

# UNIFORM SEWER CONSTRUCTION ORDINANCE OF 1994

A sewer construction ordinance  
for the Townships of Acme, East Bay,  
Peninsula and the Charter Township of Garfield  
in Grand Traverse County and the Charter Township of  
Elmwood in Leelanau County, Michigan

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UNIFORM SEWER CONSTRUCTION  
ORDINANCE OF 1994

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UNIFORM SEWER CONSTRUCTION  
ORDINANCE OF 1994

An Ordinance to protect the health, safety and welfare of the people; to regulate the design, construction and use of public and private sewers and drains and private sewage disposal facilities; to provide for the administration of this Ordinance; and to establish remedies and penalties for violation.

The Townships of Acme, East Bay, Garfield, and Peninsula, located in Grand Traverse County, Michigan, and the Township of Elmwood, located in Leelanau County, Michigan, respectively ordain:

The Township Ordinance entitled "Uniform Sewer Use and Construction Ordinance of 1986" is hereby repealed.

ARTICLE 1

Finding of Necessity and Definitions

1.1

Finding of Necessity

A public sanitary sewage system is essential to the health, safety and welfare of the people of the Township. Failure or potential failure of septic tank disposal systems poses a menace to health, presents a potential for the transmission of disease, and for economic blight, and constitutes a threat to the quality of surface and subsurface waters of the Township. The connection of structures in which sewage originates to an available public sanitary sewer system at the earliest reasonable date; the proper design, construction and use of public and private sewers and drains and private sewage disposal facilities; and protective limitations on the discharge of certain waters and wastes into the public sewer system, are all matters for the protection of the public health, safety and welfare and are necessary in the public interest, which is hereby declared.

1.2

Definitions

The meaning of terms used in this Ordinance are as follows:

- 1.2.1            Building Drain
- That part of the lowest horizontal piping of a drainage system which receives the sewage discharge from plumbing fixtures inside the walls of a building and conveys it to the building sewer. The building drain extends to a point 5 feet outside the inner face of the building wall.
- 1.2.2            Building Sewer
- The extension from the building drain to the public sewer (or other place of disposal) including the wye and riser.
- 1.2.3            Combined Sewer
- A sewer receiving roof drainage or surface runoff, and sewage.
- 1.2.4            County D.P.W.
- The Grand Traverse County Department of Public Works operated by the County Board of Public Works.
- 1.2.5            Director
- The Director of the County D.P.W. unless another person has been designated in writing by the Township to carry out the responsibilities assigned to the Director under this Ordinance, in which case references to the Director shall be to the person so designated in writing.
- 1.2.6            Footing Drain
- A buried pipe surrounding a building for the purpose of draining groundwater away from the building footing.
- 1.2.7            Infiltration/Inflow
- Water that enters the sewage collection system through broken or leaky pipes and manholes or through illegal roof or footing drains and catch basins connected to the sanitary sewer.
- 1.2.8            Local Health Department

The district or county health department having jurisdiction over the site with respect to which the reference is made.

- 1.2.9            Natural Outlet
- Any outlet into a watercourse, pond, ditch, lake or other body of surface or ground water.
- 1.2.10          Non-Domestic User
- Any industrial, commercial, or other user which discharges wastewater used for other than household purposes.
- 1.2.11          Owner
- The last recorded titleholder of lot or parcel of land.
- 1.2.12          Person
- Any natural person, partnership, corporation, association, or municipal or public corporation.
- 1.2.13          Public Sewer
- A sewer used or intended for use by the public for the collection or transportation of sewage for treatment or disposal and owned and operated by a governmental agency.
- 1.2.14          Pumping System
- A mechanical device for lifting or pressurizing wastewater flows including the following:
- 1.2.14.1        Lift Station
- A pumping station designed primarily to move wastewater vertically.
- 1.2.14.2        Booster Station
- A pumping station designed primarily to move wastewater horizontally.
- 1.2.15          Roof Drain

A system for collection of precipitation which falls on a building roof and includes roof gutters and downspouts.

1.2.16

Sanitary Sewer

A sewer which carries sewage and from which storm, surface, and ground waters are meant to be excluded.

1.2.17

Sewer System

All facilities for collecting, pumping, treating and disposing of sewage.

1.2.18

Storm Drain

A sewer which carries storm and surface waters and drainage, but excludes sewage and most industrial wastes. Unpolluted industrial cooling water is an example of industrial waste acceptable in a storm drain. (Sometimes known as "storm sewer".)

1.2.19

Township

This Township.

1.2.20

Wye and Riser

That portion of the building sewer lying between the public sewer and the property or easement line.

## ARTICLE 2

### Private Sewage Disposal

2.1

Private Systems

Where a public sanitary sewer is not available, the building sewer shall be connected to a private sewage disposal system complying with the provisions of this Article.

- 2.2            Permit
- Before commencement of construction of a private sewage disposal system the owner shall first obtain a written permit signed by the Local Health Department.
- 2.3            Construction
- Construction of a private sewage disposal system shall comply with the permit approved by the Local Health Department. Officials of the Local Health Department shall be allowed to inspect the work at any stage of construction which shall not be deemed to be completed until final approval thereof is given by the Local Health Department.
- 2.4            Abandonment
- At such time as a public sanitary sewer becomes available to a property served by a private sewage disposal system, a direct connection shall be made to the public sanitary sewer in compliance with this Ordinance, and any septic tanks, cesspools, and similar private sewage disposal facilities shall be abandoned after pumping, crushing and filling with suitable material.
- 2.5            Maintenance
- The owner shall operate and maintain the private sewage disposal facilities in a sanitary manner at all times, at no expense to the Township.
- 2.6            Additional Requirements
- No provision contained in this Article shall be construed to interfere with any additional requirements that may be imposed by the Local Health Department or other authority with respect to the construction, maintenance and operation of private sewage disposal systems and the disposal of septage therefrom.
- 2.7            Technical Standards
- The Township may from time to time, by resolution adopt supplementary design requirements and technical specifications for the design, construction, and maintenance of private sewage

disposal facilities. A copy of any such standard shall be available for inspection or purchase (at the cost of reproduction) at the Township offices and at the offices of the Grand Traverse County Board of Public Works.

### ARTICLE 3

#### Building Sewers and Connections

3.1 Permits

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

3.2 Two Classes

There shall be two (2) classes of building sewer permits: (1) for domestic service and (2) for non-domestic service. In either case, the owner or his agent shall make application on a special form furnished by the Director. The permit application shall be supplemented by any plans, specifications, or other information considered pertinent in the judgment of the Director. Permit and inspection fees shall be established from time to time by resolution of the Township. Such fees shall be paid prior to issuance of a permit. If the Director finds that the application and proposed construction complies with this Ordinance a permit shall issue. A permit shall be valid for a period of one year from the date of issuance. Upon application approved by the Director and payment of a renewal fee established by the Township, a permit may be renewed for one additional one-year period. In the event this Ordinance has been modified prior to renewal, the renewal may be accomplished only by complying with then-prevailing standards unless the Director finds undue hardship would result. Installation shall be completed during the period the permit is valid.

3.3

Expenses

All costs and expense incidental to the installation, connection and maintenance of a building sewer shall be borne by the owner. The owner or contractor installing or maintaining a building sewer shall indemnify the Township, the Director and the County D.P.W. from any loss or damage that may directly or indirectly result from the installation or maintenance of the building sewer.

3.4

Separate Sewers

Each building shall be served by a separate building sewer. Where a building is part of a complex of related buildings, the Director may require the applicant to construct a public sewer to serve the building sewers of more than one building. Where a building is so situated such that no public sewer is available or can be constructed, the Director upon a determination that undue hardship would otherwise result and with the approval of the County B.P.W. and the Township may permit a building sewer to be extended over the premises of another building and the whole considered as one building sewer, upon terms and conditions to be established by the Director. Approval for such a non-standard sewer connection shall be conditioned upon the undertaking of the owner to correct the non-standard condition upon request of the Director.

3.5

Old Sewers

Old building sewers may be used in connection with new buildings only when the Director determines after examination and testing approved by the Director that they meet the requirements of this Ordinance.

3.6

Construction Requirements

Building sewers and connections thereof to the public sanitary sewer shall meet the following requirements:

3.6.1

All building sewers shall be not less than (6) inches in diameter except those serving single or two-family residences which shall be (4) inches or

more in diameter.

3.6.2

Except as provided in paragraph 3.6.3 below, the following materials are approved for construction of building sewers and connections thereof to the public sewer:

1. PVC schedule 40 with chemical weld joint.
2. ABS (SDR 23.5) extra strength pipe with chemical weld joint.
3. Ductile iron with rubber O-Ring joint.
4. ABS or ductile iron shall be used for all building sewers with a depth greater than (16) feet.

3.6.3

Building sewers and connections thereto shall not be located within 75 feet of a private water well or within 300 feet of a municipal water well unless the Director determines there is no practical alternative, in which case sewers and connections thereof shall be constructed of special materials as specified by the Michigan Department of Health.

3.6.4

A building sewer shall be laid at a uniform grade. The slope of a building sewer shall be not less than one-quarter inch per foot (2%) for four inch pipe and not less than one-eighth inch per foot (1%) for six inch pipe.

3.6.5

A building sewer shall have a minimum cover of 3 feet, except that under driveways, parking lots or traffic areas the minimum cover shall be 5 feet. Nonconforming installation may be approved by the Director where special conditions exist. The Director, in approving such installations, may require special construction techniques or materials.

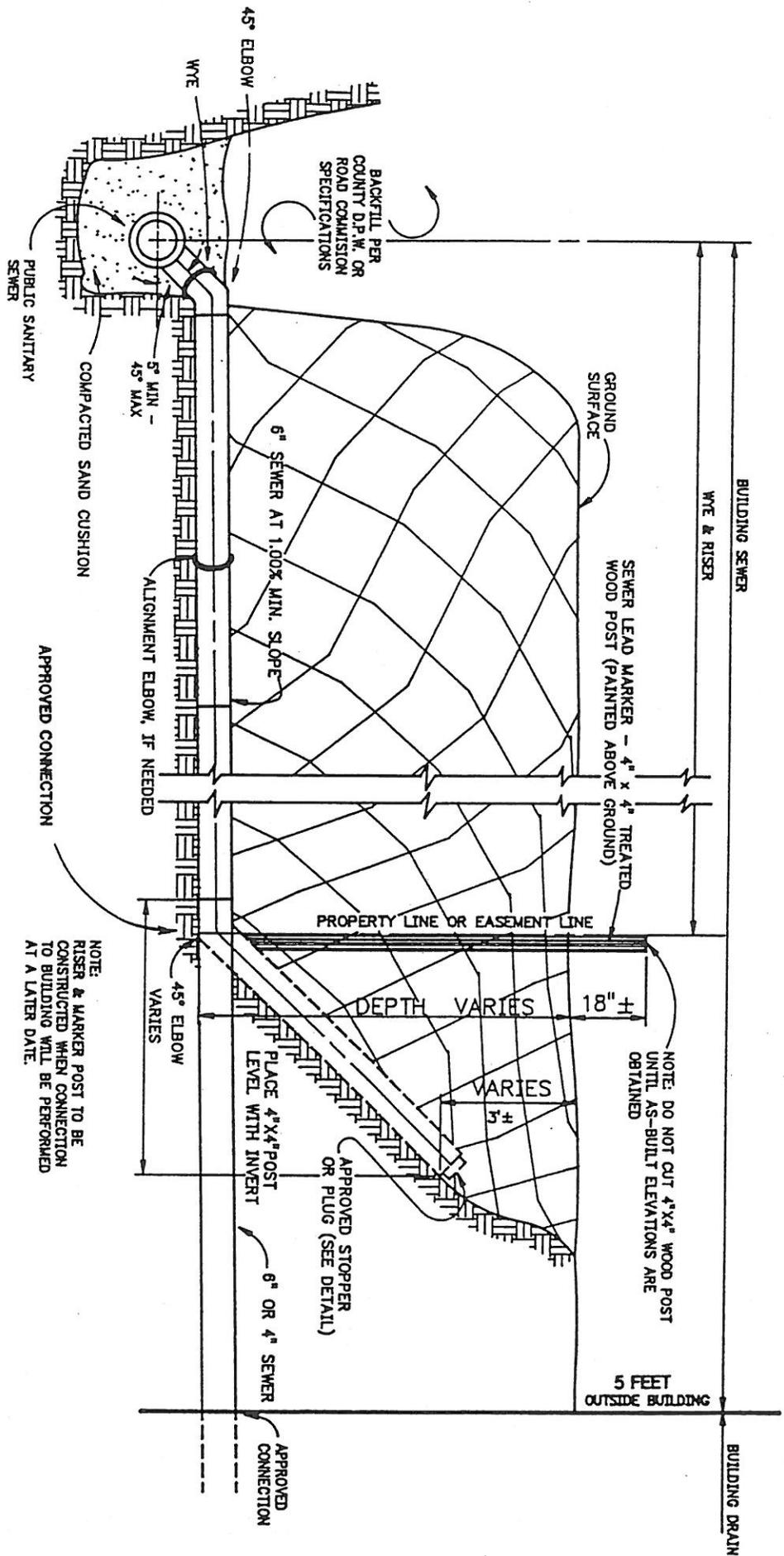
3.6.6

Connections to the public sewer shall be made only where wyes or risers are provided in the line. If a wye or riser is not available, the building sewer connection shall be subject to approval by the Board of Public Works and installed with approved fittings by a licensed plumber. The Director may require that the licensed plumber making the installation post a performance bond and provide liability insurance in amounts as

determined by the Director. All costs in connection therewith shall be borne by the applicant.

- 3.6.7 A building sewer line shall be straight, with any change in alignment subject to approval by the Director. Only long radius elbows shall be used for changing alignment of building sewers.
- 3.6.8 Cleanouts on long building sewers shall be installed at approximately 75 foot intervals and at locations where alignment is changed, if required by the Director.
- 3.6.9 Where different pipe materials are to be joined together only manufactured adapters made for that purpose shall be used.
- 3.6.10 Where rock or hard clay excavation is required, a six inch sand or gravel cushion shall be placed around the pipe.
- 3.6.11 Connection of a building sewer into the public sewer shall conform to the requirements shown in Figure 1 below. All connections shall be made gas tight and water tight. Any deviation from the procedures and materials set forth herein may be made only with the approval in writing of the Director before installation.

**FIGURE 1:  
 CONNECTION OF A BUILDING SEWER  
 INTO THE PUBLIC SEWER**



3.7 Inspection Manholes

All commercial and industrial properties shall have an inspection manhole on any building sewer that connects to the public sewer system. Such manhole shall be located just inside the property line and as a minimum have a 4-foot inside diameter with the inflow pipe at least 1 foot higher than the outflow pipe.

3.8 Separators

Grease, sand and oil separators shall be required on all building sewers where wastewater which may contain grease, sand or oil is to be discharged into a public sewer.

3.9 Elevations

Whenever possible, the building sewer shall be brought to the building at an elevation below the basement floor. In all buildings in which any building drain is too low to permit gravity flow to the public sewer, sanitary sewage carried by such building drain shall be lifted by an approved means and discharged to the building sewer.

3.10 Storm Water

No person shall make connection of roof downspouts, exterior foundation drains, areaway drains or other sources of surface runoff or ground water to a building sewer or building drain which in turn is connected directly or indirectly to a public sanitary sewer.

3.11 Inspections

The applicant for a building sewer permit shall notify the plumbing inspector with jurisdiction at least 24 hours prior to the time that the building sewer is ready for inspection, testing, and connection to the public sewer. The entire building sewer shall be left uncovered until inspected, tested, and approved; connection shall be made under the supervision of the plumbing inspector.

3.12

Excavations

All excavations for building sewers shall be adequately guarded with barricades and lights for the protection of the public. Streets, sidewalks, parkways and other public property disturbed in the course of the work shall be restored as near as practicable to the original condition.

3.13

Abandoned Sewers

Abandoned or discontinued building sewers shall be bulkheaded, capped or sealed at the property or easement line in a manner to prevent infiltration or leakage of liquids or gasses therefrom. The work shall be subject to inspection by the Director. All costs shall be the owner's. In the event that an owner refuses or fails for any reason adequately to bulkhead, cap or seal an abandoned or discontinued building sewer, the Township after notice to the owner by ordinary or certified mail may cause the work to be completed. All costs incurred by the Township shall be a lien upon the property and shall be assessed against the real property on the next succeeding Township tax roll.

3.14

Testing

All building sewers shall be tested using air or water. Each sewer shall maintain pressure of not less than 5 p.s.i. for not less than 15 minutes with no measureable loss in pressure. All necessary equipment and facilities for conduct of the test shall be provided by the applicant.

ARTICLE 4

Design and Construction Requirements  
for Sewage Collection Systems

4.1

General

4.1.1

All plans for additions to, or the extension or relocation of, the Township sanitary sewer system shall be submitted to the Township for review and approval if applicable standards are met prior to seeking any other approvals.

- 4.1.2 No additions to or extensions or relocations of the Township sanitary sewer system shall be placed in service and no building sewer connections shall be made thereto until:
1. Satisfactory test results have been received by the Township;
  2. "As built" plans have been submitted and approved by the Township; and
  3. The system has been conveyed to and accepted by the Township.

4.1.3 Any sanitary sewer, which services two or more separate buildings or dwellings shall be constructed as a public sewer in accordance with applicable standards, and shall be conveyed to the Township prior to use together with suitable easements for installation, maintenance, repair, and replacement unless the Township shall decline to take over the sewer line.

4.1.4 Combined sewer systems shall not be permitted.

4.1.5 In the event a non-governmental party wishes to construct an addition or extension of the public sewer system, the Township may require the establishment of an escrow account (or equivalent security) and the deposit of funds therein, and to require the refreshment thereof from time to time, which will be reasonably sufficient to pay Township's costs in reviewing plans, drafting agreements, and causing such regular inspections of the work to be made as the Township deems necessary. The Township may also require the party proposing construction to furnish such payment and performance bonds, and to extend such warranty in favor of the Township as the Township obtains when the Township constructs a public sewer.

4.1.5.1 Acceptance of a sewer by the Township is not a representation by the Township that it suits all potential users or serves all property adjacent to the line.

4.1.6 Compliance with the standards of this Ordinance, technical specifications adopted by the Township, and generally accepted design and construction principles shall be required before permission is

given to connect to the Township sanitary sewer system.

4.2 Design Flows

4.2.1 Sanitary sewer systems shall be designed on the basis of an average daily flow calculated at a minimum of 250 gallons per residential equivalent per day, or, the estimated flow from commercial or industrial sources, or both, whichever applies. The basis of design shall be submitted with the plans and specifications that lists the present and future flows from the service area.

4.2.2 Generally, sanitary sewers shall be designed to carry, when running full, not less than the following peak flows:

1. Lateral sewers - 400% of average daily flow.
2. Trunk sewers - 250% of average daily flow.

4.2.3 When deviations from the foregoing per capita rates are requested, a description of the procedure used for sewer design shall be included.

4.3 Public Sanitary Sewers

4.3.1 Materials used in the construction of sanitary sewers shall be of recognized good quality and shall be adapted to local conditions, such as character of industrial wastes, susceptibility to septic conditions, soil characteristics, exceptionally heavy external loadings, abrasion and similar problems.

4.3.2 Sewers and forcemains lying within 75 feet of a private water well, or within 200 feet of a municipal water well, shall be constructed of special materials as specified by the Michigan Department of Public Health.

4.3.3 Sewer joints and materials shall be designed to eliminate infiltration and to prevent the entrance of roots. All joints shall be of premium quality.

4.3.4 A bulkhead shall be installed at each outlet to an existing system, and shall not be removed until the new sewer system has been accepted by the Township.

- 4.3.5 General Design:
- 4.3.5.1 Sanitary sewers shall be a minimum of 8" in diameter.
- 4.3.5.2 Sanitary sewers shall be designed for mean velocities when flowing full, of not less than 2.0 feet per second in accordance with the following table:

MINIMUM ALLOWABLE SLOPE ON  
SANITARY SEWER MAIN

Pipe Size (Inches)	Minimum Allowable Slope (FT/FT)
8	.0040
10	.0028
12	.0022
15	.0015
18	.0012
24	.0008

- 4.3.5.3 Sanitary sewers shall be designed with a uniform slope and direction between manholes.
- 4.3.5.4 When a smaller sewer joins a larger one, the invert of the larger sewer shall be lowered at least enough to maintain the 0.8 depth point of both sewers at the same elevation.
- 4.3.5.5 Where velocities greater than 12 feet per second are anticipated, special provisions may be required to protect against scouring and thrust displacement.
- 4.3.5.6 All sanitary sewer systems shall be designed and constructed so as to limit infiltration to less than 100 gallons per inch of pipe diameter per mile per day or as determined by the Township.
- 4.3.5.7 Sanitary sewers shall be sufficiently deep so as to prevent freezing. The minimum shall be 5 feet. The Township may allow lesser depths if adequate insulation is provided.
- 4.3.5.8 All sanitary sewers shall be constructed of the following pipe:

1. 8" to 24" PVC with a minimum wall thickness rating of SDR 35. ABS with a minimum wall thickness as designated in ASTM D2680.
2. Over 24" reinforced concrete C 76-V.

4.3.5.9 Sanitary sewer pipe strength requirements are as tabulated below:

#### SEWER STRENGTH CLASSIFICATION

##### SATURATED CLAY

Sewer Depth (ft.)	3-8	8-12	12-16	Over 16
ABS Composite Pipe (8" to 24")	Std.	Std.	Std.	Std.
PVC Sewer Pipe (8" to 24")	Std.	Std.	Std.	Std.
Reinforced Concrete (Above 24")				**

##### DRY SAND

Sewer Depth (ft.)	3-8	8-12	12-16	Over 16
ABS Composite Pipe (8" to 24")	Std.	Std.	Std.	Std.
PVC Sewer Pipe (8" to 24")	Std.	Std.	Std.	Std.
Reinforced Concrete (Above 24")				C 76-V

#### 4.4 Manholes

4.4.1 Manholes shall be installed at the end of each line, at all changes in grade, type of pipe, size, alignment, at all intersections, and at distances not greater than 400 feet. On the ends of short lines which will be extended, a cleanout in lieu of a manhole may be provided with the approval of the Director.

4.4.2 A standard drop connection shall be provided for a sewer whose invert is at an elevation of 24 inches or more above the manhole invert. Drops of less than 24 inches shall have a partial channel and paved slope of not greater than 70 percent.

- 4.4.3 The minimum inside of diameter of manholes shall be 48 inches.
- 4.4.4 Only solid watertight manhole covers are to be used. Where venting is required, vent pipes shall be installed. In areas of intermittent surface water (ditches, low lands, shorelines, etc.) bolted covers shall be required.
- 4.4.5 The flow channel through manholes shall be constructed of 1/2 section plastic pipe, of full depth, and made to conform in shape and slope to that of the sewers.
- 4.4.6 All manholes shall be precast sections and watertight.
1. Manholes shall have approved premium joints and rubber waterstops.
  2. Manholes shall be waterproofed on the exterior with a bituminous waterproof coating or on the interior with an approved coating.
- 4.4.7 3 inch manhole adjustment rings shall be installed on all manholes within paved areas.
- 4.5 Pumping Systems
- 4.5.1 All pump stations and lift stations shall conform to good engineering design and standards.
- 4.5.2 All pumping systems shall be equipped with an approved self-cleaning recording totalizing flowmeter. Telemetry shall be designed, furnished, and installed in accordance with Township standards at the applicant's expense.
- 4.5.3.1 An emergency power supply connection receptacle, meeting current standard specifications and details, must be provided at all pumping stations.
- 4.5.3.2 A standby emergency power supply may be required at the direction of the Township in addition to the receptacle. One of the following may be required:
- 4.5.3.2.1 An electrical service connection to 2 independent public utility sources; or,

- 4.5.3.2.2 In-place permanent internal combustion engine equipment capable of generating electrical or mechanical energy; or,
- 4.5.3.2.3 Portable generating equipment.
- 4.5.4 Spare Parts
1. Submersible pump stations shall include an extra pump.
  2. Dry well stations shall include a set of impellers sized for future conditions.
- 4.6 Force Mains
- 4.6.1 At design minimum flow, a cleansing velocity of at least 2 feet per second shall be maintained.
- 4.6.2 An automatic air relief valve shall be placed at high points in the force main to prevent air locking.
- 4.6.3 Force main cleanouts shall be provided at intervals of about 1,000 feet.
- 4.6.4 A velocity reducing device may be required at the juncture of the force main with the gravity sewer.
- 4.6.5 All 90 degree bends shall be long radius elbows.
- 4.7 Testing
- 4.7.1 Sanitary Sewer Systems:
- 4.7.1.1 Leakage tests shall be specified by the Director. This may include appropriate water or low pressure air testing. The leakage outward or inward (exfiltration or infiltration) shall not exceed 100 gallons per inch of pipe diameter per mile per day for any section of the system, or as required by the Township.
- 4.7.1.2 All sewer lines shall be televised when completed. Videotape in VHS (or other format as provided by the Director) of the sewer line shall be submitted to and remain the property of the Director. Tests and/or television inspection shall be witnessed by the Director.

- 4.7.1.3 PVC sewer pipe shall be tested for vertical deflection as provided in Township specifications.
- 4.7.2 Pumping Systems:
  - 4.7.2.1 Tests shall be conducted to verify performance curves of each pumping device installed in the system.
- 4.8 Plans
  - 4.8.1 Five sets of plans in 24" x 36" format and five sets of the Township's standard specifications shall be submitted to the Township for all proposed public sanitary sewage collection systems, additions thereto and modifications or relocations thereof. Plans that are completed to the satisfaction of the Township shall be transmitted by it to the Michigan Department of Natural Resources for a construction permit.
  - 4.8.2 The following data shall be incorporated in the plans:
    - 4.8.2.1 A location map indicating the 1/4 section in which the project is located.
    - 4.8.2.2 When more than one sheet is required for the plans, a small scale overall plan shall be shown.
    - 4.8.2.3 Each set of plans shall bear the embossed seal of the engineer who is responsible for the plans who shall be an engineer licensed by the State of Michigan.
    - 4.8.2.4 Two bench marks shall be shown on each plan sheet.
    - 4.8.2.5 Existing utilities shall be shown on plans and profile.
    - 4.8.2.6 All existing sewer inverts must be field measured and shall be so designated on the plans.
    - 4.8.2.7 A profile including inverts, top of casting grades, gradient, length and drop connections shall be shown for each run of sewer or force main.
    - 4.8.2.8 Proposed and existing elevation of curb or road, or ground above the sewer shall be shown on the profile. Finished floor elevations of existing

buildings shall be shown on the plans. Existing basements should be noted.

4.8.2.9 The locations of stoppers and bulkheads shall be indicated on the plans.

4.8.2.10 An easement shall be designated on the plans for each run of public sanitary sewer not in a public right-of-way. The minimum easement shall be 20 feet wide, or as required by the Township.

4.8.2.11 The following notes shall appear on the plans:

1. "All construction and materials shall conform to the Grand Traverse County D.P.W. Standard Technical Specifications as adopted by the Township from time to time."

2. "No connection receiving storm water or ground water shall be made to sanitary sewers."

3. "All elevations shall be based on USGS or NGVD Datum."

4.8.2.12 Standard details of pipe bedding, building sewers, drop connections, bulkheads, manholes, manhole covers, and other appurtenances shall be submitted on a plan sheet.

#### 4.9 Existing Systems

4.9.1 Alterations to Existing Systems.

4.9.1.1 General: No work shall be performed on existing public sanitary sewer systems except by written permission of the Township or Board of Public Works in the event that the Board of Public Works has accepted the sewer system for operation and maintenance.

4.9.1.2 Manholes: When it is necessary to excavate adjacent to manholes or similar structures, the excavation shall extend around the entire perimeter, except by permission of the Township.

4.9.1.3 Any connection to an existing manhole shall be performed by coring and installation of a waterproof boot.

- 4.9.2 Approval of existing systems as public sanitary sewer systems.
- 4.9.2.1 Sanitary sewer systems not previously approved as public sanitary sewers may, in the Township's sole discretion, be accepted as public sewers provided they meet all general requirements of this Ordinance.
- 4.9.2.2 Before acceptance of existing systems as public sanitary sewers, the Township shall cause such tests on the system as it deems necessary. Television inspection of the system may be required. All costs of performing such tests shall be borne by the owner of the facility.

4.10 Technical Standards

The Township may from time to time, by resolution adopt supplementary design requirements and technical specifications for the design, construction, and maintenance of public sanitary sewage systems and private sewers connected thereto. A copy of any such standard shall be available for inspection or purchase (at the cost of reproduction) at the Township offices and at the offices of the Grand Traverse County Board of Public Works.

ARTICLE 5

Powers and Authority of Inspectors

5.1 Observation

The duly authorized employees and agents of the Township after showing proper credentials and identification shall be permitted to enter upon all properties in the Township for the purposes of inspection, observation, measurement, sampling, and testing of sewage flows in accordance with the provisions of this Ordinance.

5.2 Inspections

The Director, or the authorized representative of the Director, is empowered to enter at all reasonable times upon and into any premises, building or structure for the purpose of examining and inspecting the same, to ascertain the

condition thereof with regard to sewer construction, use or wastewater discharge.

5.3

Access

No person in control of premises containing a private or public sanitary sewer shall obstruct access to said sewer or shall create or suffer to remain any condition or circumstance which would render an inspection of such sewer dangerous to person or property.

5.4

Hold Harmless

While working on private premises within the scope of their authority, the Township and duly authorized representatives and employees of the Township including the Director shall be held harmless by the owner of said premises for damage to person or property for negligence on the part of the owner, the owner's agents, employees, or invitees.

ARTICLE 6

Remedies

6.1

Violation

Any person who violates any provision of this Ordinance shall be guilty of a misdemeanor punishable by a fine of not more than Five Hundred Dollars (\$500.00) or by imprisonment for not to exceed Ninety (90) days, or both. In the case of a violation which extends over more than one (1) day, each day of violation shall be deemed a separate violation.

6.2

False Statement

Any person who shall intentionally make a false statement, representation or certification in an application for a permit or in any report or statement of information required or permitted under this Ordinance, shall be guilty of a misdemeanor.

6.3

Damages

The Township shall have the right to receive the full value of any losses, costs or damage resulting from an action or inaction constituting a violation of this Ordinance in a civil action in a court of competent jurisdiction. The amount which may be recovered by the Township as damages shall include any amounts the Township is required to pay resulting from fines or penalties imposed directly or indirectly upon the Township attributable in whole or in part to such violation. Such damages shall further include the costs, including indirect administrative costs, of remedying any condition created or permitted by any person in violation of this Ordinance.

6.4

Injunctive Order

The Township may commence an action in any court of competent jurisdiction for an injunctive order requiring abatement of a condition created or permitted in violation of this Ordinance.

6.5

Notices

The Director may, with the approval of the Township, give written notice to any person in control of property with respect to which a condition exists which violates this Ordinance or who is engaged in conduct which violates this Ordinance to stop or correct the violation. Said notice may provide a period within which the violation shall be stopped or corrected. The person to whom notice is given shall, within the time period specified, correct the violation. Failure to comply with the terms of said notice shall constitute a violation of this Ordinance.

6.6

Work by Director

If the Director determines that a condition in violation of this Ordinance presents a danger to the public health, welfare, or safety, or presents a danger to the proper operation of the public sanitary sewer system, and after notice the owner of the premises has failed or refused to remedy the condition, the Director may with the approval of the Township cause the necessary work to be done to remedy the condition and the cost thereof shall be paid by the owner of the premises, and if

he does not pay the cost thereof, it shall constitute a lien upon the real estate and may be collected in the same manner as unpaid sewer charges.

## ARTICLE 7

### Authority to Contract

#### 7.1 Other Units

The Township may, from time to time, by written agreement, contract with other units of local government to carry out the service and assume the obligations required by this Ordinance. Such services may include, but shall not be limited to, inspection of facilities and construction work, issuance, amendment and revocation of permits, and maintenance of Township sewers and appurtenances.

#### 7.2 D.P.W.

The duties and responsibilities of the Township hereunder (except as to the establishment of rates and fees, the enforcement by legal action of this Ordinance, and such other matters expressly reserved to the Township) are hereby delegated to the Grand Traverse County Board of Public Works. This delegation may be terminated or altered from time to time by written notice from the Township to the Board of Public Works. The Board of Public Works is expressly authorized to enter into agreements from time to time with the City of Traverse City to assist in the administration of this Ordinance subject to the approval of the Township.

## ARTICLE 8

### Miscellaneous

#### 8.1 Repealer

All Ordinances or parts of Ordinances in conflict herewith are hereby repealed.

# UNIFORM SEWER CONSTRUCTION ORDINANCE OF 1994

The following ordinance has been adopted by the respective township boards of the townships of Acme, East Bay, Garfield, and Peninsula in Grand Traverse County, and the township of Elmwood in Leelanau County, Michigan. For further information contact the township clerk or the Grand Traverse County Board of Public Works.

A sewer construction ordinance  
for the Townships of Acme, East Bay,  
Peninsula and the Charter Township of Garfield  
in Grand Traverse County and the Charter Township of  
Elmwood in Leelanau County, Michigan

Michael J. Houlihan  
539 South Garfield  
P.O. Box 28  
Traverse City, Michigan

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wastewater horizontally.

1.2.15 Roof Drain  
A system for collection on a building roof and in

1.2.16 Sanitary Sewer  
A sewer which is on surface, and ground water

1.2.17 Sewer System  
All facilities for disposing of sewage.

1.2.18 Storm Drain  
A sewer which is for drainage, but excludes Unpolluted industrial cooling waste acceptable in a sewer".)

1.2.19 Township  
This Township.

1.2.20 Wye and Riser  
That portion of public sewer and the proper

#### ARTICLE 2

2.1 Private Systems  
Where a public building sewer shall be system complying with the

2.2 Permit  
Before commencing sewage disposal system permit signed by the Local

2.3 Construction  
Construction of shall comply with the Department. Officials of allowed to inspect the shall not be deemed to thereof is given by the Loc

2.4 Abandonment  
At such time as available to a property system, a direct connection sewer in compliance with cesspools, and similar pits be abandoned after pumped material.

2.5 Maintenance  
The owner shall maintain sewage disposal facilities no expense to the Township.

2.6 Additional Requirements  
No provision shall be construed to interfere with be imposed by the Local Health respect to the construction sewage disposal systems and

2.7 Technical Standards  
The Township may adopt supplementary specifications for the design private sewage disposal facilities shall be available for inspection (reproduction) at the Town Grand Traverse County Board

#### ARTICLE 3 Building

3.1 Permits  
No unauthorized connections with or open public sewer or appurtenance written permit from the Director

3.2 Two Classes  
There shall be two permits: (1) for domestic service. In either case, the application on a special permit