Valves Required

A gate valve or lever operated ball valve, shall be placed by the customer on the inlet side of the service line directly ahead of the meter, and on the outlet side after the meter. When required by the Authority, a suitable and approved check valve should be placed by the customer, between the inlet valve and the meter. When a check valve is installed, a safety valve or expansion tank should be inserted at some convenient point in the house piping, to relieve excess pressure due to heating water.

11.5 Responsibility for Damage

Meters 5/8" and 5/8" x 3/4" will be maintained by the Authority so far as ordinary wear and tear are concerned; but damage resulting from freezing, hot water, unsuitable atmospheric conditions, or external causes due to the negligence of the customer, shall be paid for by the customer. All meters larger than 3/4" shall be the owner responsibility to maintain, repair and replace.

11.6 Cost of Reinstallation

The customer shall pay a charge for the installation or changing of a meter and appurtenances when removed because of damage in any way due to the negligence of the customer. The charges shall be as listed in Section 20 Fee Schedule.

11.7 Minimum Charge

Each meter is installed subjected to a fixed minimum monthly charge in accordance with the adopted rate schedule, for which certain quantities of water will be furnished without additional charge. Such minimum charge shall be non-refundable for nonusers of water, and non-cumulative against subsequent consumption.

11.8 Authority to be Notified When Meter Not Working

The customer shall immediately notify the Authority if a meter is damaged or not working, as soon as it is known by the customer.

11.9 Registration Conclusive

The quantity recorded by the meter shall be conclusive on both the customer and the Authority, except when the meter has been found to be registered inaccurately or has ceased to register. In such cases, the quantity may be determined by the average registration of the meter when in proper working order.

11.10 Water Meter Testing Schedule

All water meters in the Authority system shall be tested in accordance with the following schedule:

Size	Frequency Years
5/8"	15
3/4" x 5/8"	15
3/4"	15
1"	12
1 1/2" & larger	10

All sized meters will need to be re-tested every 5 years thereafter

The owners of these meters shall then supply the test results together with an Affidavit from the testing company within sixty (60) days from the date notification is given by the Authority to conduct a meter test. In the event that the owner fails to comply with this requirement, the Authority has the right to have the meter tested and charge the owner for the cost of such test, plus a ten percent (10%) surcharge for the administrative expenses of the Authority in completing such testing. Interest on such charge shall run from the date of the Authority's payment of any testing cost, such interest to run to the date of payment by owner.

11.11 Industrial/Commercial Water Meters

The owners of all industrial water meters in the Authority system shall have those meters tested by a qualified meter testing company at an interval determined by the Authority. The owners of these meters shall then supply the test results together with an Affidavit from the testing company within sixty (60) days from the date notification is given by the Authority to conduct a meter test. In the event that the owner fails to comply with this requirement, the Authority has the right to have the meter tested and charge the owner for the cost of such test, plus a ten percent 10% surcharge for the administrative expenses of the Authority in completing such testing. Interest on such charge shall run from the date of the Authority's payment of any testing cost, such interest to run to the date of payment by owner.

11.12 Disputed Account

In the event of a disputed account involving the accuracy of a meter, such meter will be tested by the Authority or certified testing company upon the request of the customer, in conformity with the provisions of the Rates, Rules and Regulations. Meters 5/8" and 5/8" x 3/4" will be tested by the Authority all meters larger than 3/4" shall be removed and tested by the owner and at the owner's expense. If when so tested, the meter is found to have an error in registration of four percent or more, the bills will be increased or decreased correspondingly.

11.13 Request Test

When a meter is removed, after installation, at the request of the customer, for testing, the following regulations shall apply:

The Authority shall, upon written request of a customer, and if he/she so desires, in his/her presence or that of his/her authorized representative makes a test of the accuracy of his/her meter. When a customer desires, either personally or through a representative, to witness the testing of a meter, he/she may require the meter to be sealed in his/her presence before removal which seal shall not be broken until the test is made in his/her presence. If the meter so tested, shall be found to be accurate within the limits specified in Section 11.12, a fee determined from Section 20 Fee Schedule shall be paid to the Authority by the customer requiring such test, but if not so found, then the cost thereof shall be borne by the Authority,

when making such request, the customer shall agree to the basis of payment herein specified.

A report of such test shall be made to the customer and a complete record of such test shall be kept by the Authority. The amount of the fee is listed in Section 20 Fee Schedule.

11.14 Turn On or Off Without Authority

Neither the customer nor any plumber or other person shall turn the water on or off at any corporation stop, curb stop, or meter valve; or disconnect or remove the meter, or permit its disconnection or removal, without the written consent of the Authority. If a customer or owner turns on a water service the Authority has terminated for reason of non-payment or non-response to necessary repairs, the customer or owner will be charged an additional turn on fee and penalties assessed according to Section 11.16.

11.15 Tampering With Water Meter

Where the meter has been inspected and found to have been removed, damaged or tampered, the customer will be notified by letter that a service charge will be required to repair the meter. If the customer refuses entry to the premises, service can be discontinued and an additional fee will be charged to restore the service. The Authority reserves the right to refer to its solicitor for legal action.

11.16 Damage to System Penalty

No person(s) shall maliciously, willfully, or negligently break, damage, destroy, uncover, deface, or tamper with any structure, appurtenance or equipment which is part of the Deptford Township Municipal Utilities Authority wastewater or water facilities. Persons violating the above shall be charged under the provisions of N.J. Code of Criminal Justice.

Section 12 Minimum Technical Design Standards - Sewerage

12.1 Separate Sewers Required

The Authority will approve plans for proposed new sewerage systems or extensions only when designed upon the separate system plan, in which all water from roofs, cellars, streets, and other areas is to be excluded.

12.2 Summary of Information Required

- (a) A general map of the entire project including a key map showing the location of the project with respect to municipal boundaries.
- (b) An area map covering probable future tributary areas for sewer system projects.
- (c) Plans and profiles of all proposed sewers.
- (d) Specifications for all proposed construction.
- (e) A report upon the proposed system by the designing or consulting engineer (see Section 12.7 The Engineer's Report).

12.3 Preparation of Sewer Maps and Plans

12.3.1 General

Plans shall be drawn to standard scales and shall show the entire area of the project. The name of the Engineer and his/her seal shall be shown. In case there is more than one sheet, all shall be bound together and an index map supplied, showing by number, the area and districts covered by the various sheets. A general plan shall accompany each application for a new system or any extension or modification of any existing sewer system. Plans should be of specified version of electronic CADD format. The preferred size is a drawing having a height of twenty-four (24) inches and a length of about thirty-six (36) inches including suitable margins and should not generally exceed 30 by 42 inches in size.

Plans shall show district boundaries and all existing and proposed streets and the surface elevations at all street intersections where sewer lines are proposed. Existing structures, both above and below ground, will be shown.

Plans shall show clearly the location of all existing and proposed sanitary sewers the location of treatment works and the location of existing and proposed sewer outlets or overflows, the true or the magnetic meridian, the boundary lines, title, date and scale. The elevations of the highest known freshets or tides at the outlets and site of the treatment plant shall be given. Any area from which sewage is to be pumped shall be indicated clearly. Streams, with the direction of flow, will be shown.

12.3.2 Symbols

Sewers to be built at present and sewers to be constructed later shall be shown by standard conventions. Existing sanitary sewers shall be shown by special designations. All topographical symbols and conventions used are to be the same as those of the United States Geological Survey.

12.3.3 Elevations

Elevations of the surfaces of streets shall be placed outside the street lines opposite their respective positions in the street. The elevations of sewer inverts shall be shown at street intersections, ends of lines, and wherever a change of grade occurs. The elevation of sewers shall be written close to the point to which they refer, parallel with the sewer lines and between the street lines. The elevations of the surfaces shall be shown to the nearest 0.1 foot; those of the sewer inverts to the nearest 0.01 foot. All elevations will be referenced to the standard datum. Sufficient benchmarks shall be permanently established on U.S. Coast and Geodetic Survey Datum.

12.3.4 Distances, Grades, Sizes and Types

The horizontal distance and stationing between manholes, grades in percent and sewer sizes and types shall be shown on all proposed sewer lines. Arrows shall be drawn to indicate the direction of flow.

12.3.5 Sewer Appurtenances

All sewer appurtenances, such as manholes, siphons, pumping stations, etc., shall be designated on the plans by suitable symbols and referenced by a legend near the title.

12.4 Profiles

Profiles shall indicate all manholes (with manhole numbers), siphons, pumping stations, etc., and, in the case of stream crossing, elevations of stream beds, normal flow lines and the type of pipe. Figures showing the sizes and gradients of sewers; surface elevations, sewer inverts, etc., shall be shown at or between each manhole.

Profiles of sewer lines shall be drawn to standard scales which shall be shown upon each sheet.

On each sheet of profiles shall be given, in addition to the title, an index of the streets appearing on that sheet. Profile sheets shall be numbered consecutively.

12.5 Standard Details of Construction

Detail drawings of all sewer appurtenances, such as manholes, inspection chambers, siphons, pumping stations, etc., shall accompany the general sewer plans.

12.6 Specifications

Specifications directly applicable to the sanitary engineering (including hydraulic features) of the proposed project shall accompany all plans.

12.7 The Engineer's Report

A report by the designing or consulting engineer shall accompany all plans and specifications. The report shall include or be accompanied by a signed and notarized statement by the engineer averring that the proposed project complies with all of the rules and regulations of the Department of Environmental Protection; provided, however, if there are any exceptions thereto, the averment of compliance shall include a listing of such exceptions and an explanation of the reasons therefore. The report itself shall give all pertinent data upon which the design is based, including, where applicable and appropriate, the following:

12.7.1 Required Information Concerning Sewer Systems

- (a) The nature and extent of the area which it is proposed to include within the present system of sewerage, and of which it is planned shall drain ultimately into the system, including sections not within the boundaries of the affected municipality.
- (b) The number of houses and the population to be served both present and estimated for at least twenty-five (25) years hence, with computations and curves.
- (c) The estimated per capita daily flow of sewage to be cared for, with supporting data.
- (d) The total and per capita water consumption of the district to be served at the present time, if available.
- (e) The allowance made for infiltration in the sewers.
- (f) The estimated daily flow of sewage, including infiltration.
- (g) The character of the sewage (whether domestic or industrial wastes or process waters, and in case of the latter, the nature and approximate quantity of the same stated in specific terms); also a breakdown of all quantities.
- (h) That portion of the system to be built at the present time.
- (i) The minimum grades of sewers for each size used.
- (j) Logs of test borings and ground water elevations will be shown.

12.8 Capacity and Design Period

All sanitary sewers, including outfalls are designed to carry at least twice the estimated average design flow when flowing half full. In the case of large interceptor sewer systems, consideration may be given to modified designs.

The design period for the estimated flow shall be at least twenty-five (25) years; longer periods are recommended for major projects.

For sewers other than circular in cross section, the data to be submitted shall include the geometrical shape, dimensions and hydraulic characteristics of the proposed sewer.

12.9 Materials, Minimum Grades and Velocity of Flow

- (a) All sewers shall be constructed of materials acceptable to the Authority for the purposes and conditions they are intended to serve.
- (b) Sewers shall be designed with such hydraulic slope as will give a mean velocity of not less than two (2) feet per second when flowing full or half full, based on Kutter's or Mannings' formula with n-0.013. The fall in feet per 100 ft. of sewer shall be not less than the following:

Pipe Diameter	Fall in feet per 100 feet of sewer
8"	-.40
10"	-.29
12"	-.22
14"	-.17
15"	-.16
16"	-.14
18"	-.12
20"	-.10
21"	-.095
24"	-.080
27"	-.067
30"	-.058
36"	-.040

- (c) Grades producing velocities in excess of ten (10) feet per second are not recommended.
- (d) The minimum size of sewers will be eight (8) inch.
- (e) Curved sewers will be approved only under special conditions. The minimum diameter will be eight (8) inch; the minimum radius of curvature will be 100 ft.; and manhole spacing will not exceed 300 ft. Approval will be limited to areas where curved streets comprise the general layout, or where the use of curved sewers would permit substantial savings in cost, or avoid very deep cuts, rock or obstructions of a serious nature.
- (f) Sewers crossing streams or to be located within ten (10) feet of a stream embankment or otherwise where unusual strength is indicated, shall be ductile iron epoxy lined or other suitable material and shall be properly protected.
- (g) Sewer and water mains generally shall be separated, a distance of at least ten (10) feet horizontally. If such lateral separation is not possible, the pipes shall be in separate trenches with the sewer at least eighteen (18) inches below the bottom of the water main; or such other separation as approved by the Authority shall be

made. In general, the vertical separation at a crossing of sewer and water line shall be at least eighteen (18) inches. Where this is not possible, the sewer shall be constructed of ductile iron epoxy lined pipe using -rubber “O” ring joints for a distance of at least ten (10) feet on either side of the crossing or other suitable protection shall be provided.

- (h) Any sewer within 100 feet of a water supply well or a below-grade reservoir shall be ductile iron epoxy lined or other suitable material; shall be properly protected, of completely watertight construction, and shall be tested for water tightness after installation.
- (i) When grades less than those specified above are proposed, an explanation for the use of such grades shall be included in the engineer's report; and said explanation shall be included in the averment called for under 12.7.

12.10 Inverted Siphon

Inverted siphons shall be ductile iron epoxy lined or other approved material and shall have not less than two barrels. Provision shall be made for rodding and flushing. A velocity of three (3.0) feet per second should be maintained and flow control gates in chambers should be provided. Use of inverted siphon shall be minimized and only used where no other practical means are available.

12.11 Joints

Joints in sewer lines constructed of SDR 35 PVC or ductile iron epoxy lined pipe shall be rubber “O” ring type.

12.12 Manholes

Manholes shall be provided at the ends of each sewer line and at intersections and at all changes in grade, size or alignment. Lamp holes will not be used.

Distances between manholes shall not exceed 300 feet for sewers.

A drop pipe shall be provided for lateral sewer mains entering manholes above manhole invert wherever the difference in elevation is two (2) feet or more.

No manholes or connections on a sanitary sewer system will be permitted within 100 feet of a water supply well or a below-grade reservoir.

Adequate provision shall be made for ventilation.

No sewer lateral shall be allowed to be tapped into a manhole, unless approved by the Authority.

12.13 Pumping Stations

12.13.1 General

Raw sewage shall be screened before pumping unless special pumping equipment approved by the Department of Environmental Protection is used. Comminutors may be approved in lieu of screens.

When two pumping stations are out letting into a common force main, the design shall provide for stage pumping, preferably by the use of variable speed pumps, so as to eliminate, as far as practical, surges of flow.

Pump stations shall be of the suction lift type with all components manufactured and warranted by a single manufacturer wherever possible. Submersible pump stations will not be permitted unless hardship is demonstrated to and approved by the Authority.

An auxiliary source of power shall be provided for electrically driven pumps, unless an alternate is approved by the Authority.

Automatic sound alarms, operating independently of the station power, shall be installed to give warning of high water, power failure, or breakdown.

Such alarm system shall extend by wire to a dispatch station or other location approved by the Authority where competent assistance can be obtained in emergency.

Pumping stations shall not be subject to flooding and must be accessible by motor vehicles.

Adequate light and ventilation shall be provided at all pumping stations. Where operational or maintenance duties are required in enclosed areas or pits, forced ventilation by suitable means shall be provided with sufficient capacity to induce at least twelve (12) air changes per hour.

Adequate fresh-water facilities shall be provided to permit routine wash down and cleaning operations at all pumping stations. Where a domestic water service connection is provided to a pumping station, the water supply shall be properly protected as described below. No connections between fresh-water and sewage pumps or pipes shall be permitted.

- (a) An adequate supply of water under pressure shall be installed.
- (b) Where a domestic water service connection is provided to a pumping station, the water supply shall be protected by an approved backflow prevention device acceptable to the NJDEP
- (c) Taps supplying non-potable water shall be clearly labeled "Unfit for Drinking".

Pumping Stations shall be designed in accordance with NJDEP regulations 7:14A-2310 through 7:14A2312 as a minimum standard only.

The specifications herein are intended as minimum general standards. The Authority and it's engineer reserves the right to specify pumping station types, equipment, etc. on a case by case basis depending on flows, depth, location and possible future expansion.

A licensed operator shall be retained for operation of privately owned pump stations as required by NJDEP. Licensed operator shall provide copies of licensure status to DTMUA and on an annual basis as well as maintain an operation and maintenance log subject to inspection and review by DTMUA. The licensed operator requirements as outlined shall also adhere to pump stations that will be owned and maintained by DTMUA prior to transfer of ownership to the DTMUA.

12.13.2 Pumps

Pumping station capacity should be compatible with the ultimate capacity of the influent sewer. At least two pumps, each designed to handle peak flows for ten (10) or more years hence, shall be provided.

If more than two pumps are provided, their capacities shall be such that, upon failure of the largest pump, the others will handle such peak flows. Pumps shall be installed in dry wells or in wet wells and preferably should operate under a positive suction head. A means of flow measurement is desirable. Shut-off valves will be provided on suction and discharge piping, which shall be flanged or otherwise removable, and check valves shall be provided on discharges. Special repair tools and accessories required for maintenance shall be provided.

Force main velocities shall not be less than two (2) foot/second at normal pumping rates. Properly designed air release valves shall be provided on the high points of the force line.

12.13.3 Wet Wells

- (a) The capacity of a wet well should not exceed ten (10) minutes when the flow is at the average dry weather rate.
- (b) The floors of wet wells shall slope at least 45 degrees toward pump suction to prevent solids accumulation.

12.13.4 Electrical Equipment

- (a) Electric motors shall be so located as to be protected from flooding.
- (b) Electric motors and electrical power equipment should not be installed in subsurface chambers; where installation in such a location is necessary, the motors and equipment shall be of the explosion-proof and damp-proof type.
- (c) All electrical equipment and work shall comply with Fire Underwriters' regulations for the location involved and to the National Electric Code.
- (d) VFD systems may be required.
- (e) Back-up emergency generation must be installed at all pumping stations.

12.14 Auxiliary Electrical Power

12.14.1 General Requirements

Auxiliary electrical power is required for all motors used for wells, lift stations and other motor driven equipment as determined by the Authority. This shall apply to all projects, which major project is defined as including but not limited to subdivisions, general commercial projects and multiple occupancies in the excess of three domestic consumer units. The Authority reserves the right to make exceptions to the above requirement when it appears the imposition thereof will be patently inequitable.

12.14.2 Permanent Auxiliary Electrical Power

Permanent auxiliary power generators shall be made part of any motor driven equipment and shall be included as a cost of the equipment. The power generator shall be in proper housing of a type and/or design and to be approved by the Authority Engineer. The power generator will be powered by either diesel fuel or natural gas. This will be determined by the Authority on a case-by-case basis.

12.14.3 Excess Capacity

Where the motor driven equipment is required by the authority to be sized or specified in excess of the needs of the project, and otherwise qualifies for a connection fee off-set as provided in the Rates, Rules and Regulations of the Authority, the proportionate share of the excess capacity shall be interpreted to also include any excess capacity in the auxiliary generator.

12.14.4 Connections

Residential subdivisions containing four (4) or more contiguous building sites or lots or any residential structure to be used by three or more families, regardless of volume of flow, and all non-residential developments such as schools, commercial buildings, industrial buildings and all other structures, will be required to install a sanitary sewer system and water distribution system to be connected with the nearest existing sanitary sewer and existing water main in the Township. Residential subdivisions containing three or less building sites or lots or if the lands are deemed by the Authority to be too remote from any existing facilities, then consideration will be given to an individual sewage system, with a dry sanitary sewer system for future use, in lieu of connection to existing facilities. Individual sewage disposal systems will be permitted only upon specific written permission of the Authority.

If the lands are deemed by the Authority to be too remote from an existing water main or if the volume of potable water required is greater than capabilities of the existing facilities, then consideration will be given to a new water supply and/or storage facilities or the installation of dry water mains for future use. Such individual system, plant or expansion of the location thereof shall be subject to approval by the Authority in accordance with the standards and requirements as hereinafter set forth.

Any main extension and related facilities installed under the provisions of this section shall be transferred to the Authority as hereinafter described.

During construction, but before final acceptance, the Authority shall have the right to use any completed portion of the system without waiving its right to further inspection or testing or to order correction of any defects.

Use of the sanitary sewer system for the discharge of sump pumps, or drainage from cellar drains, leaders, downspouts, drainage tile, swimming pools, cooling system drains and other similar discharges shall not be permitted.

Unpolluted industrial cooling waters and unpolluted drainage shall be discharged into a storm sewer or natural outlet.

These General Provisions are and shall be subject to the existing contractual obligations outstanding.

12.15 Checklist

PROJECT: _____

PROJECT No: _____

**DEPTFORD TOWNSHIP MUNICIPAL UTILITIES AUTHORITY
MINIMUM TECHNICAL DESIGN STANDARDS – SEWAGE [CHECK LIST]**

- General Map and Key Map
- Area Map of future tributary flow
- Plans and Profiles of all proposed sewer
- Specifications of all proposed construction
- Engineer's Report
- Existing and proposed streets and elevations
- Existing structures above and below ground
- Existing and proposed sewers
- North Arrow
- Boundary lines, title, date and scale
- Any streams shall be shown
- Benchmark elevations and USGS Datum
- Sewer distances, grades, sizes and types
- Arrows shall be drawn to indicate flow
- All manholes, siphons, pumping stations, etc.
- Standard Details
- Minimum size of sewer to be 8 inch
- Minimum slope of sewer to be 0.0040
- Sewer and water to be separated by 10 feet
- Distances between manholes not to exceed 300 feet
- Lateral size to be 4" diameter
- Cost Estimates for Sewer Improvements

Section 13 Minimum Technical Design Standards - Water

13.1 Preliminary Plans

In the case of extensive or involved projects, or those for which deviations from these Rates, Rules and Regulations are anticipated, the preparation of a preliminary report and plan is advisable before detailed design proceeds; and it is recommended that the preliminary data be discussed with the Authority Engineer before final decisions are made. Formal comments will be made by the Department of Environmental Protection on preliminary reports, if requested.

13.2 Applications for Approval

Applications for the approval of plans and specifications shall be submitted by a qualified professional engineer licensed to practice in New Jersey, on forms provided by the Department of Environmental Protection. Plans submitted by such an engineer shall bear his/her seal (R.S. 45:8-45) and must be preceded or accompanied by a letter of appointment from the proper official of the city, county, district, company or other unit, certifying that the engineer has been duly authorized to prepare such plans and specifications.

Applications are to be signed by the proper official (with title) of the public body, company, or corporation; (or if signed by an authorized agency, shall be accompanied by a certified copy of the authorization).

Applications by newly constituted privately owned water utilities shall be approved by the local governing body of the municipality or municipalities concerned.

The review of plans by the Department of Environmental Protection is limited to sanitary engineering features of public health significance; it does not include the examination of structurally, hydraulic, mechanical or electrical design nor economic factors.

The approvals of the Bureau of Water Control and Bureau of Geology, Department of Environmental Protection, and of the Department of Public Utilities, are required in many instances of water supply projects.

Such approvals are frequently coincidental with the requirements of approval by the Bureau of Potable Water, New Jersey State Department of Environmental Protection.

13.3 Engineering Data to be submitted to the Department of Environmental Protection

The following materials shall accompany the application for approval:

- (a) An Engineer's Report as outlined subsequently
- (b) Maps, plans and specifications
- (c) Total estimated cost of the proposed project, including the cost of the land, legal and engineering fees, and the cost of all applicable structures, even though they may not be subject to review.

13.4 Engineer's Report

The Engineer's Report shall, when pertinent, contain the following information:

- (a) Description of existing waterworks as related to the proposed project.
- (b) Data on present and future population served by the facility together with present and anticipated water requirements and the relationship of the proposed works to these factors. Estimates should be for a period of twenty-five (25) years.
- (c) Information on the source of supply, to include the following data:
 1. If from a surface source; the dependable yield, characteristics of the quality of the water in relation to its ability to be treated; information obtained as a result of a sanitary survey on the sources of pollution; and the existing or proposed measures to insure protection of the supply.
 2. If from an underground source; data on the geological strata expected to be penetrated and the effect that such strata may have on the quality of the water; available information on yield and water quality; test well findings (if any); sources of potential pollution within a minimum distance of five-hundred (500) feet or, in the case of adverse geological conditions such as creviced or fissured rock formation, from a larger area; and a general description of the construction features proposed to protect the source from pollution.
- (d) A description of significant pumping equipment, giving capacity of units and general information on the arrangement of facilities including the provision of standby power (if provided), control of operation, and alarm systems.
- (e) A summary of proposed treatment processes with data to establish that the proposed processes will produce adequate protection of the water so treated, together with sufficient information on the nature and dosage of any chemicals applied so as to provide the reviewer with a clear understanding of their operation. Normal capacity of each unit shall be given to show that the requirements of these Rates, Rules and Regulations are being met.
- (f) The methods proposed for the treatment and disposal of sludge and filter backwash.
- (g) Sanitary features of proposed storage, transmission and distribution works.
- (h) That portion of the system to be built at the present time.

13.5 Maps

A map or maps in sufficient detail to aid in the examination and comprehension and the specific project covered by the application shall be embodied with, or accompany, the plans and specifications. All maps shall be drawn to a suitable scale, shall be properly titled, and the north point and datum shall be indicated. Topography shall be shown by elevations, contours or other suitable methods. Roads, streams, municipal boundaries and other features shall be shown, including applicable data such as water sheds, reservoir locations,

wells and well fields, water treatment plants existing transmission and distribution mains, storage tanks, fire hydrants, and potential sources of pollution such as sewers and sewage disposal units.

13.6 Plans

13.6.1 Details

Plans shall be drawn to standard scales on uniformly-sized sheets. Each sheet shall contain necessary titles, scales, dates, owner's name and the general description of the project. The name of the engineer and his/her seal shall be shown on each sheet. Plans shall be submitted on the specified version of electronic CADD format.

The preferred size is a drawing having a height of twenty-four (24) inches and a length of about thirty-six (36) inches including suitable margins and should not generally exceed 30 x 42 inches in size. Lettering should be sufficiently large to permit reduction, and all plans should have graphic scales.

If there is more than one sheet, all shall be bound together and, in the case of transmission and distribution mains, an index map shall be supplied showing by number the area and districts covered by the various sheets.

13.6.2 Symbols

All topographical symbols and conventions used shall be clearly defined. Water transmission and distribution mains to be built at present or constructed later shall be shown by suitable conventions, where applicable, existing sanitary sewers shall be shown by special designations.

13.6.3 Elevations and Dimensions

Surface elevations shall be shown of all important parts of the work, with sufficient dimensions to permit verification of the operation of the facility. Datum shall be US Coast and Geodetic Survey Datum.

13.7 Specifications

Complete specifications shall be submitted covering the potable water facilities of the project. To conserve file space and to facilitate review of the data, sections dealing with general conditions of Contract, Notices to Bidders, Detailed Specifications for such items as doors, windows, fittings and fixtures, steel work, concrete, and wood work, should be omitted.

13.8 Ground Water Supplies

13.8.1 Design

The following criteria shall be considered in designing a water supply system for a realty improvement:

- (a) Availability of water from a public potable water supply within an economic distance from the realty improvement.
- (b) Advisability of establishing a public potable water supply.
- (c) A dependable source of water supply.
- (d) Geology
- (e) Potential and known sources of pollution.
- (f) A balance system of supply, pumping, treatment, distribution and storage facilities to meet the peak demand.

13.8.2 Alternate Design or Construction Features

Proposed design or construction features of a water supply differing from the provisions of these standards may be approved upon submission of evidence to the satisfaction of the Administrative Authority that public health or safety would not be affected adversely by such design or construction and such proposed design or construction features did not permit lower standards than those required herein.

13.8.3 Water Consumption

For water systems that supply all persons other than residential consumers, the yield shall be at least three times the average daily demand as determined using Table below.

TYPE OF ESTABLISHMENT	GALLONS PER PERSON PER DAY
Cottages	100
Single Family dwellings	100
Multiple family dwellings (apartments)	75
Rooming house	50
Boarding house**	75
a. For each nonresident boarder	15
Hotel**	50-75
Motel and tourist cabin	50-75
Mobile Home Park	100

TYPE OF ESTABLISHMENT	GALLONS PER PERSON PER DAY
Restaurant	
a. Sanitary demand, per patron	5
b. Kitchen demand, per patron	5
Kitchen and sanitary demand	10

Camp*	
a. Barracks type	50
b. Cottage type	40
c. Day Camps (no meals served)	15
Day School	
a. No cafeteria or showers	10
b. With cafeteria and no showers	15
c. With cafeteria and showers	20
d. Cafeteria, showers and laboratories	25
Boarding School**	75
Healthcare institution other than hospitals	75-125
Hospital (depending on type)	150-250
Industrial facility (8 hour shift)	25
Picnic Grounds or comfort station	
a. With toilet only	10
b. With toilet and showers	15
Swimming pool or bathhouse	10
Club house**	
a. For each resident members	60
b. For each nonresident member	25
Nursing Home	150
Campground	
a. Without individual sewer hook-up	75 per site
b. With individual sewer hook-up	100 per site
c. With laundry facility and individual sewer hook-up	150 per site
Storage, office building	0.125 gal/sq. ft.
Self-service laundry	50 gal/wash

* When the establishment will serve more than one use, the multiple uses shall be considered in determining water demand.

** Includes kitchen demand at 10 gallons per person per day. If laundry demand is anticipated, the estimated water demand shall be increased by 50 percent.

13.8.4 Sources of Water

The source of water shall be from an NJDEP or Gloucester County Health Department approved source.

13.8.5 Grading

Final grading shall provide adequate drainage of surface water away from the well and be of sufficient height to protect the sources of water supply from flooding.

13.8.6 Freezing

All parts of the water supply system shall be designed, located and constructed to protect against freezing.

13.8.7 Cross Connection

No (physical) cross connection shall be established between a water supply system serving a realty improvement and an approved public potable water supply unless approved with the provisions of N.J.S.A. 58:11-9.1 et seq.

13.8.8 Priming

A pump which requires priming, other than the initial priming following installation, shall not be employed for any water supply system serving a realty improvement.

13.8.9 Disinfection

Upon completion of the installation of a water supply system or following repair to its pumping equipment, it shall be flushed, disinfected with a chlorine solution then thoroughly flush to remove all traces of chlorine in a manner acceptable to the Administrative Authority.

13.8.10 Duplicate Installations Required

In supplies derived entirely from ground water sources, duplicate wells and pumping equipment, or equivalent, shall be provided when average water demand exceeds twenty thousand (20,000) gallons per day or the number of services exceeds one-hundred (100).

An interconnection with another approved public water supply may be accepted in lieu of a duplicate installation.

13.8.11 Protection of Ground Water Sources

Sufficient land shall be acquired around wells, infiltration galleries, springs, and similar sources of ground water developed for public water supply, as to satisfy the Department of Environmental Protection.

All land within a minimum of fifty (50) feet from a well shall be acquired by the owners of a public water supply system.

Any sewer or line carrying sanitary or industrial wastes which are within one-hundred (100) feet of a well shall be ductile iron epoxy lined or other suitable material; shall be properly protected, of completely watertight construction, and shall be tested for water tightness after installation.

No manholes or connections on a sanitary sewer system shall be permitted within one-hundred (100) feet of a well.

13.8.12 General Information Required

The Engineer's Report required in accordance with the provisions of Section 14.4 shall include the following information:

- (a) General description of the construction of the ground water source.
- (b) Test pumping report including maximum tested yield and drawdown.
- (c) Capacity of pumping equipment installed and the control of its operation.

13.8.13 Information to be shown on Map

The map or maps required in accordance with the provisions of Section 14.5 shall show the following information:

- (a) Topography and the locations of existing sources, presently planned, and future planned ground water sources in the area under consideration. Each source shall be given an identifying number in chronological order of construction.
- (b) Elevations of well-heads above a common datum plane and highest known flood elevations.
- (c) Pollution hazards (such as septic tank systems, sewers, barnyards, and watercourses), are required.

13.8.14 Formation Log

The detailed plans and specifications shall be accompanied by a formation log showing the types and thicknesses of formations penetrated by the well or, in the event this information is not available at the time of the application, it shall be submitted to the Department of Environmental Protection, when the well has been constructed and prior to the approval of the well as a source of water for public potable and domestic purposes.

13.8.15 Detailed Drawings

- (a) A schematic drawing or drawings of the construction shall be included with as much detail as is practicable with the information available, and shall include:
 - 1. Length, size and locations of casings and screens.
 - 2. Method of sealing off shallow ground water from entering the well, including the sealing of the annular space between the drill hole and the outer casing and surface strata.
 - 3. Pumping unit, including prime and stand-by power sources.
 - 4. Plan and section of pump house or similar structure.

5. Method of connecting the well or other ground water source with the distribution system.
- (b) A detailed drawing or drawings shall be submitted for the following construction:
1. Details of well head, including elevations of protective curbing, top of casing, pump house floor and surrounding grade.
 2. Method of sealing well head against surface pollutants.
 3. Provision and locations of well vents and the methods for their protection against the entry of contaminating matter.
 4. Well head piping details, showing provision and locations of check valves, surge or air-relief valves, gate valves, sampling tap, water level indicator, discharge pressure gauge, and blow-off connection to permit pumping to waste.

13.8.16 Applicability of AWWA Standards for Wells

Subject to the provisions of this Section, minimum well construction standards shall equal applicable portions of the American Water Works Association Standard for Deep Wells (AWWA A100-66) or superseding standard.

13.9 Distribution Systems

13.9.1 Material to be submitted

- (a) For new water supply systems, a plan showing the distribution system shall be submitted with the other engineering data. This shall show locations, diameters and material of the pipes, and location of hydrants, blow offs and main valves.

13.9.2 Capacity and Size of Mains

- (a) Design capacity of water mains shall be such as to provide a minimum pressure of twenty pounds per square inch (20psi) at peak day demand plus fire flow.
- (b) Unless a smaller diameter can be justified by the engineer, the minimum diameter of all distribution mains shall be eight (8) inches. In any case, any pipe intended to supply fire hydrants shall have a minimum of eight (8) inches.
- (c) The use of eight inch (8"), twelve inch (12") or sixteen inch (16") diameter mains as a standard are pre-approved by the MUA.

13.9.3 General Design Requirements

- (a) So far as is practicable, distribution mains shall be laid in a loop system to eliminate dead ends as per N.J.A.C.7:10-11.10 and N.J.A.C. 5:21-5.3(b). A loop system shall consist of interconnection of water mains between separate transmission lines, i.e. water mains from two different streets. Dead ends, if unavoidable, shall have a fire

hydrant, flushing hydrant, or blow off as determined by DTMUA for flushing purposes.

- (b) Valves, except on a permitted dead end, shall be located on distribution mains so that no more than one fire hydrant would be out of service as a result of a single water main break. They shall be located in all small branches off larger mains; and where eight-inch or larger mains lines intersect, a valve shall be located in each branch. At street intersections, valves shall be located near pipe intersections for ease in finding in the event of a water main break per N.J.A.C. 5:21-5.3(c).
- (c) Water mains shall be valved so that not more than one-fifth of a mile would be affected by a single water main break per N.J.A.C. 5:21-5.3(d).
- (d) All distribution mains shall be provided with sufficient earth four (4') feet minimum, or other suitable cover to prevent freezing.
- (e) Water services and plumbing shall conform to the relevant local and/or State plumbing codes.
- (f) The specifications shall include provision for the adequate disinfection of all new distribution mains prior to being placed into service.
- (g) Water mains and sewers generally shall be separated by a horizontal distance of ten (10) feet. If such separation is not possible, the water and sewer pipes shall be in separate trenches, with the sewer at least eighteen (18) inches below the bottom of the water main. At crossings of sewer and water mains, the sewer shall be at least eighteen (18) inches below the bottom of the water main. Where this is not possible, the sewer shall be constructed of ductile iron epoxy lined pipe with rubber "O" type joints, for a distance of at least ten (10) feet on either side of the crossing.

13.9.4 Water Crossings

- (a) Surface water crossings, both over and under water, present special problems which should be discussed before final plans are prepared.
- (b) Sampling taps and valves will be provided at each end of a water crossing to facilitate sanitary control.

13.9.5 Maintenance of Adequate Protection

- (a) Chambers or pits containing gate valves, air-relief valves, blow offs, meters or similar appurtenances to a distribution system shall be suitably drained and shall not be connected directly to any storm sewer or sanitary sewer.
- (b) No blow off, air-relief valve, flushing device, or hydrant drain shall be directly connected to a storm sewer or sanitary sewer.
- (c) The open end of an air-relief pipe shall be extended from the manhole or enclosing chamber to a point at least one (1) foot above the ground, and shall be provided with a down facing elbow and insect screen.

- (d) Except as permitted under the provisions of Chapter 47, P.L. 1966 (N.J.S.A. 58:11-9.1 et seq.) there shall be no physical connection between the distribution system and any unapproved source of water. No steam condensation, or cooling water from engine jackets or other heat-exchange devices, shall be returned to the potable water supply.

13.10 Distribution Storage

13.10.1 General

- (a) Storage for finished water shall be provided as an integral part of each water supply system.
- (b) The location, size, type and elevation of the equalization reservoir, standpipe or elevated tank shall be such as to meet the distribution system pressure requirements contained in Section 14.9.
- (c) Unless a smaller capacity can be justified by the provision of standby power, alternate sources of supply, adequate booster pumps or inter-connections, storage facilities serving the system by gravity shall be equivalent to approximately one day's water requirements.
- (d) In any system serving more than fifty (50) customers, hydro pneumatic tanks will not be considered as providing adequate storage.
- (e) Clear wells, whether designed as separate structures or as part of the filter structure, shall meet the requirements for below grade reservoirs, as issued by the New Jersey Department of Environmental Protection.
- (f) Finished water shall not be stored adjacent to an untreated water compartment when only a single wall separates the two.
- (g) Each reservoir and tank shall be equipped with overflow and low level warnings or alarms.
- (h) There shall be means available to determine water level elevations in each distribution storage unit.
- (i) Facilities shall be so designed as to permit dewatering for cleaning and maintenance without interrupting service. Direct connection to a storm sewer or sanitary sewer will not be permitted.

13.10.2 Protection and Safety

- (a) All equalization reservoirs, standpipes and elevated tanks shall be protected against unauthorized access and vandalism. Proper fencing with locks and other necessary safeguards shall be provided.
- (b) Due regard, in the design of an elevated facility, must be given to the personal safety of the employees.

13.11 Checklist

PROJECT: _____

PROJECT NO: _____

DEPTFORD TOWNSHIP MUNICIPAL UTILITIES AUTHORITY MINIMUM TECHNICAL DESIGN STANDARDS – WATER [CHECK LIST]

- Engineer's Report
- Map plan and specifications
- Cost estimates
- Locations, diameters and material of pipe
- Hydrants, blowoffs and main valves
- All water mains to be CLDIP
- Gates valves to be resilient seated
- Valve boxes to state water and arrow on cover
- Fire Hydrant to be Waterous-Pacer, Model 100, or US Pipe Metropolitan
- Hydrant to be thrust blocked
- Valves to be supported by Concrete block
- Fire hydrant location must be approved by Fire Marshall
- Service to be ¾" Type K copper
- Water main shall be tested after installation of services and base paving
- Two-hour pressure test at 150 psi
- Flushing and disinfection
- Wet taps to be MJ tapping sleeve by Waterous Series 2800, Mueller
- Retaining flanges on all fittings, bends, valves and sleeves
- Cost Estimates for Water Improvements

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Section 14 Related Technical Standards - Sewer

14.1 General

- (a) All sanitary sewers shall be installed in strict accordance with the New Jersey Department of Environmental Protection and Energy "Rules and Regulations" and Deptford Township Municipal Utilities Authority Rates, Rules and Regulations.
- (b) The minimum size of sewers shall be eight inch (8") diameter. A minimum cover of three (3') is required for all sewers to be installed.
- (c) A laser and target must be used to lay pipe to proper slope.
- (d) Minimum fall for eight inch (8") P.V.C. is 0.004 feet per foot and maximum is ten percent (10%) per foot.
- (e) All sewer main must be laid with a six-inch (6") thick 3/4 inch clean crushed stone bed up to the spring line of the pipe.
- (f) All sewers shall be constructed of ductile iron epoxy lined pipe or polyvinyl chloride (PVC) sewer pipe SDR-35 minimum.
- (g) Inverted siphons and force mains shall be constructed of ductile iron epoxy lined pipe unless otherwise permitted by the Authority.

14.2 Polyvinyl Chloride (PVC) Sewer Pipe

- (a) Material Standards for Pipe and Fittings
 1. PVC sewer pipe shall have bell and spigot ends, and O-ring rubber gasket joints. PVC pipe and fittings shall conform to ASTM D3034 with a minimum wall thickness designation of SDR 35, or shall conform to ASTM F679, F789, F794, or F949 with a designated pipe stiffness of PS-46.
 - a. The plastic material from which the pipe and fittings and extruded shall be impact types of PVC, unplasticized, having high mechanical strength and maximum chemical resistance, conforming to Type 1, Grade 1 of the specification for rigid polyvinyl chloride compounds, ASTM D1784.
 - b. Pipe shall be free from defects, such as bubbles, cracks, holes or other imperfections, in accordance with accepted commercial practice. Test results demonstrating that the pipe meets ASTM D2444 for impact, and ASTM D2321 for deflection and pipe stiffness, shall be provided when requested by the municipality or utility authority.
 - c. Joints shall conform to ASTM D3212. Rubber-ring gaskets shall conform to ASTM F477. The gasket shall be the sole element

depended upon to make the joint watertight.

- d. PVC pipe and fittings shall be Type PSM SDR-35 Gravity Sewer Pipe conforming to ASTM D-3034 as manufactured by Johns-Manville, CertainTeed or approved equal.

14.3 Ductile Iron Epoxy Lined Pipe

- (a) Ductile iron epoxy lined pipe shall conform to the requirements of the American Standards Association Specification A21.51 and A21.4 as amended and revised to date. Unless otherwise specified herein, ductile iron pipe shall be thickness Class 52.
- (b) "Tyton" joints shall conform to the American National Standards Specification A21.11 and A21.4 as amended and revised to date.

14.4 Manholes

- (a) All manholes shall be constructed of precast reinforced concrete in accordance with ASTM C-478. Manholes shall be manufactured by the "wet" process and shall be cured in the forms for several hours. The minimum compressive strength of the concrete for all sections shall be 4000 lbs. per square inch. The maximum allowable absorption of the concrete shall not exceed 8% of the dry weight. Tests shall be similar to those described in ASTM C-76. The circumferential reinforcement in the walls of all sections shall be a minimum of 0.12 square inch per linear foot for inside diameters up to and including 54 inches, and 0.17 square inch per linear foot for the larger sizes. Reinforcement in flat slab top sections shall be designed for the load to be supported. Additional reinforcement shall be provided at all openings larger than six (6) inches
- (b) Joints of manhole sections shall be formed entirely of concrete in accordance with ASTM C-443 and shall be made with a rubber gasket. Joints shall be self-centering and watertight. All seams and lift holds must be grouted with non-shrink grout. Joints of the sections shall be formed entirely of concrete in accordance with ASTM Designation C443 and shall be made with a rubber gasket installed in accordance with the manufacturer's recommendations. Joints shall be self-centering and watertight against internal and external hydrostatic pressure with the gasket utilized as the sealing element and external and internal seams grouted
- (c) Base sections shall be furnished by the manufacturer with a compressible rubber ring. Waterways shall be constructed by a journeyman mason in the field after the manhole has been installed. The shape and size of waterways shall conform to the shape and size of connecting pipes as shown or ordered. Special care shall be taken to form channels with curved shapes that will provide the best hydraulic conditions for smooth flow. Benches shall be sloped to drain to the waterways. Concrete used in forming waterways shall be a stiff, rich mix, and shall be given a steel trowel finish

- (d) Channels are to be smooth and properly constructed of concrete, if not pre-cast. The height of the channel shall be 2/3 of the pipe.
- (e) The outside surface of entire manhole shall be given a protective coating of two (2) shop coats of asphalt paint with the total dry film thickness of not less than four (4) mils.
- (f) The manhole shall be laid on a bed of twelve-inch (12") thick 3/4 clean crushed stone. Also, stone bedding shall be installed under first pipe in and out.
- (g) Manhole frames shall be adjusted to finish grade by building a circular brick-in-mortar collar above the pre-cast manhole opening. Maximum height of the collar shall be twelve (12") inches except where otherwise ordered. Brick shall be sound, hard, well-burned, sewer brick conforming to the requirements of ASTM Designation C-32, Grade MA and shall be laid radially. Mortar shall consist of two (2) parts sand to one (1) part cement, thoroughly mixed in the required proportions before adding water. After laying up the collar and setting the frame in a full bed of mortar, the exterior of the collar shall receive a minimum 3/4 inch thick mortar coat to provide a water tight covering.
- (h) Where pipe is tied into existing manhole, the opening must be core drilled. A gasket must be installed in the opening. A detail must be submitted for review and approval by the Authority Engineer.
- (i) The cone section of the manhole shall have a thirty-inch (30") diameter opening at the top.

14.5 Manhole Appurtenances

- (a) Manhole frames and covers shall be of the circular flared type frame with round flange equal to Catalog Number 1012B thirty inch (30") opening as manufactured by Campbell Foundry Company. Frames and covers must be manufactured in the United States and conforming to the requirements of ASTM Designation A 48, Class No. 30. Seating surfaces of manhole frame and covers shall be machined to insure a non-chattering fit. Manhole frames and covers shall be properly cleaned and coated with a waterproof asphaltum applied by immersion, while the castings are hot.
- (b) All manhole covers shall have two (2) recessed lifting handles.
- (c) Locking devices, equal to Campbell Foundry Company number 1460B with lock device type D - countersunk bolts, shall be provided on frames and covers on all manholes located in easements. A key shall be supplied to the DTMUA with each locking type unit. Locking type covers shall also be provided with a single recessed lifting handle. Lifting handle shall be equal to that shown.
- (d) All covers shall be cast with the identifying letters "sewer." Letters shall be two inches (2") high and embossed against a recessed background.

- (e) Manhole rungs shall be extruded aluminum alloy or polypropylene with the step drop front design. Rungs shall be cast in the vertical sides of the manhole sections on twelve-inch (12") centers.
- (f) Manhole inserts shall be installed beneath the cover to prevent storm water inflow. Inserts shall be as manufactured by Parson Environmental or approved equal.
- (g) The contractor shall modify existing manholes by cutting masonry, setting pipe in place and filling with non-shrinking grout. Waterways shall be chipped and roughened, and then finished with cement mortar to provide the best hydraulic conditions for smooth flow.
- (h) Flexible joints shall be placed at the manhole wall, and within four (4') feet of the wall.
- (i) Installation of riser rings on newly constructed manholes is not permitted. Frame and grate elevations shall be set to final grades.

14.6 Drop Manholes

- (a) A drop manhole shall be provided for sewers entering manholes above manhole invert wherever the difference in elevation is two feet (2') or more.
- (b) The drop connection must be made outside the manhole.
- (c) The pipe must be encased with 4,000 psi concrete on the outside of the manhole.
- (d) The base of the manhole must be anchored with the base of the drop connection.
- (e) Additional details shall be provided for drop manholes with invert differences exceeding two (2') feet, and for shallow manholes where the grade-to-invert depth is less than 5'-6". These details are subject to review and approval by the Authority Engineer.

14.7 Laterals

- (a) A size four-inch (4") lateral shall be laid at a minimum grade of 1/4 inch per foot and in a straight line from the point of connection to the main to the vertical riser and shall include a ten foot (10') length behind the riser.
- (b) The lateral shall be connected to the main with a wye fitting and shall be at least four feet (4') below the surface of final ground.
- (c) Lateral to be installed at ninety degrees (90°) to the main.
- (d) A four-inch (4") vertical riser shall be installed for each lateral.
- (e) A four-inch by four inch (4" x 4") Tyler two-way type tee shall be installed for each lateral at the riser.

- (f) Each riser shall have a five inch (5") cast iron ferrule with a four (4") inch brass plug.
- (g) Riser shall be placed within two feet (2') of the curb or edge of paving.
- (h) Riser location shall be permanently marked on curb with an "S" saw cut on top of curb.
- (i) Risers cannot be installed in driveways and sidewalks (no exceptions).
- (j) All laterals shall be installed before pressure test is performed.
- (k) A deep cut lateral shall be installed where the depth of the main is eight feet (8') and over. This may be accomplished with forty-five degree (45°) bends.
- (l) Lateral connection to existing sanitary sewer connection shall be made with saddle type connection consisting of stainless steel bands, cast iron flange and rubber gasket.
- (m) The lateral shall have five (5') feet horizontal separation from the water service for single-family dwellings. Under no circumstances shall the horizontal separation be less than the minimum requirements of the plumbing sub code adopted by the Township of Deptford.
- (n) For townhouses, the minimum separation between the water service and sanitary sewer shall be five feet (5') minimum at the shutoff/cleanout location. The lot width shall be designed accordingly to accommodate this separation as well as three feet (3') from property line and driveway width.

14.8 Testing

- (a) An infiltration test must be performed where groundwater is entering the sanitary sewer system. The MUA Engineer will outline the test procedures. Minimum test for eight-inch (8") pipe will be 3.5 psig for 5.5 minutes. Test to be modified based on pipe size and groundwater depth.
- (b) An ex-filtration test (air test) must be performed in the presence of the MUA Engineer.
- (c) A pipe alignment test to include a lamp test and mandrel test must be performed in the presence of the MUA Engineer.

14.9 Force Mains

- (a) All force main pipe must be Ductile Iron epoxy lined.
- (b) All bends must have concrete thrust blocks.
- (c) All ninety degree (90°) bends must be tie-rod ten (10) feet in each direction. Any short direction changes must be tie-rod.
- (d) All force mains installed is subject to a two (2) hour hydrostatic pressure test at 1

½ times the working pressure of the pumps or 150psi.

- (e) Residential force main connection to gravity lateral with cleanout.
- (f) Force main shall connect to a gravity lateral with cleanout at surface for inspection.
- (g) Force main shall not connect directly into sanitary sewer main.

14.10 Polyvinyl Chloride (PVC) Sewer Pipe

- (a) Polyvinyl Chloride pipe shall be made of PVC plastic having a cell classification of 12454-B or 12454-C or 13364-B (with minimum tensile modulus of 500,000psi) as defined in ASTM Specifications D-1784. Fittings shall be made of PVC plastic having a cell classification of 12454-B, 12454-C, or 13343-C as defined in Specification D1784. Compounds that have different cell classifications because one or more properties are superior of those of the specified compounds are also acceptable.
- (b) All fittings shall utilize rubber gasket joints, the rubber gaskets complying in all respects with the physical requirements specified in ASTM F-477, D-1869, C-361 or C-443.
- (c) The pipe and fittings shall be homogeneous throughout and free from visible cracks, holes, foreign inclusions, or other injurious defects. The pipe shall be as uniform as commercially practical in color, opacity, density and other physical properties.
- (d) PVC equal.
- (e) The minimum size of sewer mains shall be eight inch (8") diameter. A minimum cover of three (3') is required for all sewer lines to be installed.

Section 15 Related Technical Standards - Water

15.1 Water Mains

- (a) All work must be installed in accordance with AWWA C-600 standards.
- (b) Water mains and sewers generally shall be separated by a horizontal distance of ten feet (10'). If such lateral separation is not possible, the water main and sewer main must be in separate trenches, with the sewer at least eighteen inches (18") below bottom of water main.
- (c) The use of eight inch (8"), twelve inch (12") or sixteen inch (16") diameter mains as a standard are pre-approved by the MUA.
- (d) Water mains shall be laid in the loop system to eliminate dead ends. Dead ends, if unavoidable, must have a fire hydrant for flushing purposes.

15.2 Ductile Iron Cement Lined Pipe and Fittings

- (a) The exterior of the ductile iron pipe shall be covered with an asphaltic, epoxy-type coating. In aggressive soils, ductile iron pipe wrapped in polyethylene in accordance with ANSI/AWWA C105/A21.5 shall be used.
- (b) Water mains shall be ductile iron, minimum class 52, cement lined, push on Tyton "O" ring gaskets or mechanical joint, conforming to AWWA C-151, AWWA C-104, and AWWA C-111.
- (c) Fittings shall be cast or ductile iron cement lined mechanical joint with Meg-a-Lug retaining flanges or approved equal.
- (d) Water Main offsets shall not be utilized without the approval of the authority engineer. Every effort shall be made to coordinate utility construction so as to avoid the need for offsets in the water main.

15.3 Gate Valves

- (a) Valves shall conform to the requirements of the AWWA Specifications there for, as amended and revised to date.
- (b) Valves shall be resilient seat type. They shall be designed for 200psi working water pressure and have mechanical joint ends. Valve stems shall be the non-rising type unless otherwise specified. Valves shall be operated by a two (2) inch square wrench nut and shall open in the counterclockwise direction. The direction of opening shall be marked on the nut by an arrow and the word "OPEN."
- (c) Valves shall be American-80 "CRS" Resilient, Epoxy-lined Gate Valve as manufactured by American Valve and Hydrant Co., Mueller 2360 Series as manufactured by the Mueller Company, or approved equal. Thin walled or reduced wall valves will not be deemed an equal. A valve shall be installed on each side of a tee or cross fitting.

- (d) Valves shall be supported with concrete block and installed with Mega-Lug retaining flanges or approved equal.
- (e) All Cast iron surfaces of the valves shall be painted with three (3) coats of asphaltum paint.

15.4 Valve Boxes

- (a) Valve boxes shall be cast iron, two pieces, 5 1/4" sliding type, American made as manufactured by Bingham & Taylor, or approved equal.
- (b) Valve boxes shall be complete with covers and both valve box and cover shall be of ample strength and dimension to fully sustain the shocks of heavy vehicular traffic and to maintain the upper section and cover at proper grade under heavy vehicular traffic.
- (c) Covers shall have the word "WATER", an arrow showing the opening direction, and the word "OPEN" clearly cast thereon.

15.5 House Connections

- (a) Materials for house service connections from the main to one (1') foot inside of the curb line shall be copper type K Buffalo Style or approved equal with a minimum size of 3/4". The curb stop and box shall be installed and be of a type approved by the Authority. Buffalo style American made.

15.6 Fire Hydrants

- (a) All new fire hydrant installations serving the Deptford Township Municipal Utilities Authority system shall be fed from an eight (8") water line.
- (b) The height of the nozzle of any fire hydrant shall be a minimum of eighteen (18) inches and no more than twenty-four (24) inches from grade level to the center of the steamer cap.
- (c) Fire hydrants shall conform to the requirements of Deptford Township.
- (d) Hydrants shall be cast or ductile iron bronze mounted, compression type with 5 1/4" valve opening, six (6") inch inlet connection styled to accomplish approved joint assembly with a six (6") inch branch, two (2) 2 1/2" National Standard Fire Thread (NSFT) and one (1) 4 1/2" NSFT steamer (pumper) connection retrofitted with a five (5") inch Storz fitting, Harrington Fitting #HPHA50-45NH, equipped with Cap #HBC-50 or approved equal. Retrofitted Storz fitting shall be equipped with locking setscrews. Operating nut shall be a pentagon shaped National Standard details. Stuffing box shall incorporate "O" Ring Seals, asphaltum coating exterior below ground line, two (2) finishing coats of paint on above ground line exterior, with the final coat to be color as directed by the Engineer. Hydrant shall have breakable flange and stem coupling and be suitable for a working pressure of 150 psi. A minimum two feet by two feet by four-inch (2' x 2' x 4") concrete pad must be installed at base of each fire hydrant to ensure

breakaway. If placed between curb and sidewalk, pad shall extend between curb and sidewalk. Hydrant must be thrust blocked and installed with retaining flanges. Bleeder holes of fire hydrant must be covered with four (4) cubic feet of 3/4" crushed stone to provide drainage.

- (e) Hydrants shall be of a suitable length for a trench five (5') feet deep, measured from the surface of the ground to the bottom of the connecting pipe.
- (f) Hydrants shall be equipped with a two (2) piece outer casing which will permit its extension without excavating in case of future grade changes. The casing shall have a free vertical travel of not less than four (4") inches.
- (g) Hydrants shall be Mueller Supercenturion Model #250 A423, Waterous Pacer Model 250, American Darling B-62-B, or approved equal. Further, the hydrant type shall be the same as now in use by the Authority.
- (h) Hydrants must be covered with a burlap bag until system has been approved.
- (i) Hydrant locations must be approved by the Deptford Township Fire Marshall in writing, and a copy of the approval shall be provided to the Authority.
- (j) Fire Hydrants shall be Mueller Supercenturion Model #250 A423, Waterous Pacer Model 250, American Darling B-62-B, or approved equal. Further, the hydrant type shall be the same as now in use by the Authority.
- (k) Fire hydrants shall be painted in accordance with the following schedule:
 - 12" and larger water main – MAB Precaution Blue #0745018
 - 8" – MAB Safety Green #0746321
 - 6" – MAB Autumn Orange #0743391
 - Base of hydrant shall painted with MAB Caution Yellow #0743261

15.7 Water Services

- (a) Type "K" copper, flared type shall be used up to and including one inch (1") in diameter. For 1 ½" to 2" services, copper or copper sized black poly pipe with S.S. inserts with Mueller compression fittings to be used. Copper tracing wire must be installed with all non-metallic water services.
- (b) For services over two inches (2"), ductile iron cement lined pipe class 52 shall be used. The minimum service size shall be 3/4".
- (c) Service from the water main to the curb stop, and the property, shall be one piece and be laid in a straight line at right angles to the curb line, within the building limits of the structure to be served, and shall be at least four feet (4') below the surface of the ground, when final grading has been completed.

The water service shall have five (5) feet horizontal separation from the sanitary sewer lateral for single-family dwellings. Under no circumstances shall the

horizontal separation be less than The Minimum requirements of the plumbing sub code adopted by the Township of Deptford.

For townhouses, the minimum separation between the water service and sanitary sewer shall be five feet (5') minimum at the shutoff/cleanout location. The lot width shall be designed accordingly to accommodate this separation as well as three feet (3') from property line and driveway width.

Shutoff valves shall not be installed in driveways or sidewalks. Shutoff valve box shall be placed within two feet (2') of the curb or edge of paving.

- (d) No water service line shall be laid in same trench with gas pipe, sanitary sewer lateral, or any other facility or any public service company, nor within three feet (3') of any open excavation, vault, cesspool or septic tank; nor shall the location be in conflict with any sidewalk or driveway or be subject to vehicular traffic.
- (e) All services must be tapped at water main with Mueller Corporation Type H 15000 (3/4" through 2") or approved equal. Taps must be located at 10:00 or 2:00. Ball curb valve to be Mueller 300.
- (f) The water main shall be tested after installation of water services.
- (g) Water meters shall be installed for each house in accordance with Deptford Township Municipal Utility Authority's Rates, Rules and Regulations. The meter shall be Radio Frequency type for billing purposes.
- (h) All fittings must be Mueller or Ford, flared type or Mueller Compression type.
- (i) Curb box to be marked with a "W" saw cut on top of curb.
- (j) For commercial buildings, an Ames Silver Bullet Series 3000-SS detector check valve or equal equipped with bypass meter in gallons should be installed by the owner on the fire service line inside the building.

METER SIZES AND REQUIREMENTS FOR TOTAL GALLONS PER MINUTE (gpm) AND TOTAL METER UNITS

Flow gpm	No. of Units	Meter Required		Alternate Meter Required	
		No.	Size	No.	Size
20	1		5/8" x 3/4"		
30	1 1/2		3/4"		
50	2		1"	2	3/4"
51-100	3		1 1/2"	2	1"
101-150	4		2"	2	1 1/2"
151-250	5-8		2"	2	1 1/2"
251-350	8-14		3"	2	2"
351-550	14-22		4"	3	2"
551-750	23-30	2	3"		
751-1150	30-46	3	3"	1	6"
1151-1350	46-54	4	3"		
1351-1700	54-68	3	4"		
1701-1800	68-72	6	3"	2	6"
1801-1900	72-76	6	3"	2	6"
1901-2000	76-78	2	6"	4	4"
2001-2300	78-90	1	8"	4	4"
2301-2500	90-98	1	8"	5	4"
2501-2750	98-108	5	4"		
2751-3200	108-126	3	6"	6	4"
3201-3700	126-144	7	4"		
3701-3800	144-150	4	6"	8	4"

Service size subject to review and approval by the Township Building Code Official.

- (k) Where multiple units are served in a commercial building, one (1) master meter will be installed for single account billing. The owner of the building may install sub-meters at each unit for his/her use only. Owner shall supply and install commercial meter.

One (1) separate irrigation meter may be installed per project, inside of commercial building, for billing purposes of irrigation water only.

15.8 Thrust Blocks

- (a) All bends in the water main must have 4,000 p.s.i. concrete thrust blocks.
- (b) Concrete must be cured for at least seven (7) days prior to the water main being filled and pressurized.
- (c) Where concrete thrust blocks have been cast with high early strength concrete, the water main can be filled after thirty-six (36) hours.

15.9 Testing

- (a) All water mains are subject to a two (2) hour hydrostatic pressure test at 150 psi
- (b) Bacteria Test
 - 1. After flushing has been completed and the free chlorine residual is not greater than 0.5 PPM, a bacteriological sample shall be taken in accordance with the New Jersey Department of Environmental Protection Agency, Potable Water Standards, Bulletin PW-10, December 1970.
 - 2. Copies of the analysis must be sent to Engineer directly from a New Jersey DEP certified laboratory.

15.10 Disinfection

- (a) All water mains must be chlorinated in accordance with AWWA C-651 standards.

15.11 Pipe Bedding

- (a) Where groundwater is encountered, a six-inch (6") thick 3/4" clean crushed stone bed must be provided.

15.12 Pipe through Walls

- (a) Wall pipes or wall sleeves must be used where ductile water main passes through concrete walls or meter vaults, large valve pits, or concrete walls of meter vaults, large valve pits, or concrete building foundation walls to eliminate a rigid connection between the pipe and wall.

15.13 Pipe Crossings

- (a) Where water main crosses with any storm sewer, sanitary sewer, or force main, there shall be eighteen inches (18") of vertical clearance between pipes. Where eighteen inches (18") of vertical clearance cannot be met the pipes shall have no less than twelve inches (12") of vertical clearance. However, where less than 18" of vertical clearance is provided the water main shall be constructed with flange pipe and tie rodded for a distance of not less than 10' in each direction of the crossing and Meg-A-Lug restraints shall be used to connect to proposed water main piping.
- (b) Where water main crosses under any sanitary sewer or force main, the sanitary main

must be encased with concrete ten feet (10') in each direction.

- (c) Where sanitary sewer main crosses with any storm sewer or force main, there shall be eighteen inches (18") of vertical clearance between pipes. Where eighteen inches (18") of vertical clearance cannot be met the pipes shall have no less than twelve inches (12") of vertical clearance.
- (d) Where sanitary sewer laterals cross over water mains with less than twelve inches (12") of cover, DIP (Ductile Iron Pipe) shall be used for the lateral. Water main off-sets will not be allowed for accommodation of proposed lateral(s).

15.14 Blow-offs

- (a) All blow-offs must be two inches (2") in diameter or larger. A two-inch (2") galvanized steel pipe with two-inch (2") gate valve and drain must be provided.
- (b) Blow-offs must have prior approval with Engineer before installation.
- (c) All blow-offs shall be on grade level in a street valve box with a 2" female coupling with brass plug-anti-seizing compound shall be utilized on plug threads.

15.15 Wet Taps

- (a) All wet taps must be installed with mechanical joint tapping sleeves manufactured by Waterous Series 2800, Mueller H-615, U.S. Pipe Model T-9, or approved equal.
- (b) Contractor must have wet tap sleeve approved by the Authority's Engineers 48 hours prior to installation. Shop drawing shall be submitted for approval.
- (c) Wet taps for A-C pipe to be Mueller H-619 or approved equal. A Mueller H-304 stainless steel tapping sleeve shall be used for "egg-shaped" ACP.

15.16 Retaining Flanges

- (a) All fittings, bends, valves, fire hydrants, and sleeves must be installed with Meg-a-Lug or approved equal retaining flanges.

15.17 Miscellaneous

- (a) Bell type repair clamps are not permitted to repair leaks. A solid sleeve must be installed.
- (b) Where new D.I.P. pipe is joined with asbestos cement pipe, a Dresser HYMAX, or approved equal, Transition Coupling must be installed.

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Section 16 Related Technical Standards - General

The work shall conform in all respects to the requirements of Standard Specifications of the New Jersey Department of Transportation as amended and revised to date.

16.1 Cement

Cement used shall conform to the following requirements of the ASTM as amended and revised to date.

- (a) Standard Portland Cement - ASTM Designation C-150, Type 1
- (b) High Early Strength Portland Cement - ASTM Designation C-150, Type 3
- (c) Air Entraining Agent shall be Vinsol Resin or Darex A.E.A.

16.2 Aggregates

Aggregates, both fine and coarse, shall conform to the requirements therefore of the New Jersey Department of Transportation Standard Specifications as amended and revised to date.

16.3 Water

Water shall be clean, fresh and free of oils, acids, salts, organic matter or other injurious substances.

16.4 Concrete

Unless otherwise provided, all concrete shall be air entrained having 4% to 7% of entrained air, and shall be produced by using Standard Portland Cement with additive or Air Entraining Portland Cement with or without additional additive as may be required. Except where otherwise specifically provided, concrete shall be Class A, B, C or D, as prescribed, proportioned as follows:

Class	Cement	Sand	Course Aggregate	Void Content
A	1	1.50	3.0	1.350
B	1	1.75	3.5	1.575
C	1	2.00	4.0	1.800
D	1	2.25	4.5	2.025

When the coarse aggregate has a percentage of voids above or below 45, the volume of coarse aggregate or sand, respectively, shall be decreased so that the volume of said voids will equal 90 percent of the sand volume. The volumes shall be measured when the materials are dry and loose, not when they are rodded or shaken.

Class "C" concrete shall be used for the construction of concrete cradles and Class "D" for the construction of thrust blocks. Batching and mixing equipment shall be of a size and type

suitable for work to be done and shall be subject to the approval of the Engineer. The Class of concrete required for the various items of work shall be as shown on the plans or in the specifications.

16.5 Reinforcement Steel

Reinforcement steel shall be Grade 40, conforming to the requirements of either ASTM Designation A-615 or ASTM Designation A-617.

16.6 Wire Mesh or Fabric

Wire mesh or fabric shall conform to ASTM Designation A-185 as amended and revised to date.

16.7 Concrete Block

Concrete block for the construction of manholes, inlets and catch basins shall conform to the requirements of the American Society for Testing Materials Specifications therefore, as amended and revised to date. Concrete blocks for manholes shall have the required radius and batter.

16.8 Brick

Brick shall be Grade MA conforming to the American Society for Testing Materials Specifications therefore, as amended and revised to date.

16.9 Mortar

Mortar shall be 1:2 cement-sand mortar.

16.10 Iron Castings

Iron Castings shall conform to the requirements of the American Society for Testing Materials Specification for gray iron casting as amended and revised to date, supplemented as follows:

Castings shall be boldly filleted and risers shall be sharp and perfect. The castings shall be true to pattern in form and dimension, free of pouring faults, sponginess, cracks, blow holes and other defects which affect their strength and value for the service intended. The bearing surfaces of frames, covers, and grates shall be fitted together so as to prevent rocking and the pieces match marked.

16.11 Ladder Rungs - Aluminum

Ladder rungs shall be fabricated of extruded aluminum alloy conforming to the current American Society for Testing Materials Specifications therefore and shall be subject to the approval of the Engineer.

16.12 Excavation and Earthwork

16.12.1 Limits of Excavation

Excavation shall be made to approved lines which shall be of sufficient width for forming the pipe joints. Trench widths shall be selected so that the backfill will not exceed the safe load on the pipe. In all cases, the trench sides shall be vertical from the bottom to 12 inches above the top outside diameter of the pipe. In general, the widths of pipe trenches shall not be wider than the outside diameter of the pipe barrel plus two (2') feet at the level of the top of the pipe, unless otherwise approved. Trench bottoms shall be trimmed by hand to provide firm bedding. The last 3 inches of depth for all pipe trenches shall be removed with pick and shovel to the proper lines and grades before placing foundation material and pipe.

Blasting for rock excavation will be permitted only on approval of methods, and in compliance with applicable State and local regulations.

16.12.2 Sheeting and Bracing

Where excavations are made with sides at greater than natural slope, sheeting and bracing shall be used of sufficient strength to sustain the sides of the excavations and to prevent movement which could in any way injure the work or diminish the working spaces sufficiently to delay the work. Sheeting shall be of a material that will not split while being driven. Sheeting and bracing shall conform to the requirements of the "Construction Safety Code" of the Bureau of Engineering and Safety of the New Jersey Department of Labor and Industry.

16.12.3 Dewatering

The Contractor shall provide, operate, and maintain satisfactory facilities and equipment including well points, with which to collect and pump all water entering excavations or other parts of the free of water until the work or structure to be built therein is completed. Water shall be discharged through pipe or gutters, or any other suitable artificial means to catch basins, watercourses, or ditches in such a manner as to avoid interference with business, pedestrian and vehicular traffic and so as to prevent damage to property.

16.12.4 Backfill

All backfill shall consist of a suitable selected and approved earth generally from storage of approved excavated soil, free from rejected organic matter, boggy, peaty, humus or other unsuitable material such as silt, rubbish, waste, ashes, or cinders. If sufficient suitable material for backfill is not available from the excavated material, as determined by the Engineer, the contractor shall procure elsewhere a sufficient quantity of suitable material and shall furnish and place such material. Nor frozen earth shall be used for backfill, and all stones more than one (1") inch in the largest dimensions shall be removed from acceptable earth of fill and backfill. Unsuitable or excess backfill material shall be promptly removed from the site.

16.12.5 Placing and Compacting Backfill

Backfill shall be made to the slopes, grades, and elevations required. Backfill shall be compacted, in an approved manner to a density at least equal to that of the adjacent undisturbed soil, so as to avoid future unequal settlement.

No backfill shall be placed until the structure has been inspected in place and approved. Backfilling shall be carried out as soon as possible after such approval.

Trenches shall be backfilled from the top of the foundation material to a depth of not less than twelve (12") inches over the pipes using only bank run sand and gravel. Such material shall be uniformly placed on each side of the pipe in six (6') inch layers, wetted as required, and firmly compacted by approved tamping machines. Care shall be taken not to damage the pipe. After a compacted coverage of twelve (12") inches has been made, the remainder of the trench shall be compactly filled in an approved manner of eighteen (18") inch lifts.

The bank run sand or gravel must be compacted after sprinkling with water to obtain optimum moisture content. Final in-place density must be at least 90 percent of the maximum density obtainable with the material used, as determined by AASHTO Designation T 99 Compaction and Density Tests, using Method "C".

16.12.6 Foundation Material

Foundation material used for pipe bedding, from a distance below the pipe invert to the lower quarter point of the pipe, shall be bank run sand and gravel or crushed stone. Pipe embedment material from the lower quarter point to twelve (12) inches above the top of the pipe shall be bank run sand and gravel.

Bank run sand and gravel shall conform to the requirements of the New Jersey Department of Transportation, 1968 Revisions Standard Specifications for Type 1, Class A bank run sand and gravel, while crushed stone shall conform to the requirements of the New Jersey Department of Transportation Standard Specifications, Division 8, Section 8.1, Type 1, Class B. Frozen and lumpy material shall not be used.

All foundation material shall be placed and compacted as directed and approved by the Engineer.

16.13 Pipe Laying and Installation

All pipe and fittings shall be installed to the lines and elevations shown or ordered, and in accordance with the manufacturer's recommendations.

Suitable tools and equipment shall be used for proper handling, storing, laying pipe and fittings. In order to avoid damage to the interior coatings of pipe, lifting hooks or bars shall not be inserted therein. Each pipe and fitting shall be checked for defects and injuries as laying proceeds. Imperfect pipe materials shall be rejected and removed from the work. Pipe found to be defective after installation shall be removed and replaced with undamaged material.

The interior of all pipes shall be cleaned of dirt, and other deleterious materials, and kept clean, as the next section of pipe is laid. During the progress of the work, the exposed ends of the pipe shall be provided with approved temporary covers fitted to the pipe, in order to prevent material from entering the pipe.

Where pipe must be cut to fit as closing pieces, such cuts shall be evenly and squarely made in a workmanlike manner with approved equipment. Injury to linings or coatings shall be satisfactorily repaired.

All pipes shall be laid in accordance with approved details. All pipes shall be laid on top of a layer of foundation material and the same material shall be carried up to a level four (4) inches from the bottom of the pipe. Where concrete cradles are used to support the pipe, foundation material will not be required. No solid blocking will be permitted under pipe. Joints shall be made in accordance with recommendations of the manufacturer.

16.14 Safety Compliance

All work performed for the Authority or in the Authority's jurisdiction shall comply with all OSHA and PEOSHA safety standards relating to but not limited to Trenching and Shoring, Confined Space Entry, Work Zone Safety and Personal Protective Equipment.

16.15 As-Built Plans

The applicant shall provide three (3) sets of as-built plans conforming to these "Minimum As-Built Requirements."

The as-built plan should include both the proposed information (crossed out where it has changed, but remaining legible) and the as-built information shown clearly and underlined

The applicant must also provide a disk or CD in AutoCAD format of the submitted plans. The plans must be submitted on a 24" x 36" sheet and should not generally exceed 30 x 42 inches in size with a scale of 1" = 100'. All text must be drawn clearly, and at a minimum size of 0.07" and a maximum size of 0.10".

The following information, where applicable, shall each be drawn on its own individual layer:

- Water mains
- Water services/curb stops
- Hydrants/valves/blow-offs/etc.
- Water main text
- Sanitary sewer mains
- Sanitary sewer laterals/clean-outs
- Sanitary sewer manholes
- Sanitary sewer text

- Storm drain pipes
- Storm drain manholes and inlets
- Storm drainage basins and swales
- Storm drain text

The plans must include that portion of the existing systems where the proposed system connects.

The plans must be signed and sealed by a New Jersey licensed land surveyor.

All elevations must be on the 1929 datum (a/k/a NGVD 29, NJGCS, USGCS, and USC & G datum).

As a minimum, the following survey information is required: depicting all proposed facilities and as-built information.

16.15.1 Storm Drainage:

- A. Pipes: Size, material, length, invert elevation, and direction of flow.
- B. Manholes: Rim elevation and invert elevation.
- C. Inlets: Type, grate elevation, and invert elevation.
- D. Headwalls and Flared End Sections: Location and invert elevation.
- E. Swales and Basins: Verify approved design configuration and elevation with contour lines and spot elevations at all breaks in grade. Verify that the design volume is provided for basins.
- F. Under drains: Size, material, length and direction of flow, cleanout locations, and invert elevations.
- G. Location of all easements and location of utility within that easement.
- H. All the above information shall be shown on plan drawing.

16.15.2 Water Mains:

- A. Pipe lengths between bends.
- B. Pipe diameter and pipe material
- C. All bend angles.
- D. The lid and top of nut elevation for all water valves.
- E. All hydrants and valves.
- F. All valve sizes shall be shown and valves and blow-offs shall be located using three (3) tie-down dimensions (i.e., measurement from a permanent object; catch basin, manhole, hydrant, edge of pavement, etc.).

- G. All curb stops for water service. Provide a station from the nearest downstream manhole to each curb stop and provide an offset from the curb to each curb stop. If this cannot be accomplished, then tie down similar to valve location method. Each curb stop shall be clearly identified denoting the townhouse, condominium, house, office, store, etc., that it services.
- H. All concrete cradles and encasements.
- I. Location of all easements and location of utility within that easement. The as-built pipe length between bends.
- J. All the above information shall be shown on a plan drawing.

16.15.3 Sewer Mains:

- A. As-built manhole rim and invert elevations and invert elevation of all pipes penetrating the manhole.
- B. As-built pipe diameter, pipe material, pipe lengths (measured from manhole centerline to manhole centerline), pipe slope, and flow direction arrows.
- C. All cleanouts for sewer laterals. Provide a station from the nearest downstream manhole to each lateral or cleanout. Provide an offset from the main to each cleanout.
- D. Any lateral left for a future connection shall have the pipe cover and three (3) tie-down dimensions taken at the end of the lateral (i.e., measurements from a permanent object; corner of house, catch basin, manhole, hydrant, edge of pavement, etc.).
- E. All as-built concrete encasements and concrete cradles shall be noted.
- F. Location of all easements and location of utility within that easement. Provide a minimum of two (2) tie dimensions from the utility to the easement line. A tie dimension shall be provided for all changes in direction and bends with stationing.
- G. All the above information shall be shown on a plan drawing.
- H. All sewer mains constructed in a new development shall be subject to cleaning, via jetting, and a televised investigation with an inclinometer to be performed by the applicant/developer at no cost to the DTMUA, and witnessed by the Authority engineer.
- I. Approval of the TV investigation is required prior to endorsement of certificate of occupancy.

16.15.4 Force Mains:

- A. Locate the force main using tie dimensions from the face of curb/edge of paving to the force main. A tie dimension shall also be provided for all changes in direction and bends with stations from nearest manhole.

- B. Location of all easements and location of utility within that easement. Provide a minimum of two (2) tie dimensions from the utility to the easement line. A tie dimension shall be provided for all changes in direction and bends with stationing.
- C. The as-built pipe length between bends.
- D. Approximate elevations at each bend and high point.
- E. As-built pipe diameter and pipe material.
- F. Manufacturer's data on air relief valves, gauges, and all valves location of all easements and location of utility within that easement. Provide a minimum of two (2) tie dimensions from the utility to the easement line. A tie dimension shall be provided for all changes in direction and bends with stationing.
- G. All non-metallic mains shall be marked with tracing wire and have access ports every 250 feet.
- H. All the above information shall be shown on plan drawing.

16.15.5 Pumping Stations:

- A. As-built plans shall be submitted and should include both the proposed information (crossed out where changed, but remaining legible) and the as-built information shown clearly. Show all valves, curb stops, yard hydrants, underground sewer manholes, wet-well, dry well elevations and water piping, gates, etc. All valves and curb stops must be tied down as described above for water valves.
- B. Ten (10) copies of manufacturer's operation and maintenance information shall be submitted for all installed equipment.
- C. All the above information shall be shown on plan drawing.

Section 17 Observation and Testing Of Installed Facility

17.1 Observation of Sewerage and/or Water Distribution System during Course of Construction

All construction of sewerage or water distribution systems shall be under the observation of the Engineer for the Authority, either directly or through inspectors under his/her supervision.

- (a) The Authority Engineer shall enforce compliance with the approved plans and specifications.
- (b) The Authority Engineer shall have the authority to have the work discontinued in the event of noncompliance.
- (c) The applicant shall also furnish the name of the occupant, the street address, and lot and block number two (2) weeks prior to request for certificate of occupancy from the Building Inspector in order that the wiring, meter installations and lateral inspections can be accomplished.

No certificate of occupancy will be granted without the approval of the Authority.

- (d) No sewer or water connections shall be made to the appropriate street main whether tested or not, unless under the observation of the Engineer for the Authority.

A temporary, leak proof bulkhead type 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 Engineer to remove same. Water mains shall be capped, plugged or valves closed and shall remain intact and unloosened until written permission is received from the Authority Engineer to remove same.

This permission will not be granted until each section of the sewer has been cleaned and flushed in a manner acceptable to the Authority's Engineer or water mains have been flushed and sterilized in a manner acceptable to the Authority Engineer.

17.2 Testing of Completed System

All sewers and water mains shall be subjected to either an infiltration, exfiltration or pressure test. Exfiltration tests shall be conducted in lieu of infiltration tests when the pipe has been laid above the groundwater level. The tests shall be performed between two manholes or as otherwise directed by the Engineer for the Authority and shall include all related sewerage including house connections.

The contractor shall furnish all labor, materials, and equipment necessary for the testing.

Exfiltration tests shall be under at least a four (4') foot head or a pressure corresponding to a head equal to the depth of the lower manhole of the section under the test.

An infiltration test should be performed in the late winter or early spring following construction.

Allowable infiltration or exfiltration shall not exceed a rate of 100 gallons per mile, per inch of diameter of sewer per 24 hours.

In order to ensure that there shall be no gushing or spurting streams entering the sewer, the Contractor shall be held responsible for water tightness of the line, shall satisfactorily repair all joints and other parts not sufficiently water tight and then shall make additional tests of the infiltration or exfiltration until the test results conform to the requirements given herein.

When individual or house connections are connected to sewer mains already tested, the individual or house connections shall be pressure tested prior to connection to the sewer main. Individual or house connections shall be pressure tested under a ten (10') foot head of water and shall be made tight from the point of connection at the main to the lowest cleanout in the building.

Water pressure tests should be made with pressure in excess of the normal anticipated water pressure.

17.3 Pressure Tests

17.3.1 Pressure during Test

After the pipe line has been laid, it shall be subjected to a hydrostatic test pressure as specified by the owner and as related to the normal operating pressure. Unless otherwise specified, the test pressure shall be 150psi. When local conditions, in the opinion of the Authority Engineer, are such that the trenches must be backfilled immediately after laying the pipe, preliminary pressure tests may be made after backfilling has been completed but before placement of permanent paving. Once base course is installed, final pressure test is required.

17.3.2 Time for Making Tests

Tests shall be made only after completion of partial or complete backfill, and at least thirty-six 36 hours after the last concrete thrust block has been cast with high early strength cement concrete or at least seven 7 days after the last concrete thrust block has been cast with standard cement concrete.

17.3.3 Duration of Pressure Test

The duration of each pressure test shall be two (2) hours unless otherwise directed by the Authority Engineer.

17.3.4 Procedure

Each section of pipe line shall be slowly filled with water, and the specified test pressure, measured at the point of lowest elevation, shall be applied by means of a pump connected to the pipe in a manner satisfactory to the Authority Engineer.

The pressure test for leakage of a force main shall be for two (2) hours duration and during

the test, the pressure shall not be permitted to fall below 140psi. Water added to the test section of pipe necessary to maintain the specified test pressure shall constitute leakage.

The maximum allowable leakage permitted for the force main shall be determined from the following formula:

$$\frac{L=SD\sqrt{P}}{133200} \quad \text{where}$$

L = Allowable leakage in gallons per hour

S = Length of pipe tested in feet

D = Normal diameter of pipe in inches

P = Average test pressure during the leakage test expressed in psi.

The pump, pipe connection and all necessary apparatus shall be furnished by the Contractor. The Contractor shall furnish all necessary assistance for conducting the tests. All tests will be witnessed by the Authority engineer or his/her designated inspector.

17.3.5 Expelling Air before Tests

During the filling of the pipe and before applying the specified test pressure, all air shall be expelled from the pipe line. To accomplish this, taps shall be made, if necessary, at point of the highest elevation, and after completion of the test, the taps shall be tightly plugged unless otherwise specified.

17.3.6 Examination under Pressure

During the test, all exposed pipes, fittings, and couplings will be carefully examined. If cracked or defective pipe fittings are found, they shall be removed and replaced by the Contractor with sound material. The test shall then be repeated until satisfactory to the Authority.

All exposed pipes, fittings, and joints shall be examined for leakage during the test. Should any test of a section of pipe line disclose joint leakage greater than that permitted, the Contractor shall, at his/her own expense, locate and repair the defective joints until the leakage is within allowable permitted limits.

17.4 Miscellaneous Requirements of Completed Water Systems

17.4.1 All fire hydrants shall be rodded.

17.4.2 All 90 degree bends are to be rodded in both directions with a minimum of a ten (10') foot rod.

17.4.3 All short sections of pipe where a direction change occurs shall be rodded.

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Section 18 Billing, Payments and Delinquencies

18.1 Rendering of Bills for Water and Sewer Service

A single bill for water and sewer services will be rendered monthly to each customer and shall be due and payable upon receipt.

Bills are payable at any office of duly designated pay agency of the Authority.

Water charges will be based on the monthly readings read prior to the printing of the bill. If the meter cannot be read, an estimated bill will apply and the customer's account will be charged with the estimated gallon usage.

Sewer charges are billed in advance for the month beginning with the billing date.

18.2 Payment Schedule

If a bill is not paid within thirty (30) days of the date of billing, an interest rate of 1 1/2% per month will be charged.

In case of a disputed bill terminating substantially in favor of the customer, the payment is due within ten (10) days of the termination of the dispute.

18.3 Fees

The fees for water and/or sewer initiation and/or termination are listed in Section 20 Fee Schedule.

All fees and payments shall be collected by the Clerks at the MUA offices. At no time will the Superintendent or Field Representative collect any fees or payments from the customer.

18.4 Delinquent Accounts

Any bill unpaid after thirty (30) days of the date of billing shall be classified as delinquent. Any bill which remains unpaid after a month and a half of the date of billing shall be subject to discontinuance of service after not less than five (5) days of written notice.

If service is discontinued for nonpayment of the account, it will not be restored until the turn-on fee (payable in cash) plus all unpaid charges are paid or satisfactory arrangements have been made for payment.

If the check used as payment on a shut-off notice is returned by the bank for insufficient funds, a processing fee will be charged against the account and the service will be discontinued immediately without further notice. No checks will be accepted after the cut-off date posted on shut-off notice. All payments need to be made in cash or money order.

Any unpaid balance of service charges and interest hereon shall be a lien against the property and action shall be initiated pursuant to the procedures specified under N.J.S.A. 40:14B-32 et. seq.

Notice of delinquent charges shall be given annually to the Tax Collector of Deptford Township thirty (30) days prior to the Township posting notice of publishing all delinquent taxes.

18.5 Discontinuance of Service

Service may, at the sole discretion of the Authority, be discontinued for any of the following reasons:

- (a) Misrepresentation in application.
- (b) Willful waste of water through improper or imperfect pipes.
- (c) Failure to comply with restrictions imposed pursuant to 18.8 Reserve Supply.
- (d) Use of water for any other property or purpose than that described in the application.
- (e) Tampering with any service pipe, meter, curb stopcock or seals, or any other appurtenance of the Authority.
- (f) Vacancy in excess of thirty (30) days (water only).
- (g) Nonpayment of any charge occurring under the application.
- (h) Refusal of reasonable access to the property for purpose of inspecting, reading, repairing, or removing meters.
- (i) Making, or refusing to sever any cross connection between a pipe or fixture carrying water from any other source.
- (j) Nonpayment of bills within time prescribed.
- (k) Violation of any rules of the Authority.

18.6 Renewal Service

Service will be renewed when the conditions under which such service was disconnected are corrected and upon payment of all accrued charges provided in the schedule of rates or rules of the Authority.

18.7 Continuing Obligation to Pay Service Charge

Upon connection of an improved and usable property to sewer and/or water, the obligation to pay the minimal annual service charge continues despite the failure to occupy the property or to use the sewer or water facilities, so long as the building or structure on the property is still available for use and the sewer and water facilities remain available.

18.8 Reserve Supply

The Authority shall have the right to reserve a sufficient supply of water at all times in storage, to provide for fire and other emergencies, or may restrict or regulate the quantity of water used by the customer in case of scarcity, or whenever the public welfare may so require.

Section 19 Responsibility for Service

It is agreed by the parties receiving public fire service, private fire service, or any other service, that the Authority does not assume any liability as insurer of the property or person, and that the Authority does not guarantee any special service, pressure, 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 person or property by reason of fire, water supply failure relating to water pressure or capacity.

When a prospective customer has made application for a new service or has applied for the reinstatement of an existing service, it shall be presumed that the piping and fixtures on the applicant's premises are in good condition. The Authority will not be liable in any event, for any accident, breaks, or leakage arising in any way in connection with the supply of water or failure to supply same, or the freezing of water pipes or fixtures of the customer, nor any damage to the property which may result from the usage of water supplied to the premises.

No water will be furnished to any premises where any possibility exists of the mingling of the water furnished by the Authority, with water from any other source. Nor will the Authority permit its mains or service pipes to be connected in any way to any piping, swimming pools, tank, vat or other apparatus containing liquids, chemical, or any other matter which flow back into the Authority's service pipes or mains, and consequently endanger the water supply.

Whenever any person, persons, firm or firms, partnership or partnerships corporation or corporations, or any combination thereof causes or has caused any damage to the water or sewer system or facilities of the said Authority, the party or parties causing such damage shall immediately notify the Authority of such damage. The said Authority shall have the right to repair such damage or have such damage repaired, and shall have the further right to recover the full cost and expense of such repairs, including, but not limited to, the standard charges for work performed by Authority employees, for materials, supplies and equipment used for such repairs from the party or parties causing such damage.

19.1 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, either orally, or in writing, and a record of such complaint will be kept by the Authority, noting the name and address of the complainant, the date, the nature of the complaint and the remedy.

19.2 Reasonable Access

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 using water and/or sewers, and for any other purposes which are proper and necessary in the conduct of the Authority's business.

19.3 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 Rates, Rules and Regulations.

19.4 Single Service Water Only

In instances where owners of existing properties make application for and are furnished only water service, all rules pertaining to water service must be complied with, and the charge for such service shall be as described in the Schedule of Rates.

19.5 Single Service Sewer Only

In instances where owners of existing properties make application for and are furnished only sewerage service, all rules applicable to furnishing sewerage service must be complied with, and the charge for such service shall be as described in the Schedule of Rates.

19.6 Emergency

A necessity may arise in the event of breakdown, emergency, or for any other unavoidable cause, the Authority shall have the right to cut-off the water supply temporarily, in order to make necessary repairs, connections, etc. The Authority will use reasonable and practical measures to notify the customer of such discountenances of service but the Authority shall not be liable for any damage or inconvenience experienced by the customer; or any claims against it at any time for interruption in service, lessening of the supply, inadequate pressure, poor quality of water, or for causes beyond its control. When the supply of water is to be temporarily interrupted, written notice will be given, when practicable, to all customers affected by the temporary interruption of service, stating the probable duration of the interruption, and also the purpose of the interruption.

19.7 Discharges

The discharge of any surface or subsurface waters directly or indirectly to the sanitary sewer system is prohibited. Under drain systems for foundation of buildings shall be connected to a storm drainage system approved by the Township Engineer. Further, under drain systems in municipal rights-of-way shall have separate cleanouts which shall not be in any appurtenance of the sanitary sewer system.

19.8 Mandatory Water and Sewer Connection

When the Authority provides for water or sewer to pass immediately adjacent to a property owner's boundary line and upon notice of the availability of water and/or sewer, said property owner shall make the necessary arrangements to tie in to the system provided for within 90 days of delivery of the written notice. Such written notice should be served by certified mail, return receipt requested.

19.8.1 Failure to Tie In

See Page 1-5 Deptford Township Ordinance Regulating and Providing the Construction of Sewer and Water Lines

19.8.2 Cost of Connection

The property owner shall be responsible for the cost of all tie-ins for water and/or sewer.

19.8.3 Required Connection

Only improved properties with structures for either habitation or commercial use such as retail stores, manufacturing or service centers, but not limited thereto, shall be subject to the Township Ordinance.

19.8.4 Connection or Lateral

The terms "connection" or "lateral" are intended to be used interchangeably and shall be the same as found in Section 1.3 Definitions.

19.8.5 Commencement Date of Service Charges

Unless the Authority shall determine otherwise in unusual cases, service charges for both water and sewer service for existing structures shall begin to accrue on either of the following dates:

- (a) The date of actual connection of the premises to the water or sewer system.
- (b) 30 days after issuance of a connection permit
- (c) The last date for mandatory connection of the water or sewer system in accordance with the ordinance Regulation and Providing for Construction of Sewer and Water Line Connection, etc. dated January 23, 1973.

With respect to future construction, service charges shall begin to accrue on the date of the issuance of a Certificate of Occupancy or settlement whichever occurs first.

19.8.6 Changes to Rates, Rules and Regulations

The Authority reserves the right to change or amend, from time to time, these Rates, Rules and Regulations and the rates for water and/or sewer service.

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Section 20 Fee Schedule

20.1 Connection of Water and Sewer Services

A connection charge shall be imposed for each water connection and each sewer connection in the following amounts:

	<u>WATER</u>	<u>SEWER</u>	
Effective March 1, 2016	\$2.440.00	\$2.085.00	(Resolution 33-2016)

Per domestic consumer unit or equivalent domestic consumer units in accordance with the following schedule, except where otherwise noted:

All residential meters and electronic reading devices (ERT's) will be furnished by the Authority upon payment of a fee equivalent to the cost of the meter and ERT. Residential meters and ERT's shall be installed by the Authority and shall remain accessible at all times. Industrial/Commercial meters and ERT's shall be purchased by the customer per Authority requirements and inspected by Authority personnel after installation by the customer. Industrial/Commercial meters will remain the property of the customer and shall be accessible at all times.

20.2 Sewer Service Charge per Month

Effective May 1, 2020 Resolution 45-2020

For each billing unit there will be flat availability charge of \$39.00 per month.

For Schools and any 1" or larger commercial meters, an additional charge based on water consumption in excess of 9,999 gallons per month is charged as follows:

<u>Per 1,000 Gallons</u>	<u>Rate</u>
10,000 to 15,999	\$ 4.65
16,000 to 20,999	\$ 5.45
21,000 and over	\$ 6.55

Rates for customers with Industrial Pretreatment requiring G.C.U.A. permits minimum monthly
 for the first 20,999\$ 103.15
 21,000 gallons and over (per 1,000 gallons)\$ 6.55 (per 1,000 gallons)

Senior, disabled veteran and disabled citizen rates for qualify Deptford residents are 50% off monthly minimums. For inquiries regarding discount qualification, please contact for the Deptford Township Tax Assessor's office.

20.3 Charges for Water Meter Services

Effective May 1, 2020 Resolution 45-2020

The monthly minimum residential water is \$19.00 for up to 3,999 gallons

Size of Meter	Monthly Minimum Base Charge	Consumption Allowance per Month in Gallons
5/8" or 5/8" x 3/4"	\$19.00	3,999
3/4"	\$23.80	4,999
1"	\$28.60	5,999
1 1/2"	\$44.70	8,999
2"	\$86.60	16,999
3"	\$161.80	30,999
4"	\$229.25	40,999
6"	\$484.70	80,999
8"	\$1,024.65	160,999

Discount Meter Rate

Size of Meter	Monthly Minimum Base Charge	Consumption Allowance per Month in Gallons
*5/8"	\$9.50	3,999
3/4"	\$11.90	3,999
**Youth Center	\$0.00	0

*Senior, disabled veteran and disabled citizen rates for qualified Deptford residents are 50% off residential monthly minimums. For inquiries regarding discount qualification, please contact for the Deptford Township Tax Assessor's office.

**The charges for water services for any non-profit, Deptford Township public youth, Deptford Township public recreational group, Deptford Township public park or Deptford Township public senior facility using Township-owned land, shall be based totally on consumption at the rate of the current excess rate. Monthly sewer charges will also apply. To be eligible, the water must be used for the youth group and for its recreational and administrative activities.

20.4 Excess Water Usage Rate

Effective May 1, 2020 Resolution 45-2020

In addition, excess water usage over the minimum monthly amounts will be billed at the rate of \$4.60 per 1,000 gallons per month.

20.5 Fire Service Charges

The charges for fire service are:

Public Fire Service

Annual Fee for all fire hydrants in system \$50,000.00

There shall be no charge for water used for firefighting purposes from a public fire hydrant.

Private Fire Service

For each private fire hydrant connected to a service line. \$125.00 per annum.

All fire service mains are to be equipped with detector check valves.

Effective May 1, 2020 Resolution 45.2020

For 3/4 inch connection \$14.95 per month

For 2 inch connections \$25.00 per month.

For 3 inch connections \$36.35 per month.

For 4 inch connections \$43.20 per month.

For 6 inch connections \$79.50 per month.

For 8 inch connections \$145.50 per month.

Bills will be rendered on a monthly basis. Any bill not paid within the 30 day grace period will be classified as delinquent and interest charged at 1 ½% per month will be assessed from the billing date. Upon, such delinquency, the water service shall be shut off and notice of same sent to the customer.

A turn-on charge of \$25.00 will be made each time it is necessary to turn a fire service on at the curb.

A signed application and agreement form accompanied by the prevailing connection fee (see 20.1 Connection of Water and Sewer Services on page 20-1) per each fire service connection.

20.6 Miscellaneous Charges

Search Fee: \$10.00 Water

\$10.00 Sewer

This charge will be imposed at settlement, regardless of if a full search is requested or not.

March 1, 2016 Resolution 33-2016

Return Check: \$25.00

20.7 Meter Service Charges

Effective March 1, 2016 Resolution 33-2016

Turn On Charge Residential \$25.00*

Turn Off Charge Residential \$25.00*

Bottom Plate Replacement \$35.00

Meter Spacer Replacement \$15.00

*charged for the turning on of a residential water service for meters of 3/4" or smaller due to a customer's request, delinquent bill, non-response to request for meter access, or tampering with the meter. All other turn off or on requests will be the actual costs incurred by the Authority, but shall not be less than \$25.00.

Commercial customers	\$25.00 plus \$8.00 per diameter inch of the meter size
Testing water meters ¾” or less	\$35.00
Testing meters over ¾”	Established by the Executive Director of the Authority

The costs of testing of any meters will be charged against the customer if the meter reading is within acceptable tolerances. In the event the meter is reading incorrectly, the cost of testing will be borne by the Authority.

A charge of \$50.00 per day will be imposed for the tampering or removal of a water meter or for the occupancy of a property prior to the installation of a water meter.

Final water readings:	<u>\$10.00</u> per occurrence
Meter Installation Fee:	<u>\$25.00</u> if a rescheduling of a meter installation appointment must be made due to non compliance of Authority procedures.

20.8 Special Application Hydrant Permit

A supply of water for building or other special purposes, except on a lot or premises already supplied with a metered water connection, must be specially applied for and fees paid as specified hereinafter

Application fee - \$50.00 per thirty (30) days together with a charge of \$4.00 per 1,000 gallons of water consumed as recorded on the meter.

Deposit on Authority owned meter - \$1,250.00 payment in order to utilize an Authority meter adapted for fire hydrant use. The payment shall be used as a deposit for the meter the application fee of \$50.00 per thirty (30) days together with a charge of \$4.00 per 1,000 gallons of water consumed as recorded on the meter will apply.

A minimum charge of \$400.00 for water usage of up to 100,000 gallons or any part shall be deducted from the meter deposit. A maximum of \$800.00 will be returned to the applicant upon return of undamaged meter and fire hydrant adapter. The costs of repairing the meter and fire hydrant adapter will be deducted from the deposit. The application expires in thirty (30) days and must be renewed for each successive thirty (30) days.

20.9 Application Fees Forms A, B, C, D, E, F

Form “A” Application

An application to report on the feasibility of extending public sewer and/or water and required recommendations and conditions for installation, determines the economic and technical feasibility of extending public sewer and/or water service to the municipal system.

Check should be made payable to the Deptford Township Municipal Utilities Authority.

Application Fee	Sewer - \$50.00
	Water - \$50.00
Review Fee	Sewer - \$600.00

account for professional reviews and inspections. In the event that such account becomes delinquent, and in the event that the applicant does not properly replenish such account within thirty (30) days of written notice from the Authority, then and in that event any and all permits and approvals shall be revoked until such time as such account is brought into compliance.

Form “D” Application

Application for Acceptance

Administrative Fees	Sewer - \$100.00
	Water - \$100.00

Form “E” Application

Application for Connection of an Individual Dwelling Unit into the Existing Authority System
Filing Fee

Sewer - \$50.00
Water - \$50.00

Inspection Fee

Sewer - \$75.00
Water - \$75.00

Inspection fees will be returned if connection into the M.U.A. system is not feasible

Review Fee \$200.00 for the Authority's professionals shall be paid at the time of the application fee.

Form “F” Application

Application for Construction of Commercial or Industrial

Filing Fee	Sewer - \$100.00
	Water - \$100.00

Review Fee \$2,000.00 for the first 5,000 square feet or any portion thereof and \$500.00 for each additional 5,000 square feet or any portion thereof with a minimum review fee of \$2,000.00

Inspection Fee 5% of the total sewer construction costs, as verified by the Authority Engineer with a \$2,500 minimum

20.10 Attorney Fees

Resolution 39-2011

In accordance with N.J.S.A 40:14B-74 the following fees shall be the minimum amounts charged for services rendered by the Deptford Township Municipal Utilities Authority in-

house Solicitor:

Receipt and review application	\$38.4 - based on \$96 per hour in accordance with N.J.S.A 40:14B-74
Receipt and review Performance Guaranty	\$48 - based on \$96 per hour in accordance with N.J.S.A 40:14B-74
Letter accepting Performance Guaranty	\$48 - based on \$96 per hour in accordance with N.J.S.A 40:14B-74
Receipt and review Maintenance Guaranty	\$48 - based on \$96 per hour in accordance with N.J.S.A 40:14B-74
Letter accepting Maintenance Guaranty	\$48 - based on \$96 per hour in accordance with N.J.S.A 40:14B-74
Receipt and review of Guaranty Rider	\$28.8 - based on \$96 per hour in accordance with N.J.S.A 40:14B-74
Letter accepting Guaranty Rider	\$38.4 - based on \$96 per hour in accordance with N.J.S.A 40:14B-74
Receipt and review initial engineer review letter with review of file	\$67.2 - based on \$96 per hour in accordance with N.J.S.A 40:14B-74
Receipt and review engineer review letter – subsequent with review of file	\$76.8 - based on \$96 per hour in accordance with N.J.S.A 40:14B-74
Resolution accepting Form “A” Application	\$76.8 - based on \$96 per hour in accordance with N.J.S.A 40:14B-74
Resolution accepting Form “B” Application	\$76.8 - based on \$96 per hour in accordance with N.J.S.A 40:14B-74
Resolution accepting Form “A” and “B” Application	\$96 - based on \$96 per hour in accordance with N.J.S.A 40:14B-74
Resolution accepting Form “C” Application	\$76.8 - based on \$96 per hour in accordance with N.J.S.A 40:14B-74
Resolution accepting Form “D” Application	\$76.8 - based on \$96 per hour in accordance with N.J.S.A 40:14B-74
Resolution accepting Form “F” Application	\$76.8 - based on \$96 per hour in accordance with N.J.S.A 40:14B-74

Receipt and review engineer recommendation for payment with attachments	\$67.2 - based on \$96 per hour in accordance with N.J.S.A 40:14B-74
Receipt and review engineer letter with punch-list	\$67.2 - based on \$96 per hour in accordance with N.J.S.A 40:14B-74
Receipt & review engineer letter recommendation to release Performance Guaranty	\$67.2 - based on \$96 per hour in accordance with N.J.S.A 40:14B-74
Receipt and review engineer letter recommendation to accept project	\$96 - based on \$96 per hour in accordance with N.J.S.A 40:14B-74
Collection matters	billed based on \$96 per hour in accordance with N.J.S.A 40:14B-74
Guaranty default	billed based on \$96 per hour in accordance with N.J.S.A 40:14B-74
Telephone calls	\$19.2 - billed based on \$96 per hour in accordance with N.J.S.A 40:14B-74
Emails	\$19.2 - billed based on \$96 per hour in accordance with N.J.S.A 40:14B-74
Miscellaneous	All other matters billed based on \$96 per hour in accordance with N.J.S.A 40:14B-74

Section 21 Appendix A

21.2 Deptford Township Municipal Utilities Authority Construction Notes & Details