

**TYRONE TOWNSHIP  
ADAMS COUNTY, PA**

**RULES AND REGULATIONS  
SANITARY SEWER SYSTEM**

**Ordinance No. 2014-01**

AN ORDINANCE OF THE BOARD OF SUPERVISORS OF THE TOWNSHIP OF TYRONE, ADAMS COUNTY, PENNSYLVANIA, SETTING FORTH GENERAL RULES AND REGULATIONS FOR THE SANITARY SEWER SYSTEM; PROVIDING DEFINITIONS; SETTING FORTH RULES AND REGULATIONS REGARDING BUILDING SEWERS AND CONNECTIONS; PROVIDING RULES FOR CONNECTION, COVERING AND COMPLETION OF BUILDING SEWERS; SETTING FORTH PROHIBITED WASTEWATERS AND INDUSTRIAL WASTE DISCHARGES; SETTING FORTH REGULATIONS GOVERNING ADMISSION OF INDUSTRIAL WASTES INTO THE SEWAGE SYSTEM; SETTING FORTH RULES REGARDING ACCESS FOR INSPECTION; PROVIDING SPECIFICATIONS FOR THE INSTALLATION OF BUILDING SEWERS, GRINDER PUMPS, AND PRESSURE LATERALS; ESTABLISHING PLUMBING AND ELECTRICAL REQUIREMENTS; SETTING FORTH METHOD OF ASSESSING WASTEWATER CAPACITY; PROVIDING FOR SURCHARGES FOR SANITARY WASTES; PROVIDING RULES REGARDING A CHANGE IN ADDRESS, OWNERSHIP, OR TENANCY; PRESCRIBING REMEDIES AND PENALTIES FOR VIOLATIONS; PROVIDING FOR SEVERABILITY OF PROVISIONS; REPEALING ALL ORDINANCES OR PARTS OF ORDINANCES INsofar AS THE SAME SHALL BE INCONSISTENT HERewith; AND PROVIDING AN EFFECTIVE DATE.

 **WM. F. HILL & ASSOC., INC.**  
PROFESSIONAL ENGINEERS  
CIVIL ✧ MUNICIPAL ✧ ENVIRONMENTAL

207 Baltimore Street  
Gettysburg, Pennsylvania 17325

(717) 334 – 9137

## TABLE OF CONTENTS

	<u>PAGE</u>
SECTION I.....	1
Definitions.....	1
SECTION II.....	4
Building Sewers and Connections to the Municipal Sewer.....	4
Prohibited Wastewaters and Industrial Waste Discharges.....	6
Regulations Governing Admission of Industrial Wastes into the Sewage System.....	11
Access.....	14
Installation of Building Sewer.....	14
SECTION III.....	18
Wastewater Capacity Assessments.....	18
SECTION IV.....	21
Charges for Sanitary Wastes Having Certain Characteristics.....	21
Surcharge Formula.....	21
SECTION V.....	22
Enforcement.....	22
SECTION VI.....	22
Additional Provisions of these Rules and Regulations.....	22
SECTION VII.....	23
Exhibit I – Grinder Pump Unit / Pressure Sewer Lateral Detail.....	23
Exhibit II – Typical House Connection Detail.....	24

## **RULES AND REGULATIONS FOR THE SANITARY SEWER SYSTEM**

**WHEREAS**, the Board of Supervisors of Tyrone Township, Adams County, Pennsylvania has established sanitary sewer service within the Township; and

**WHEREAS**, it is necessary for the Township to establish rules and regulations for the sanitary sewer system.

**NOW THEREFORE**, be it enacted and ordained by the Board of Supervisors of Tyrone Township Adams County, Pennsylvania, as follows:

### **SECTION I**

#### **DEFINITIONS**

Definitions: Unless the context specifies and clearly indicates otherwise, the meaning of items and phrases pertaining to this Resolution shall be as follows:

- A. “Act 57 of 2003” means an amendment to the Municipality Authorities Act of 1945, signed into law.
- B. “Township” means Tyrone Township, a Pennsylvania Municipality.
- C. “Authorized Floor Drain” means a protected and trapped drain for the purpose of carrying off spent water (wastewater) from the basement of a dwelling, factory, laboratory, workshop, or other building, but excluding any drainage from rainwater, springs, wells, or other ground or surface water.
- D. “BOD” (Biochemical Oxygen Demand) means the quantity of oxygen expressed in mg/l, utilized in the biochemical oxidation of organic matter under standard laboratory procedure for 5 days at 20 degrees Centigrade. The standard laboratory procedure shall be found in the latest edition of *Standard Methods for the Examination of Water and Wastewater* published by the American Public Health Association.
- E. “Building Sewer Clean-out” means a clean-out on the building sewer just inside or outside the building wall through which the sewer may be cleaned. In the case of existing construction a clean-out shall be located on the Building Sewer.
- F. “Building Sewer” means the extension from the sewage drainage system of any structure to the Lateral of a Sewer.

- G. “Building Trap” means a device, fitting, or assembly of fittings installed on the building drain to prevent circulation of air between the drainage system of the building and the Building Sewer. In the case of existing construction, the Building Trap shall be located on the Building Sewer.
- H. “Commercial Establishment” means an establishment engaged in nonmanufacturing or nonprocessing business including but not limited to, stores, markets, office buildings, restaurants, shopping centers, theaters and institutional facilities, to include but not limited to schools, hospitals, retirement villages, nursing homes, and rehabilitation centers.
- I. “Dwelling Unit” means a building under one roof and occupied by one family or business; or
1. A combination of buildings in one enclosure or group and occupied by one family or one business; or
  2. One side of a double building or house having a solid vertical partition wall; or
  3. Each room or group of rooms in a building occupied or intended for occupancy as a separate business or as a separate living quarters by a family or other group of persons living together or by a person living alone; or
  4. Each apartment, office, or suite of offices in a building or house having several such apartments, offices, or suites of offices and using in common one or more hallways and one or more means of entrance; or
  5. Any trailer or mobile home occupied by one family or business; or
  6. Any other unit or category listed in the schedule of EDU’s set forth in Section III.
- J. “Grease Recovery Unit” means a device installed in the building sewer for the purpose of removing grease from the wastewater.
- K. “Grinder Pump” means a pump installed on a pressure lateral that reduces solids in the waste stream to a pumpable size.
- L. “Improved Property” means any property upon which there is erected a structure intended for continuous or periodic habitation, occupancy, or use by human beings or animals and from which structure Sanitary Sewage and/or Industrial Wastes shall be or may be discharged.

- M. “Industrial Establishment” means any room , group of rooms, building, or enclosure used or intended for use in the operation of one business enterprise for manufacturing, processing, cleaning, laundering, or assembling any product, commodity, or article, or from which process waste, as distinct from Sanitary Sewage, shall be discharged.
- N. “Industrial Wastes” means any and all wastes discharged from an Industrial Establishment other than Sanitary Sewage.
- O. “Inspection Tees” means a “Tee” fitting installed in a Building Sewer with a riser pipe and threaded plug which allows inspection of the Building Sewer.
- P. “Lateral” means that part of a Sewer System extending from a Sewer to the curb line, or if there shall be no curb line, to the property line, or if no such lateral shall be provided, then “Lateral” shall mean that portion of or place in a Sewer which is provided for connection of any Building Sewer.
- Q. “Owner” means any Person vested with ownership, legal or equitable, sole or partial, of any Improved Property.
- R. “Person” means any individual, partnership, company, association, society, corporation, or other group or entity.
- S. “pH” means the logarithm of the reciprocal of the concentration of hydrogen ions, expressed in grams per liter of solution, indicating the degree of acidity or alkalinity of a substance.
- T. “Plumbing Inspector” means the person or persons appointed by the Township to enforce the terms of these rules and regulations.
- U. “Sanitary Sewage” means normal water carried household and toilet wastes from any Improved Property.
- V. “Sewer” means any pipe or conduit constituting a part of the Sewer System used or usable for sewage collection.
- W. “Sewer System” means all facilities as of any particular time, for collecting, pumping, transporting, treating, or disposing of Sanitary Sewage and Industrial Wastes, owned or to be owned by the Township.
- X. “Storm Sewer or Drain” means a pipe or conduit which carries storm, surface water, drainage, and certain industrial waste discharges, such as cooling and air conditioning waters.

- Y. “Surcharge” means a charge assessed by the Township to treat a waste with concentrations of various pollutants in excess of those concentrations typical of a domestic wastewater.
- Z. “Suspended Solids” means suspended solids as determined pursuant to the procedure set forth in the latest edition of *Standard Methods for the Examination of Water and Wastewater* published by the American Public Health Association.
- AA. “Toxic Substance” means a substance which can have detrimental effects to living organisms when exposed to said substances.
- BB. “User” means any individual, partnership, company, association, society, corporation, or other group or entity that utilizes the Sewer System.

## SECTION II

### BUILDING SEWERS AND CONNECTIONS TO THE MUNICIPAL SEWER

- A. No person shall uncover, connect with, make any opening into or use, alter, or disturb, in any manner, any Sewer or the Sewer System without first making application for and securing a permit, in writing, from this Township.
- B. Application for a permit shall be made by the Owner of the Improved Property to be served or his duly authorized agent.
- C. No person shall make, or cause to be made, a connection of any Improved Property with a Sewer until such person shall have fulfilled each of the following conditions:
  - 1. Such person shall have notified the Township of the desire and intention to connect such Improved Property to a Sewer.
  - 2. Such Person shall have made application for and obtained a permit from the Township.
  - 3. Such Person shall have given the Township at least 24 hours notice of the time when such connection will be made so that this Township may supervise and inspect the work of connection and necessary testing.
  - 4. Such Person shall have paid to the Township any fee charged and imposed by the Township, as required under Section III of these Rules and Regulations.
- D. Each Improved Property shall be connected separately and independently with a Sewer through a Building Sewer. Grouping of more than one Improved Property on one Building Sewer shall not be permitted, except under special circumstances and for good

sanitary reasons, or other good cause shown, and then only after special permission of this Township, in writing, shall have been secured. Such grouping if permitted shall be subject to such rules, regulations, and conditions as may be prescribed by this Township.

- E. All costs and expenses of construction of a Building Sewer and all costs and expenses of connection of a Building Sewer to a Sewer shall be borne by the Owner of the Improved Property to be connected; and such Owner shall indemnify and save harmless the Township, from all loss or damage that may be occasioned, directly or indirectly, as a result of construction of a Building Sewer or the connection of a Building Sewer to a Sewer.
- F. A Building Sewer shall be connected to a Sewer at the place designated by this Township and where the Lateral is provided.

The invert of a Building Sewer at the point of a gravity connection shall be at the same or higher elevation than the invert of the Sewer, unless the connection is a pressure connection from a force main discharge, as approved by this Township. The connection of a Building Sewer to the Lateral shall be made secure and watertight.

- G. Every Building Sewer of any Improved Property shall be maintained in a sanitary and safe operating condition by the Owner of such Improved Property.
- H. Every excavation for a Building Sewer shall be guarded adequately with barricades and lights to protect all Persons from damage and injury. Streets, sidewalks, and other public property disturbed in the course of installation of a Building Sewer shall be restored, at the cost and expense of the Owner of the Improved Property being connected, in a manner satisfactory to this Township.
- I. If any Person shall fail or refuse, upon receipt of a notice of this Township, in writing, to remedy any unsatisfactory condition with respect to a Building Sewer, within 60 days of receipt of such notice, this Township may refuse to permit such Person to discharge Sanitary Sewage and Industrial Wastes into the Sewer System until such unsatisfactory condition shall have been remedied to the satisfaction of the Township.
- J. Where an Improved Property, at the time of connection to a Sewer, is required to be served by its own sewage disposal system or device, the existing house sewer line shall be broken on the structure side of such sewage disposal system or device and attachment shall be made with proper fittings, to continue such house sewer line, as a Building Sewer.
- K. No Building Sewer shall be covered until it has been inspected and approved by this Authority. If any part of a Building Sewer is covered before so being inspected and approved, it shall be uncovered for inspection at the cost and expense of the Owner of the Improved Property to be connected to a Sewer.

- L. Upon completion of the Sewer System connection, cesspools, sinkholes, septic tanks, or similar waste receptacles shall be abandoned. Such waste receptacles shall be entirely emptied of all their contents. The contents shall be disposed of in accordance with applicable regulatory requirements. Empty receptacles shall be completely filled with sand or noncompactable material or the tank may be dismantled (cover completely removed) and backfilled. Compliance shall be ascertained and enforced by the Plumbing Inspector at the sole expense of the Owner of said waste receptacle.

**PROHIBITED WASTEWATERS AND INDUSTRIAL WASTE DISCHARGES**

- A. No customer will discharge into the Sewer System any Industrial Wastes or commercial process water without first obtaining the permission of the Township to do so. All Industrial Wastes are subject to regulation by the Township and the Township reserves the right at its discretion to refuse connection to the Sewer System, or to compel discontinuance of the use of the sewers, or to compel pretreatment of Industrial Wastes by an industry.
- B. Except as otherwise provided in these Rules and Regulation, no person, partnership, corporation or other legal entity shall discharge or cause to be discharged any of the following described wastes or waters into the Sewer System:
  - 1. Any liquid or vapor having a temperature higher than 140 degrees Fahrenheit or heat in amounts which will inhibit biological activity at the Township's wastewater treatment facility resulting in interference.
  - 2. Any water or waste containing more than 100 mg/l of fats, tar, oils and/or grease.
  - 3. Any pollutant which will cause corrosive damage to the Sewer System or the Township's wastewater treatment facility.
  - 4. Any pollutant, including oxygen demanding pollutants (BOD, etc.) released in a discharge at a flow rate and/or pollutant concentration which will cause interference with the Township's wastewater treatment facility.
  - 5. Any trucked or hauled pollutants, except if approved by the Township and at discharge points designated by the Township.
  - 6. Any 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 or be injurious in any way to the Township's wastewater treatment facility. At no time, shall two successive readings on an explosion hazard meter, at any point in the system, be more than five percent (5%) nor any single reading over ten percent (10%) of the Lower Explosive Limits (LEL) of the meter. Prohibited materials include, but are not limited to, gasoline, fuel oil,



kerosene, naphtha, benzene, ethylbenzene, toluene, xylene, ethers, bromates, carbides, hydrides and sulfides and other substances which the Township, the Commonwealth or the E.P.A. has notified the User is a fire hazard or found to be detrimental to the treatment process.

7. Any noxious or malodorous gas or substance which, either singly or by interaction with other wastes, shall be capable of creating a public nuisance or hazard to life or of preventing entry into the Sewer System or the wastewater treatment facility for maintenance and repair or which may cause acute worker health or safety problems.
8. Any water or waste containing any solid wastes with particles greater than one-half inch (½”) in any dimension, resulting from preparation, cooking and dispensing of food and from handling, storage and sale of produce, which wastes commonly are known as garbage, which have not been ground by household type garbage disposal units or other suitable garbage grinder.
9. Any solids or viscous substances which may cause obstruction to the flow in the Sewer System or other interference with proper operation of the wastewater treatment facility such as, but not limited to: animal guts or tissues, paunch manure, bones, hair, hides or fleshings, feathers, entrails, whole blood, ashes, cinders, sand, spent lime, stone or marble dust, metal, glass, straw, shavings, grass clippings, rags, spent grains, spent hops, waste paper, strings, wood, plastics, gas tar, asphalt residues, residues from refining, or processing of fuel or lubricating oil, mud, or glass grinding or polishing wastes, dental floss, wool or other fibers.
10. Any water or waste having a pH (as determined by this Township) lower than 6.0 or higher than 9.0 or having any corrosive property capable of causing damage or hazard to structures or equipment of the Sewer System or the wastewater treatment facility or to personnel engaged in operation and maintenance thereof.
11. Any pollutants that are a hazardous waste pursuant to 40 C.F.R. Part 261 unless such pollutant is subject to the domestic sewage exemption under 40 C.F.R. § 261.4 (a) (1) (ii).
12. Any pollutant which causes pass through or interference.
13. Any water or waste containing any Toxic Substance, as defined below, in quantity sufficient to constitute a hazard to humans or animals or to interfere with any wastewater treatment process of the wastewater treatment facility or that will pass through the wastewater treatment facility in such condition so that it will exceed State, Federal or other validly existing requirements. Samples taken to determine the maximum allowable concentration shall be at the point of discharge to the Sewer System.

Toxic Inorganic Substances	Maximum Allowable Concentration
Aluminum (ionic form)	10.0 mg/l
Antimony	1.0 mg/l
Arsenic	0.1 mg/l
Barium	5.0 mg/l
Beryllium	1.0 mg/l
Boron	1.0 mg/l
Cadmium	0.02 mg/l
Chromium, total	1.0 mg/l
Copper	0.5 mg/l
Cyanide (total)	0.1 mg/l
Fluorides	1.5 mg/l
Iron	3.0 mg/l
Lead	0.05 mg/l
Manganese	3.0 mg/l
Mercury	0.002 mg/l
Nickel	0.5 mg/l
Selenium	0.1 mg/l
Silver	0.1 mg/l
Sulfate	360 mg/l
Tin	5.0 mg/l
Zinc	0.3 mg/l
Chromium (Hexavalent)	0.05 mg/l
MBAs (Detergent)	1.0 mg/l
Color (Platinum Cobalt Units)	75
Chlorides	250 mg/l
Methylene Chloride	0.2 mg/l

Toxic Organic Compounds / Pollutants	Maximum Allowable Concentration
Acrolein	0.2 mg/l
Acrylonitrile	0.2 mg/l
2,4-dinitrophenol	0.5 mg/l
2-methyl-4,6-dinitrophenol	0.5 mg/l
Alcohols (total)	25.0 mg/l
Phenols	0.001 mg/l
Chlorinated hydrocarbons (total)	2.0 mg/l
Pesticides and Herbicides (total)	0.1 mg/l
Benzidine	50.0 mg/l
Methylene blue	50.0 mg/l

Acetone	50.0 mg/l
Toluene	1.0 mg/l
Ethylbenzene	1.0 mg/l
Naphthalene	1.5 mg/l
Hexachlorobenzene	2.0 mg/l
Chloroform	0.1 mg/l
Total Toxic Organics (TTO)	2.0 mg/l

Upon the promulgation of the Federal Categorical Pretreatment Standards for a particular industrial subcategory, the Federal Standard, if more stringent than limitations imposed under these Rules and Regulations for sources in that subcategory, shall immediately supersede the limitations imposed under these Rules and Regulations. The Township shall notify all affected Users of the applicable reporting requirements under 40 CFR, Section 403.12.

14. Any water or waste containing total solids of such character and quantity that special or unusual attention or expense shall be required to handle such water or waste at the wastewater treatment facility.
15. Any wastewater containing an excess of 10 mg/l of total phosphorus (TP) unless approved by the Township under separate agreement. However, no total phosphorus (TP) discharges shall exceed 45 mg/l under any circumstances. See surcharge formula (Section IV H.).
16. Any wastewater containing an excess of 25 mg/l of ammonia nitrogen (NH<sub>3</sub>-N), unless approved by the Township under separate agreement. However, Total Kjeldahl nitrogen shall not exceed 40 mg/l under any circumstances. The total nitrogen shall not exceed a limit of 50 mg/l. See surcharge formula (Sect IV H).
17. Any wastewater containing radioactive wastes.
18. Any wastewater containing a biochemical oxygen demand (BOD) in excess of 250 mg/l, unless approved by the Township under separate agreement. See surcharge formula (Section IV H.).
19. Any wastewater containing a chemical oxygen demand (COD) in excess of 450 mg/l.
20. Any wastewater containing an excess of 250 mg/l by weight of suspended solid material, unless approved by the Township under separate agreement. See surcharge formula (Section IV H.).
21. Any wastewater volume (quantity) which will have a detrimental effect on the collection system, pumps, or treatment units.

- 22. Any wastewater containing dyes or other materials with objectionable color, that may affect the effluent quality and visual appearance.
- 23. Any substance prohibited by any permit issued by the Commonwealth of Pennsylvania.
- 24. Any storm water, either from street or gutter inlets or sump pumps or from roof or other rainwater connections, surface or subsurface water, exhaust water, steam or other unpolluted drainage.

C. Where necessary all Users shall install suitable pretreatment facilities, including grease recovery units, in order to comply with above regulations.

Plans, specifications, and other pertinent information relating to proposed facilities for pretreatment and handling of wastes shall be submitted for approval of this Township; and no construction of any such facility shall be commenced until approval has been obtained from the governmental body having jurisdiction.

Whenever facilities for pretreatment and handling of wastes shall have been provided by any Owner, such facilities shall be continuously maintained, at the expense of such Owner, in satisfactory operating condition and this Township shall have access to such facilities at reasonable times for purposes of inspection and testing.

D. Gas stations and garages are required to provide oil interceptors of the types Series GA, GX, GNC, GRC of Josam Manufacturing Company, Michigan City, Indiana, or equivalent, in the proper location, where the dangerous liquids are to be intercepted.

Restaurants or other commercial establishments as directed are required to provide a complete grease recovery unit, properly sized to handle anticipated flow rates as manufactured by Lowe Engineering Co., Thermaco, Inc. or equivalent.

E. No User shall increase the use of process water or, in any way, attempt to dilute a discharge as a partial or complete substitute for adequate treatment to achieve compliance with the limitations contained in the Federal Categorical Pretreatment Standards, or in any other pollutant - specific limitation developed by the Township or Commonwealth. (Comment: Dilution may be an acceptable means of complying with some of the prohibitions as set forth in this Section and approved, e.g. the pH prohibition. Such practices must receive written approval from the Township.)

F. Whenever a person, partnership, corporation or other legal entity is authorized by the Township and the appropriate governmental agencies to discharge any polluted water, domestic Sanitary Sewage, or Industrial Wastes containing any of the substances or possessing any of the characteristics referred to in Section II of these Rules and Regulations, such discharge shall be subject to the continuing approval, inspection,

and review of the Township. If, in the opinion of the Township, such discharges are causing or will cause damage to the Sewer System, or cause the Township to be in violation of the treatment or pretreatment agreement, the Township shall order the person, partnership, corporation or other legal entity causing such discharge to cease doing so forthwith, or to take other appropriate action to eliminate the harmful discharge.

- G. Sampling and Testing: Sanitary wastewater and/or Industrial Wastes being discharged into the Sewer System shall be subject to periodic sampling, inspection, and testing. Sampling, inspection, and testing shall be made by the Township as frequently as may be deemed necessary.

Basic testing normally associated with periodic monitoring shall be performed by the User in accordance with the treatment or pretreatment agreement. The User shall be financially responsible for all additional testing costs when any one parameter exceeds the allowable limit as established herein. A discharger shall be financially responsible for all testing costs when it has been deemed necessary to provide continued sampling and testing because of a discharger's non-compliance with these Rules and Regulations as contained herein.

- H. Nothing contained in this Section shall be construed as prohibiting any special wastewaters of unusual strength or character from being admitted into the Sewer System by the Township either before or after pretreatment. The Township's approval and an agreement will be required.

#### **REGULATIONS GOVERNING ADMISSION OF INDUSTRIAL WASTES INTO THE SEWAGE SYSTEM**

- A. No person shall discharge or cause to discharge into the Sewer System any Industrial Wastes except upon application to this Township and upon receipt of a written permit therefore by this Township.
- B. Required Survey Data. Any Person desiring to make or use a connection to the Sewer System through which Industrial Wastes shall be discharged into the Sewer System shall file with this Township an "Industrial Wastes Questionnaire", to be provided by this Township, which shall provide to this Township pertinent data, including estimated quantity of flow, characteristics and constituents, with respect to Industrial Wastes proposed to be discharged to the Sewer System.
- C. Control Manhole. Any Person who shall discharge Industrial Wastes into the Sewer System, when required by this Township, shall construct and thereafter properly maintain, at its own expense, a suitable control manhole and other devices as required by this Township to facilitate observation, measurement, and sampling by this Township of Industrial Wastes discharged to the Sewer System.

Any such control manhole, when required by this Township, shall be constructed at an accessible, safe, suitable, and satisfactory location in accordance with plans approved by this Township prior to commencement of construction.

- D. Changes in Type of Wastes: Any Owner of an Improved Property who is discharging or allows to be discharged wastewaters into the Sewer System and who contemplates a change in the operations, processes, or other activities conducted on such Improved Property that will alter the type of wastewater to be discharged into the Sewer System shall notify the Township, in writing, at least thirty (30) days prior to the consummation of such change.
- E. This Township reserves the right to require an Improved Property having large variations in rates of waste discharge to install suitable regulating devices for equalizing waste flows to the Sewer System.
- F. Where required by the Township, the User shall provide at its expense such pretreatment or handling as may be necessary to modify the objectionable characteristics or control the quantities and rates of discharge of such water or wastes as necessary to reduce BOD to 250 mg/l, suspended solids to 250 mg/l, and total solids to 600 mg/l, or modify the objectionable characteristics or constituents to come within the maximum limits provided for in these Rules and Regulations.

Plans, specifications, and any other pertinent information relating to proposed pretreatment or handling facilities shall be submitted for approval of the Township and no construction of such facilities shall be commenced until written approval is obtained.

Where pretreatment facilities are provided, they shall be maintained continuously in satisfactory and effective operation at the User's expense. The Township and/or its authorized representatives shall have continuous access to any pretreatment facilities for inspection. Operations of and discharge from said facilities shall be subject to the requirements of all applicable Federal, State, and Local codes, ordinances, laws, and regulations. Operation and testing data from the pretreatment facilities shall be submitted to the Township each week, or as determined by the Township.

Industrial Wastes being discharged into the Sewer System shall be subject to periodic sampling, testing, and inspection. The analysis of samples so obtained shall be the basis for computing additional charges in accordance with these Rules and Regulations.

All sample analysis shall be performed by a laboratory certified by the U. S. Environmental Protection Agency and in accordance with the latest edition of Standard Methods for the Examination of Water and Wastewater published by the American Public Health Association.

A normal sampling schedule including the analyses to be performed on the samples shall be included in the treatment or pretreatment agreement. The cost of this

sampling and testing shall be borne by the User and shall be shown as separate charges on the User's sewer bill.

The Township reserves the right to perform more frequent sampling and analysis at its own expense.

A User subject to periodic sampling may request that samples be taken in addition to the normal periodic samples taken by the Township. The cost of this sampling and analysis shall be borne by the User in addition to the costs for normal sampling and analysis.

- G. Industrial waste dischargers shall provide protection from accidental, unauthorized, and slug discharges of prohibited wastes or other substances regulated by the Rules and Regulations of Tyrone Township. The discharger shall provide a plan and facilities to prevent accidental or slug discharges of prohibited materials. Industrial waste dischargers shall report accidental spills immediately by notifying the Tyrone Township Office and the Tyrone Township wastewater treatment facility. Dischargers shall be financially responsible for operational expenses incurred by the Township resulting from accidental, unauthorized, and slug discharges.
- H. The Township reserves the right to refuse service or permission to connect to the Sewer System in order to prevent damage to the Sewer System, overload to the Township's wastewater treatment facilities, detrimental effect to the biological treatment process, and / or environmental consequences to the stream receiving effluent from the Tyrone Township wastewater treatment facility.
- I. Whenever a permitted User shall fail to comply with these Rules and Regulations regarding Industrial Wastes, the Township may revoke the User's permit and take whatever action is necessary to protect the Township's Sewer System and wastewater treatment facility including without limitation, capping the User's line and preventing the discharge into the Township's Sewer System.
- J. This Township reserves the right to impose surcharges in connection with any Industrial Waste discharged into the Sewer System by agreement with the Owner of the Improved Property.
- K. Enforcement: Any person, partnership, corporation or other legal entity who shall violate these Rules and Regulations shall be subject, upon summary conviction for a first offense and upon summary conviction for each subsequent offense, to a fine of not less than One Hundred Dollars (\$100) nor more than One Thousand Dollars (\$1,000), together with costs of prosecution in each case, and in default of payment of such fine shall be subject to imprisonment up to 90 days. Each day that a violation continues shall be deemed as a separate offense and shall be punishable as such. Each discharge of a substance in excess of the maximum allowable concentration shall also be deemed and shall be taken as a separate violation. In addition to the penalties provided herein, the Township may sue at

law or in equity to enjoin violations herein and in addition to damages may recover reasonable attorney's fees, court costs, court reporter's fees and other expenses of litigation by appropriate suit at law or in equity against the person, partnership, corporation or other legal entity found to have violated these Rules and Regulations, or the orders, rules, regulations, and permits issued hereunder.

### ACCESS

This Township or its representative (Plumbing Inspector) shall have the right of access at reasonable times to any part of any Improved Property served by the Sewer System as shall be required for purposes of inspection, measurement, sampling, and testing and for performance of other functions relating to service rendered by this Township through the Sewer System.

### INSTALLATION OF BUILDING SEWER

The Building Sewer shall be subject at all times to the inspection and approval of the Township or its duly authorized representative.

- A. Size - Building Sewers shall in no case be less than four inches in diameter. Where double or multiple homes are permitted to be served by a common line under a special connection permit issued by the Township, the double or multiple homes may be served by a four inch line, unless a larger line for the multiple homes connection is required by the Plumbing Inspector. An approved adapter connecting the Building Sewer to the Lateral must be used.
- B. Material - Pipe used for Building Sewers shall conform to the following:

Poly Vinyl Chloride (PVC) Pipe at least four inches in diameter and conforming to A.S.T.M. D-3034 (SDR-35) shall be utilized. Pipe joints shall conform with A.S.T.M. D-3213. All joints must be rubber O-ring. Pipes must be installed with a minimum slope of 2%. Special backfill is required to assure a compacted minimum density of 90% Proctor. (See Exhibit II)

New Underground Piping Passing Through or Under Buildings - New underground piping passing through or under buildings shall be Schedule 40 PVC. All PVC solvent welds shall be properly primed. The pipe shall have an inside diameter not less than four inches and shall extend a minimum of five feet on either side of the building foundation. Minimum pipe diameter passing through the wall shall be four inches. All pipe under concrete slabs shall be subject to the Township's inspection prior to backfilling and pouring of concrete.

Underground Piping Outside Buildings - The Building Sewer shall be SDR 35 PVC pipe with rubber gasket joints. All PVC joints shall be properly cleaned and lubricated. The pipe shall have a minimum inside diameter of four inches.



Owners wanting to connect the new building sewer to an existing Building Sewer, shall demonstrate to the Township the satisfactory condition of the existing Building Sewer through visual inspection and air testing. Approval to connect to the existing Building Sewer shall be noted on the connection permit. If the existing Building Sewer does not meet the Township's requirements for inspection and air testing, connection of the new Building Sewer shall be made as close to the existing building as possible. Connection of the new Building Sewer to the existing Building Sewer shall be made with approved transition fittings resulting in infiltration free construction.

Pipe shall be installed to prevent the admission of groundwater, shall be laid at a minimum grade of 2% with the best possible alignment, and shall have the maximum cover possible to protect the pipe from frost or crushing from surface activity.

No transition from one pipe size to another or from one pipe material to another shall be made without the use of manufactured adapters designed specifically for that purpose. All changes in direction shall be made with pipe fittings no greater than 45 degrees. Under certain conditions acceptable to the Township, sweep 90 degree bends may be used and shall be so noted on the connection permit.

- C. Pressure Lateral - The pressure lateral shall include a redundant check valve approved by the Township. This valve shall be located three feet from the curb stop. The pressure lateral shall be 1¼ inch SDR 21 PVC (200 psi) pipe with rubber gasket joints, buried a minimum of four feet. Thrust blocks shall be provided for all fittings and at all locations where horizontal and/or vertical deflections are made. Testing for pressure sewers shall be in accordance with manufacturer's guidelines.

Earth dams shall be provided in the pressure lateral trench for the purpose of stopping the natural flow of water. Earth dams shall be constructed at no greater than 50 feet intervals. All laterals shall have at least one earth dam per lateral. Earth dams shall be constructed from layers of compacted soil. The soil shall be placed by hand and compacted with tools designed for this purpose. As a minimum, the soil shall be placed and compacted in the following three layers:

- 1) at pipe bottom;
- 2) at pipe top;
- 3) 12 inches above top of pipe.

- D. Grinder Pump Unit - The grinder pump installed shall be a model E-1 grinder pump as manufactured by Environmental One Corporation of Schenectady, N.Y. or equivalent. The Grinder Pump unit location shall be approved by this Township prior to installation of same. The unit shall be installed in accordance with the Grinder Pump Detail as included in Section VII of these Rules and Regulations.

- E. Bedding Material Requirements for Sewer Pipe- All types of pipe shall be bedded with six inches of 1B stone or #8 stone and backfilled with 1B stone or #8 stone that is thoroughly compacted to a depth of at least 12 inches above the top of pipe.

From 12 inches over the pipe to the elevation of the subgrade, backfill material shall be placed in eight inch (8") uniform, even layers and each layer shall be carefully and thoroughly compacted by hand operated mechanical tampers. Backfill material within these layers may be placed by machine providing sufficient personnel are utilized to properly spread the material, to prevent the inclusion of objectionable material and attain complete compaction.

Backfill material from 12 inches over the pipe to subgrade shall be material removed from the trench with the exception that no organic material or rock larger than eight (8) inches shall be included in the backfill.

- F. Building Sewers shall be laid on a grade of not less than 2%, unless otherwise approved by the Township.
- G. Building Sewers must be as direct as possible. Changes in direction must be made with wyes and eighth bends or half wyes, or one eighth bends. Any 90 degree change in direction shall include a clean-out. Changes in size where the Lateral is connected to the Building Sewer shall be made only with fittings.
- H. Ditches shall be promptly backfilled after inspection and approval by the Plumbing Inspector. Care shall be taken to prevent damage to the pipe in backfilling and securing a well compacted and firm trench.
- I. On existing Improved Properties as distinguished from future properties to be improved, the Building Sewer shall be vented, trapped, and a clean-out and inspection tee placed on the line beyond the building. See detail in Section VII.
1. Vents - Except those properties that are properly vented, a vent shall be placed along the house sewer line at a location acceptable to the Plumbing Inspector. Vent risers shall extend a minimum of twelve (12) inches above the ground surface and shall be capped with a mushroom vent or double bend. Vents shall be at least four (4) inches in diameter.
  2. Traps - Each building shall be provided with a main building trap. The trap may be located wherever possible within the cellar of the building or immediately outside the building wall. Note: The vent should be placed upstream of the main building trap.
  3. Clean-outs - A clean-out shall be placed immediately following the building trap and at every 50 foot interval along the Building Sewer. Clean-outs shall also be at every change in direction which exceeds 45 degrees. The clean-out shall consist of

a wye fitting in the run of the pipe with a 45 degree bend and riser to the ground surface. The riser pipe shall be provided with a screw-type ferrule and removable plug.

4. Inspection Tee - Each Building Sewer shall be provided with an inspection tee at the property line or curb line in accordance with the Typical House Connection Detail as included in Section VII of these Rules and Regulations. The riser shall be provided with a screw-type ferrule and removable plug.
- J. Unauthorized basement floor drains and sump pumps may not connect to the Building Sewer. For any unauthorized connections, the sewer customer shall be responsible for the costs and expenses of having the basement floor drain and /or sump pump disconnected if ground water or other extraneous water enters the Building Sewer and Sewer System. If not disconnected upon written notice of the Township, the sewer customer will be subject to the enforcement actions in Section V.
- K. Authorized Floor Drains as defined in Section 1 are permitted to connect to the Sewer System.
- L. The Township reserves the right to require air testing for gravity building sewer lines. The procedure for air testing is as follows:

Low Pressure Air Tests - The sewer customer shall test each service line using low pressure air at the discretion of the Township. Fill shall be placed over the pipe prior to testing, although joints may be left exposed to facilitate evaluation of the air test. The pipe shall be considered acceptable if the air loss rate does not exceed 0.0030 cubic feet per minute per square foot of internal pipe surface when tested at a pressure of 3.0 psi greater than the average backpressure exerted by the ground water of the backfilled pipeline. The time for the air pressure to decrease 1.0 psig from 3.5 to 2.5 psig greater than the average ground water back pressure shall not be less than the time indicated in the following list. If these rates of leakage are exceeded, the contractor shall at its expense determine the source of leakage and make all necessary corrections and retest.

- 1) 4 inch pipe diameter - 2 minutes, 0 seconds
- 2) 6 inch pipe diameter - 2 minutes, 55 seconds
- 3) 8 inch pipe diameter - 3 minutes, 57 seconds
- 4) 10 inch pipe diameter - 4 minutes, 43 seconds
- 5) 12 inch pipe diameter - 5 minutes, 40 seconds

A minimum period of two (2) minutes shall be provided to allow equilibrium of the air within the pipe wall before test reading shall commence. In areas of high groundwater conditions, the contractor shall determine the height of the groundwater above the pipe for piezometric tube or other approved methods.

The contractor shall submit to the Township for approval of the test procedure and list of test equipment it proposes to use prior to testing.

- M. Upon completion of each service installation, the Plumbing Inspector shall be notified and an appointment made for inspection. All pipes and pipe joints must be visible and accessible to the Plumbing Inspector. If the work is satisfactory, the permit, which must be on hand at the time of the inspection, will be endorsed and returned to the Owner.

**SECTION III**

**WASTEWATER CAPACITY ASSESSMENTS**

The EDU’s for residential and non-residential units shall be assessed and billed as per the category as listed in this Section. The EDU’s for non-residential units (e.g. commercial, industrial, institutional or other uses) shall be assessed and billed on a metered basis only when specifically approved by the Township. The Township in its sole discretion may add or revise user classifications and the user’s sewage requirements.

The Township shall have the right to reassess non-residential customers on a periodic basis and charge additional capital charges. Usage and additional charges will be based on the highest month.

USER CLASSIFICATION	MINIMUM CAPITAL CHARGES
1. Single Family Dwelling Unit	1 EDU
2. Retail Store (each 10,000 hrs. worked by the Owner and employees)	1 EDU
3. Commercial – Multiple Uses	
a. Convenience Store with Two Restrooms	
i. Without seating & without food preparation	3 EDUs
ii. Each additional public restroom (For food dispensing, etc. see Restaurant / Tavern for additional fees)	1 EDU
b. Restaurant / Tavern	
i. Food and Beverage Preparation & Dispensing (Up to 20 seats)	3 EDUs
ii. Each additional 10 seats	1 EDU
c. Gasoline / Diesel Dispensing Operation	
i. Standard Size (2-Dual Pump Units)	1 EDU

ii. Oversized (To be evaluated)	2 or more EDUs
iii. Each additional public restroom	1 EDU
4. Firehouse, Municipal Building, or similar use (each restroom)	1 EDU
5. Drive-In Theater - each 30 car spaces or fraction thereof	1 EDU
6. In-Door Theater - each 60 seats or fraction thereof	1 EDU
7. Church	
a. without kitchen facilities	1 EDU
b. with kitchen facilities	2 EDUs
8. Small business not otherwise listed e.g., small business attached to single family residence with separate entrance	1 EDU
9. Retail Garage / Vehicle Repair Garage	
a. 2 bays or fraction thereof	1 EDU
b. each bay over 2	0.5 EDUs
10. Car Wash	
a. hand wash, each bay	2 EDUs
b. automatic, each unit	3 EDUs
11. Laundromat	
a. each 2 washers (single load)	1 EDU
b. each 2 washers (double load or greater)	1.5 EDUs
12. Professional Office	
a. 5 employees or less	1 EDU
b. each employee over 5	0.20 EDUs
13. Apartment (each rental unit)	1 EDU
14. Motel or Hotel (in addition to restaurant facilities)	
a. without kitchen facilities each rental room	0.5 EDUs
b. with kitchen facilities each rental room	1 EDU

15. Schools / Approved Daycare	
a. without showers (each 20 students and employees or fraction thereof)	1 EDU
b. with showers (each 15 students and employees or fraction thereof)	1 EDU
c. with cafeteria (each 15 students and employees or fraction thereof)	1 EDU
d. with shower and cafeteria (each 12 students and employees or fraction thereof)	1 EDU
16. Bowling Alley w/o Tavern or Restaurant	
a. each 5 lanes or fraction thereof	1 EDU
b. each lane over 5	0.2 EDUs
17. Industry (Employee/sanitary wastewater only) (each 10,000 hours worked by owner or employees)	1 EDU
18. Medical Office to include Medical Doctors, Dentist, Chiropractors, Optometrist, etc. (each doctor)	1 EDU
19. Hospital or Nursing Home (each bed)	1 EDU
20. Boarding School (each 3 students or fraction thereof)	1 EDU
21. Barber or Beauty Shop (each 2 chairs or fraction thereof)	1 EDU
22. Campground	
a. each 3 sewerer sites	1 EDU
b. each 6 unsewerer sites	1 EDU

Example: If a professional office has fifty (50) employees, this would constitute ten (10) EDU's. Therefore, the fee would be ten (10) times the amount to be paid by a typical single family residential unit.

**SECTION IV**

**CHARGES FOR SANITARY WASTES HAVING CERTAIN CHARACTERISTICS**

Wastewater discharges to the Sewer System shall meet the requirements as outlined in Section II, except the Township may permit under separate agreement a commercial or industrial User to discharge wastewater having characteristics exceeding the following parameters:

Biochemical Oxygen Demand (BOD)	250 mg/l
Suspended Solids (SS)	250 mg/l
Ammonia Nitrogen (NH <sub>3</sub> -N)	25 mg/l
Total Phosphorus (TP)	10 mg/l

Surcharges may be applied as per the following for wastewater discharges having concentrations above the limits listed above.

**SURCHARGE FORMULA**

$$\text{Monthly Surcharge} = 0.00834 \text{ QI} [(\text{BOD}-250) \text{ A} + (\text{SS} - 250) \text{ B} + (\text{NH}_3\text{N} - 25) \text{ C} + (\text{TP} - 10) \text{ D}]$$

Whereas: QI = Monthly flow in MGD as discharged by the User.  
BOD = Biochemical Oxygen Demand (5 day) in mg/l.  
SS = Suspended Solids in mg/l.  
NH<sub>3</sub>N = Ammonia Nitrogen in mg/l.  
TP = Total Phosphorus in mg/l

- A = Represents the operation, maintenance, capital and treatment costs incurred per thousand pounds of BOD treated at the wastewater treatment facility.
- B = Represents the operation, maintenance, capital and treatment costs incurred per thousand pounds of Suspended Solids treated at the wastewater treatment facility.
- C = Represents the operation, maintenance, capital and treatment costs incurred per thousand pounds of Ammonia Nitrate treated at the wastewater treatment facility.
- D = Represents the operation, maintenance, capital and treatment costs incurred per thousand pounds of Total Phosphorus treated at the wastewater treatment facility.

**SECTION V**

**ENFORCEMENT**

Any person, partnership, corporation or other legal entity who shall violate these Rules and Regulations shall be subject, upon summary conviction for a first offense and upon summary conviction for each subsequent offense, to a fine of not less than One Hundred Dollars (\$100) nor more than One Thousand Dollars (\$1,000), together with costs of prosecution in each case, and in default of payment of such fine shall be subject to imprisonment up to 90 days. Each day that a violation continues shall be deemed as a separate offense and shall be punishable as such. Each discharge of a substance in excess of the maximum allowable concentration shall also be deemed and shall be taken as a separate violation. In addition to the penalties provided herein, the Township may sue at law or in equity to enjoin violations herein and in addition to damages may recover reasonable attorney's fees, court costs, court reporter's fees and other expenses of litigation by appropriate suit at law or in equity against the person, partnership, corporation or other legal entity found to have violated these Rules and Regulations, or the orders, rules, regulations, and permits issued hereunder.

**SECTION VI**

**ADDITIONAL PROVISIONS OF THESE RULES AND REGULATIONS**

- A. These Rules and Regulations shall become effective immediately upon date of enactment by the Township.
- B. Conflict: All other regulations and parts of other regulations inconsistent or conflicting with any part of these Rules and Regulation are hereby repealed only to the extent of such inconsistency or conflict.
- C. This Township reserves the right to adopt such additional rules and regulations as it shall deem necessary and proper in connection with use and operation of the Sewer System, which rules and regulations shall be, shall become, and shall be construed as part of these Rules and Regulations.
- D. This Township shall in accordance with applicable Federal guidelines, provide for annual review and revision of all user charges and revise them periodically, if necessary, to meet actual operation and maintenance expenses and records shall be maintained as are necessary to document compliance with future regulations on the Township's user charges.
- E. In the event any provision, paragraph, word, section, clause, or part of these Rules and Regulations shall be held to be invalid, such invalidity shall not affect or impair any remaining provisions, paragraphs, words, sections, sentences, clauses, or part of these



Rules and Regulations, it being the intent of this Township that such remainder shall be and shall remain in full force and effect.

**SECTION VII**

**EXHIBITS**

Exhibit I - Grinder Pump Unit / Pressure Sewer Lateral Detail

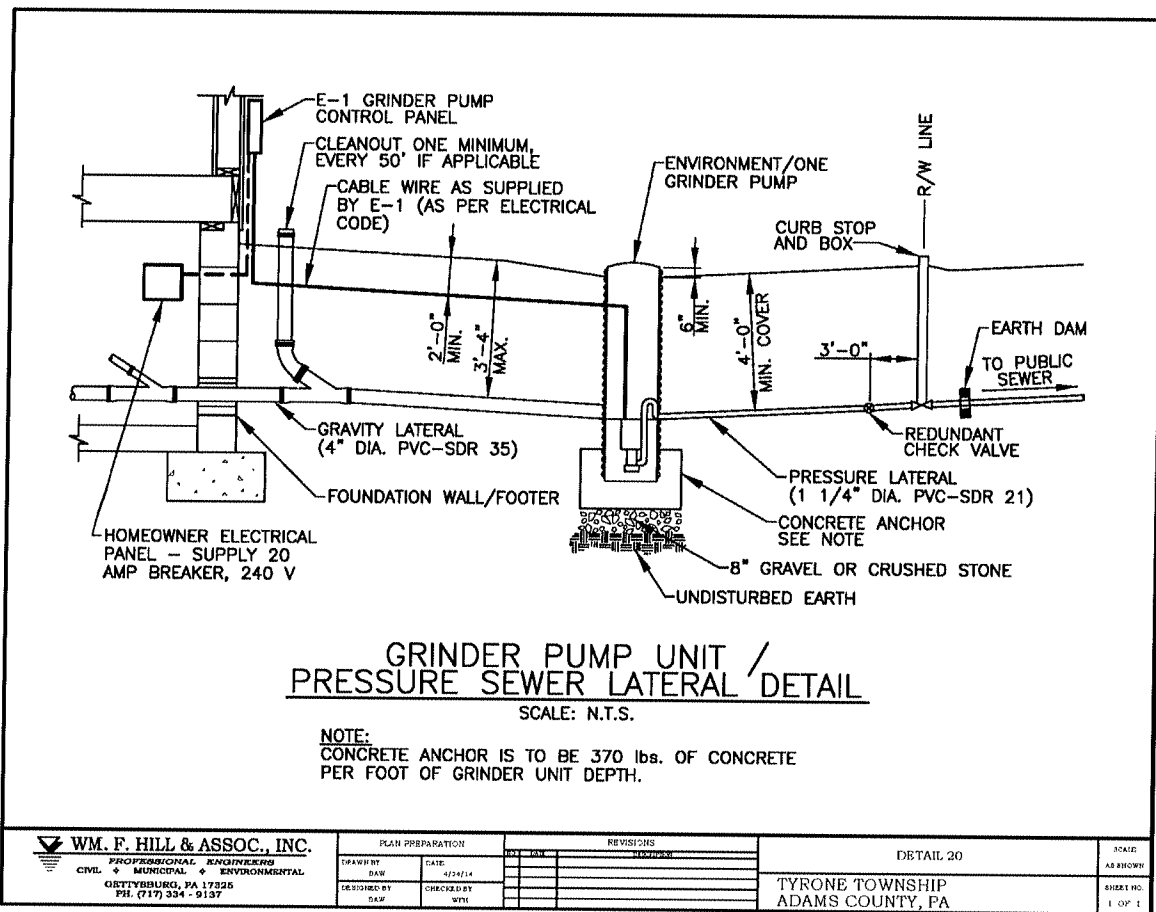
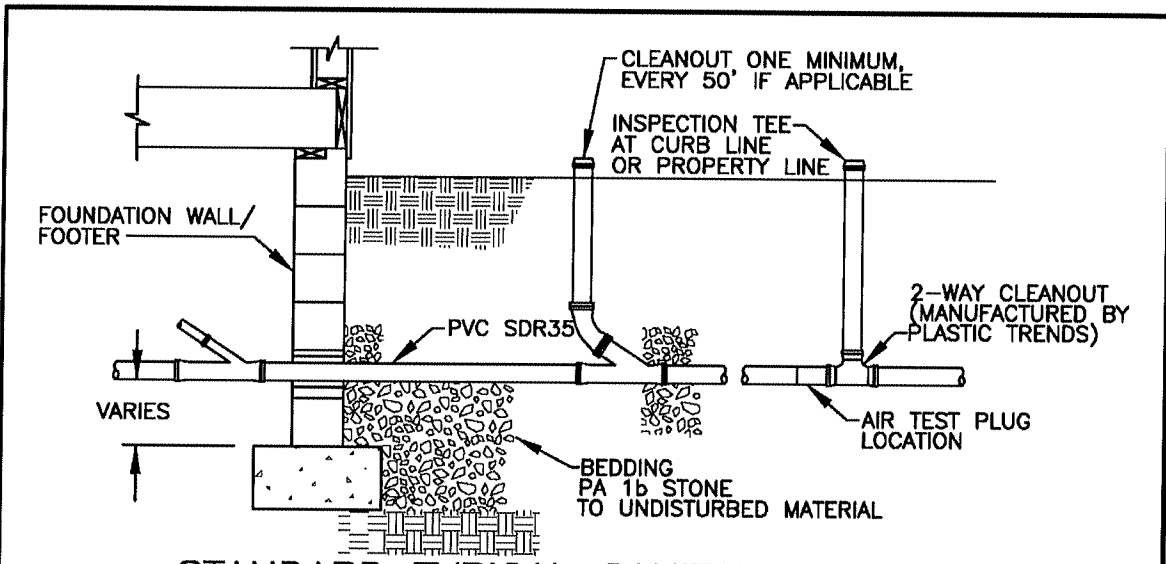
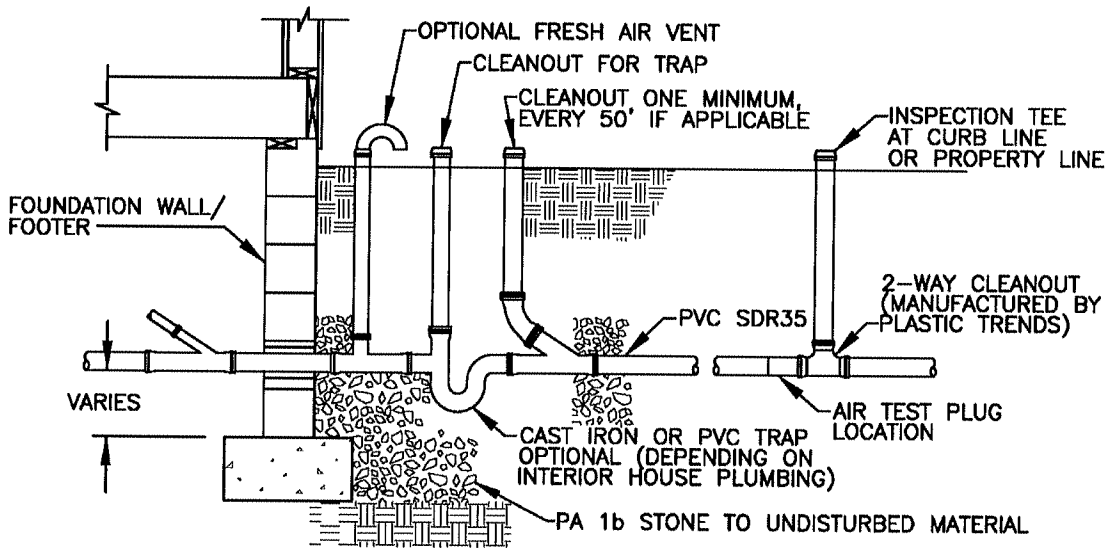


Exhibit II - Typical House Connection Detail



**STANDARD TYPICAL SANITARY SEWER HOUSE CONNECTION**

SCALE: N.T.S.



**TYPICAL SANITARY SEWER HOUSE CONNECTION**

SCALE: N.T.S.

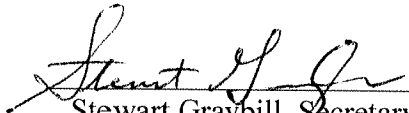
(INADEQUATE EXISTING PLUMBING TRAPS)

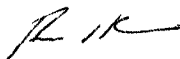
<p><b>WM. F. HILL &amp; ASSOC., INC.</b> PROFESSIONAL ENGINEERS CIVIL ♦ MUNICIPAL ♦ ENVIRONMENTAL GETTYSBURG, PA 17325 PH. (717) 334-9137</p>	PLAN PREPARATION		DETAIL 1	SCALE: AS SHOWN
	DRAWN BY: DAW	DATE: 4/04/14		
	DESIGNED BY: DAW	CHECKED BY: WFM		

**DULY ENACTED AND ORDAINED**, this 13<sup>TH</sup> day of AUGUST, 2014  
by the Supervisors of Tyrone Township, Adams County, Pennsylvania, in lawful session duly  
assembled.

ATTEST:

TYRONE TOWNSHIP

  
\_\_\_\_\_  
Stewart Graybill, Secretary

BY:   
\_\_\_\_\_  
Russell L. Raub, Chairman