

ORDINANCE NO. 95 - 138

AN ORDINANCE TO AMEND ORDINANCE NO. 100 OF WORCESTER TOWNSHIP ENTITLED THE WORCESTER TOWNSHIP ZONING ORDINANCE OF 1988 AND PARTICULARLY SECTION 200 THEREOF WHICH INCORPORATES THE OFFICIAL WORCESTER TOWNSHIP ZONING MAP BY REZONING THE PROPERTY DESCRIBED HEREIN FROM ITS PRESENT CLASSIFICATION OF R-O RESIDENTIAL OFFICE DISTRICT TO MR MULTI-RESIDENTIAL ZONING DISTRICT.

The Board of Supervisors of Worcester Township hereby ordains:

SECTION 1. Ordinance No. 100 of Worcester Township, known as the Worcester Township Zoning Ordinance, Article II, Establishment of Districts, Section 200, incorporating the Zoning Map of Worcester Township, is hereby amended by rezoning the following land from its current classification of R-O Residential Office District to MR Multi-Residential Zoning District:

ALL THAT CERTAIN tract or parcel of ground situate in the Township of Worcester, County of Montgomery, Commonwealth of Pennsylvania, being shown on a Deed Plot prepared for the DiPrinzio Tract by Urwiler & Walter, Inc., dated May 17, 1993, bounded and described as follows, to wit:

BEGINNING at a point in the centerline of Germantown Pike (75 feet wide as widened to 50 feet on the Southwest side thereof), said point being in the line dividing the lands of Lot #1 and Lot #2, said point being also located the following two (2) courses from the point marking the intersection of the said centerline of Germantown Pike with the centerline of Church Road (as widened to 30 feet on the Northwest side thereof):

- (1) in a Northwesterly direction 236.7 feet to a point
- (2) North 45 degrees 25 minutes 57 seconds West 418.53 feet to a point;

THENCE from said beginning point and extending along the line dividing the lands of Lot #1 and Lot #2, the following three (3) courses and distances:

- (1) South 44 degrees 34 minutes 03 seconds West 502.29 feet to a point
- (2) South 45 degrees 25 minutes 57 seconds East 296.94 feet to a point
- (3) South 80 degrees 31 minutes 14 seconds East 156.62 feet to a point, said point being the Southwesterly most corner of the lands of William and Constance Hershey;

THENCE along the Southwest line of lands of William & Constance Hershey South 43 degrees 40 minutes 42 seconds West 236.78 feet to a point, said point being in the centerline of Church Road aforesaid;

THENCE along the said centerline of Church Road South 44 degrees 47 minutes 27 seconds West 691.84 feet to a point, said point being in the Northeast line of former lands of Breckenridge Inc.;

THENCE along said lands North 49 degrees 33 minutes 16 seconds West 1390.33 feet to a point, said point being in the Southeast line of lands of Berwick Place Development Co.;

THENCE along said lands North 45 degrees 04 minutes 14 seconds East 1171.76 feet to a point, said point being in the centerline of Germantown Pike aforesaid;

THENCE along said Germantown Pike centerline South 45 degrees 25 minutes 57 seconds East 168.47 feet to the POINT AND PLACE OF BEGINNING.

CONTAINING: 14.694 acres of land more or less.

SECTION 2. The provisions of this Ordinance are severable, and if any section, sentence, clause, part, or provision hereof shall be held illegal, invalid, or unconstitutional by any court of competent jurisdiction, such decision of the court shall not affect the remaining sections, sentences, clauses, parts or provisions of this Ordinance. It is hereby declared to be the intent of the Board that this Ordinance would have been adopted if such illegal, invalid, or unconstitutional section, sentence, clause, part, or provision had not been included herein.

SECTION 3. Nothing in this Ordinance or in Ordinance No. 100 of Worcester Township as hereby amended shall be construed to affect any suit or proceeding pending in any court, or any rights acquired or liability incurred, or any permit issued, or any clause or clauses of action existing under Ordinance No. 100 prior to the adoption of this amendment.

SECTION 4. This Ordinance shall take effect and be in force from and after its enactment as required by law.

ENACTED by the Board of Supervisors of Worcester Township after a hearing at a public meeting on the 18th day of January, 1995.

WORCESTER TOWNSHIP
BOARD OF SUPERVISORS

By: John H. Graham
Chairman

Attest: George R. Lewis
Secretary

WORCESTER TOWNSHIP

ORDINANCE NO. 139

AN ORDINANCE TO AMEND ORDINANCE NUMBER 122 OF WORCESTER TOWNSHIP TO ESTABLISH SPECIFIC SPEED LIMITS ON DELL ROAD AND WENTZ CHURCH ROAD.

The Board of Supervisors of Worcester Township hereby adopts an Ordinance amending Ordinance Number 122 as follows:

SECTION 1.

Schedule I attached to Ordinance No. 122 is hereby amended to add the following:

MAXIMUM SPEED LIMITS

<u>NAME OF STREET</u>	<u>SPEED LIMIT</u>	<u>LOCATION</u>
Dell Road	35 mph	entire length
Wentz Church Road	40 mph	entire length

SECTION 2. DISCLAIMER

Nothing in this Ordinance shall be construed to affect any suit or proceeding pending in any court, or any rights acquired or liability incurred, or any permit issued, or any cause or causes of actions existing under the ordinance of the Township of Worcester prior to enactment of this Ordinance.

SECTION 3. SEVERABILITY

The provisions of this Ordinance are severable, and if any section, sentence, clause, part or provision hereof shall be held illegal, invalid or unconstitutional by any court of competent jurisdiction, such decision of the court shall not affect or impair the remaining sections, sentences, clauses, parts or provisions of this Ordinance. It is hereby declared to be the intent of the Board that this Ordinance would have been adopted as if such illegal, invalid or unconstitutional section, sentence, clause, part or provision had not been included herein.

SECTION 4. EFFECTIVE DATE

This Ordinance will take effect and be in force from and after its approval as required by law. **ORDAINED AND ENACTED** by the Board of Supervisors of the Township of Worcester, Montgomery County, Pennsylvania this 19th day of April, 1995.

WORCESTER TOWNSHIP

By: John H. Graham
JOHN H. GRAHAM, CHAIRMAN
BOARD OF SUPERVISORS

ATTEST: George R. Lewis
GEORGE R. LEWIS, SECRETARY

WORCESTER TOWNSHIP

ORDINANCE NO. 140

AN ORDINANCE AMENDING THE WORCESTER TOWNSHIP ZONING ORDINANCE OF 1988 INCLUDING THE WORCESTER TOWNSHIP ZONING MAP, WITH PROVISIONS INCLUDING THE FOLLOWING:

(1) CREATING A NEW R-AG-200 RESIDENTIAL-AGRICULTURAL DISTRICT WHICH, IN ADDITION TO PERMITTING DEVELOPMENT UNDER THE EXISTING AGRICULTURAL DISTRICT, ALSO PERMITS, BY CONDITIONAL USE, A CLUSTER OPTION DEVELOPMENT OF SINGLE-FAMILY DETACHED DWELLINGS ON LOTS AS SMALL AS 11,000 SQUARE FEET IN AREAS SERVED BY PUBLIC WATER AND SEWER, PROVIDED A MINIMUM OF 30% OF THE TRACT IS PRESERVED AS PERMANENT OPEN SPACE AND FURTHER PROVIDED THAT THE OVERALL DENSITY ON SUCH A TRACT DOES NOT EXCEED 1.65 DWELLINGS PER ACRE;

(2) BY AMENDING SECTION 1501 (B) OF THE R-50 RESIDENTIAL ALTERNATIVE DISTRICT TO PERMIT, BY CONDITIONAL USE, A SINGLE FAMILY DETACHED CLUSTER DEVELOPMENT PURSUANT TO THE REGULATIONS OF THE NEW R-AG-200 RESIDENTIAL-AGRICULTURAL DISTRICT;

(3) BY AMENDING THE WORCESTER TOWNSHIP ZONING MAP TO REDESIGNATE A CERTAIN PARCEL OF LAND FRONTING ON NORTH WALES ROAD, CONSISTING OF APPROXIMATELY 69.87 ACRES AND FURTHER IDENTIFIED ON THE WORCESTER TOWNSHIP TAX MAPS AS BLOCK 23, UNIT 20, (BEING TAX PARCEL NO. 67-00-02662-00-7) AND PREVIOUSLY KNOWN AS THE MCCLURE FARM, FROM ITS CURRENT CLASSIFICATION AS "AGR-AGRICULTURAL DISTRICT" TO A NEW CLASSIFICATION AS "R-AG-200 RESIDENTIAL-AGRICULTURAL DISTRICT."

IT IS HEREBY ORDAINED BY THE BOARD OF SUPERVISORS OF WORCESTER TOWNSHIP THAT:

SECTION A - The following provisions are added to the Township's Zoning Ordinance as Article IV-A:

R-AG-200 Residential-Agricultural District

SECTION 450. Legislative Intent. It is the intent of this Article to permit, as a conditional use, the development of large tracts of ground for single-family residences, while likewise encouraging the preservation of natural resources and environmentally sensitive areas, creating viable open spaces, providing areas for active and passive recreation and encouraging the efficient design and use of streets.

SECTION 451. Use Regulations. A building may be erected or used and a lot may be occupied for any of the following purposes, and no other.

- A. Agriculture.
- B. A single-family detached dwelling (1) in accordance with the regulations and requirements of Article IV (AGR-Agricultural District) of the Worcester Township Zoning Ordinance of 1988; or (2) By conditional use, a cluster development in accordance with section 2610 and sections 452 through 457 of this Article.
- C. Accessory uses in accordance with ARTICLE XXV.

SECTION 452 Lot Area and Width Regulations for Cluster Option.

- A. Tract Size. The minimum contiguous tract size shall be ten (10) acres. For purposes of this Article, the term "tract size" shall be the area measurement of all contiguous ground, as measured from the property boundary lines, which is proposed to be subdivided and developed under the terms of this Article.
- B. Minimum Lot Area.
 - 1. Lots With Public Water and Public Sewer Services - On lots that are served by both public water and public sewer services, eleven thousand (11,000) square feet shall be the minimum lot area that shall be provided for every building lot; provided however, that forty thousand (40,000) square feet shall be the minimum lot size provided for lots directly abutting land in AGR, R-AG-175, R-175, R-150, R-125 or R-100 Zoning District and not otherwise separated by open space having a minimum width of seventy-five (75) feet.
 - 2. Lots Without Public Water and/or Sewer Services - On lots that do not have both public water service and public sewer service, sixty thousand (60,000) feet shall be the minimum lot area provided for every building or use.
- C. Minimum Lot Width. Ninety (90) feet shall be the minimum lot width at the front yard setback line provided for every lot.

SECTION 453 Yard Regulations for Cluster Option.

- A. Front Yard. Thirty (30) feet shall be the minimum size of the front yard on each lot. A corner lot shall have two front yards, each being at least thirty-five (35) feet.

B. Real Yard. Thirty (30) feet shall be the minimum size of the rear yard on each lot, except for lots directly abutting land located in the AGR, R-AG-175, R-175, R-150, R-125 or R-100 Zoning District, in which case, the minimum size of the rear yard shall be forty-five (45) feet.

1. A separate structure accessory to a single-family residential use may be erected in the rear yard not closer to the rear or side property line than ten (10) feet.

C. Side Yards. An aggregate total of twenty-five (25) feet shall be provided for the two side yards with a minimum of ten (10) feet for any one side.

SECTION 454 Coverage Regulations for Cluster Option.

A. Building Coverage. Fifteen percent (15%) shall be the maximum total building coverage on a lot.

B. Impervious Coverage. Thirty-five percent (35%) shall be the maximum total impervious coverage on a lot.

SECTION 455 Height Regulations for Cluster Option.

A. Building Height. Thirty-five (35) feet, not exceeding two and one-half (2-1/2) stories, shall be the maximum height for any building or other structure erected or enlarged in this District.

1. Fifteen (15) feet, not exceeding one and one-half (1-1/2) stories, shall be the maximum height for any structure accessory to a single-family detached dwelling.

SECTION 456 Parking Regulations for Cluster Option.

A. Residential. For each dwelling, no less than two (2) all weather off-street parking spaces shall be provided in accordance with the applicable provisions of Article XXII of the Township Zoning Ordinance.

B. Setbacks. No parking area or driveway shall be located within five (5) feet of any property line, for any use, except as required for normal ingress and egress.

SECTION 457. Special Requirements for Cluster Option.

- A. Non-Dwelling Structures. Swimming pools, tennis courts, and animal shelters may be permitted in this District, subject to the applicable regulations under ARTICLE XXV, "General Provisions" of the Township Zoning Ordinance.
- B. Detention Basins in Yard Areas. Detention basins shall be allowed in yard areas only in accordance with the applicable regulations under ARTICLE XXV, "General Provisions" of the Township Zoning Ordinance.
- C. Open Space. Thirty percent (30%) of the tract within this zoning district shall be provided and designated as open space. The open space shall meet the following requirements:
 - 1. The open space shall provide active recreation or preserve unique features on the site, such as woodlands, historic buildings, rural views or farmland. Open space that does not meet one of these requirements (including steep slopes, floodplains and wetlands) shall be limited to forty percent (40%) of the open space requirement, unless otherwise approved by the Board of Supervisors.
 - 2. Open space may be provided in one (1) or more parcels, but in no event shall any individual parcel be less than (2) acres, unless otherwise approved by the Board of Supervisors.
 - 3. All open space shall have access from a road, street or walking trail. Where deemed appropriate by the Board of Supervisors, access to the open space should be provided from the ends of cul-de-sacs.
 - 4. Open space shall be located in a central and readily accessible location, unless otherwise approved by the Board of Supervisors.
 - 5. Open space shall remain undeveloped with the exception of recreation facilities, such as soccer fields, softball fields, playgrounds, tot lots, parking areas for such recreational areas and (with the permission of the Supervisors) storm water management facilities. In developments containing thirty (30) or more lots, the active recreation areas shall be physically constructed, at the cost of the developer, as approved by the Board of Supervisors.

6. Open space shall have minimum road frontage of seventy-five (75) feet unless otherwise approved by the board of Supervisors.

- D. Residential Density. The maximum number of single-family dwellings in a cluster development under this Article shall not exceed a ratio of 1.65 dwellings per acre multiplied by the tract size.

SECTION B - Section 1501(B) of the Worcester Township Zoning Ordinance of 1988 is hereby amended so that it shall hereafter read as follows:

"B. Single-family, detached dwellings:

1. In accordance with the regulations and requirements of Article VII of the Zoning Ordinance of 1988; or
2. In accordance with the regulations and requirements of Article IV-A, Section 451(B)(2) of the Worcester Township Zoning Ordinance of 1988, as amended.

SECTION C - The Official Zoning Map of Worcester Township is Hereby Amended by Rezoning the Property described on Exhibit "A" attached hereto, Fronting on North Wales Road and Consisting of Approximately 69.87 Acres and Identified Generally on the Worcester Township Tax Maps as Block 23, Unit 20 and being Montgomery County Tax Parcel No. 67-00-02662-00-7 from its Current Classification as "AGR-Agricultural District" to a new Classification as "R-AG-200 Residential-Agricultural District."

SECTION D - ADDITIONAL PROVISIONS.

1. Severability. The provisions of this Ordinance are severable, and if any section, sentence, clause, part or provision hereof shall be held illegal, invalid, or unconstitutional by any court of competent jurisdiction, such decision of the court shall not affect or impair the remaining sections, sentences, clauses, parts or provisions of this Ordinance. It is hereby declared to be the intent of the Board that this Ordinance would still have been adopted if such illegal, invalid or unconstitutional section, sentence, clause, part or provision had not been included herein.

2. Failure to Enforce Not a Waiver. The failure of the Township to enforce any provision of this Ordinance shall not constitute a waiver by the Township of its rights of future enforcement hereunder.

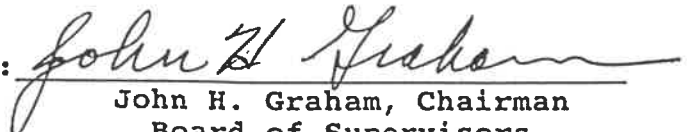
3. Effective Date. This Ordinance shall take effect and be in force from and after its approval as required by law.

ORDAINED AND ENACTED by the Board of Supervisors of the Township of Worcester, Montgomery County, Pennsylvania, this 21 day of JUNE, 1995.

Attest:

WORCESTER TOWNSHIP


George R. Lewis, Secretary

By: 
John H. Graham, Chairman
Board of Supervisors

JJG:vbw
042895

WORCESTER TOWNSHIP
ORDINANCE NO. 141

AN ORDINANCE TO AMEND ORDINANCE NO. 74 OF WORCESTER TOWNSHIP ENTITLED "THE WORCESTER TOWNSHIP SUBDIVISION AND LAND DEVELOPMENT ORDINANCE OF 1975"

BY ADDING REGULATIONS FOR STORMWATER MANAGEMENT

WHEREAS the Board of Supervisors of Worcester Township desires to promote protection of the Township land resources:

The Board of Supervisors of Worcester Township does hereby enact and ordain that Ordinance No. 74, the Subdivision and land Development Ordinance of Worcester Township, is amended as follows:

Section 510: Storm Drains, Storm and Surface Drainage, is hereby stricken in its entirety and replaced with the following:

SECTION 510
STORMWATER MANAGEMENT

Section 510. STORMWATER MANAGEMENT

A. General Requirements.

- (1) Storm Drainage Required. A storm sewer system and all appurtenances shall be required to be constructed by the owner or subdivider in any area from which the surface or subsurface drainage could impair public safety or cause physical damage to adjacent lands or public property. The system shall be designed to collect water at any point where four (4) cubic feet per second or greater is accumulated at the bottom of all vertical grades and immediately upgrade from all street intersections. The system shall discharge to the nearest practical natural drainage channel or storm system. Where the nearest practical natural drainage channel or storm system is beyond the boundaries of the property being developed, the developer shall either (1) provide the Township with copies of appropriate stormwater easements over any land between the property being developed and the nearest practical natural drainage channel or storm system (such easements to be satisfactory in form in the opinion of the Township Solicitor); or (2) return any stormwater which has been collected in a detention basin or other stormwater facility to a sheet flow condition before leaving the property being developed in such a manner as will not result in erosion or flooding of adjoining properties and in such a design as shall be approved by the Township Engineer.

- (2) Off-Site Improvements. Any increase in runoff may require necessary corrective measures, including deeds of easement, deemed appropriate by the Board of Supervisors to alleviate any off-site drainage problem affected by the subdivision or land development. The costs for such measures will be borne entirely by the developer or subdivider.
- (3) Total Watershed Evaluation. The future use of undeveloped areas upstream, as shown on the approved Township Comprehensive Plan, shall be taken into account in the design of all storm sewer systems. The capacity and maximum anticipated present flow of the capacity and maximum anticipated present flow of the body or system receiving the proposed system(s) discharge shall be calculated to verify its capability of receiving any additional flow caused by the development or subdivision. The runoff from any proposed development shall be subject to an evaluation which includes the anticipated runoff from other existing or proposed developments within the same watershed. Stormwater management facilities designed to serve more than one (1) property of development in the same watershed are encouraged. Consultation with the township is required prior to the design of such facilities.
- (4) Underdrains. All building foundations, grade slabs and cellar floors located in soils that have a community development limitation degree of moderate to severe seasonal high-water table, as defined by on-site soils test witnessed by the Township Engineer, shall be provided with an underdrain system. This system shall provide for drainage of the enclosed volume above the slab and relief of subsurface water to a depth of no less than six (6) inches below the slab or foundation bottom. The system shall consist of a perforated pipe field of the herringbone or gridiron configuration in coarse, gravel-filled trenches that are in direct contact with the slab or foundation subbase. The excavation shall provide a minimum of five one-hundredths (0.05) foot/foot slope to the gravel-filled trenches.
- (5) Drainage From Natural Sources. Water originating from other than natural sources, such as swimming pools, air-conditioning units, sump pumps or other dry-weather flow, shall be discharged into natural watercourses on the property or connected to the storm drainage system of the township. Pollutational matter may not be deposited into natural watercourses or storm drains.

- (6) Responsibility of Developer. Any developer or property owner is advised that (notwithstanding approved plans) they are ultimately responsible for a stormwater system which ultimately meets the requirements of the Pennsylvania Stormwater Act and does not cause erosion or flooding on adjoining properties. Notwithstanding approval by the Township Engineer or Board of Supervisors, if field conditions prove an approved plan to be unworkable or ineffective, the necessary corrections will still be the responsibility of the developer or property owner.

B. Stormwater Management Plan.

- (1) General Requirements. For all subdivision and land development proposals, a stormwater management plan and report shall be submitted containing, but not limited to, the following:
- (a) A suitable map of the total watershed (a United States Geological Survey Quadrangle Map is sufficient) with pre-development and post-development areas outlined.
 - (b) Suitable maps and drawings showing all existing and proposed drainage facilities affecting the subject property.
 - (c) A plan of the proposed stormwater drainage system attributable to the subdivision or land development.
 - (d) The design computations for the stormwater drainage systems, including storm-drain pipes and inlets, runoff control measures and culverts and drainage channels.
 - (e) A plan of the grading of the subject subdivision or land development.
 - (f) A plan of the erosion and sedimentation procedures to be utilized.
- (2) Stormwater Drainage Plan. A complete plan of the stormwater drainage system, showing all pipes, swales, channels, structures and detention basins, shall be submitted as part of the stormwater management plan. The drainage areas into each inlet or structure must be delineated on the plan of the storm drainage system.

(3) Storm-Drain Pipes and Inlets. All pipes and inlets shall meet material capacity and construction specifications as outlined in the latest revisions of the PennDot Form 408 and the PennDot Design Manual.

(a) Design Flow Rate. The storm drain system shall be designed to carry a 50-year peak flow rate. The design 50-year peak flow rate into each inlet shall be indicated on the stormwater drainage plan. The 50-year flow rate shall be determined by the rational formula as follows:

$$Q = CIA$$

Where

Q = Peak runoff in cubic feet per second (cfs).

C = Runoff coefficient equal to the ratio of the peak runoff rate to the average rate of rainfall over a time period equal to the time of concentration.

I = Average rainfall intensity in inches per hour for a time equal to the time of concentration.

A = Drainage area in acres.

NOTE: Appropriate values of the runoff coefficient and rainfall intensity can be found in the Commonwealth of Pennsylvania Department of Transportation Design Manual, Part 2, Highway Design, Chapter 12.

(b) Overflow System. An overflow system shall be provided to carry flow to the detention basin when the capacity of the storm-drain pipe system is exceeded. The overflow system shall be of sufficient capacity to carry the difference between the 100-year and the 50-year peak flow rates.

(c) Inlet Capacity.

[1] All inlets must be designed to accommodate the 50-year peak flow rate. The capacity of all C-, M- or S-type inlets shall be determined from the Commonwealth of Pennsylvania Department of Transportation Design Manual, Part 2, Highway Design.

[2] The design capacity of all four (4) foot special inlets shall be five and five-tenths (5.5) cubic feet per second, and all 6 foot special inlets, the design capacity shall be six and five tenths (6.5) cubic feet per second. The capacity of each inlet shall be indicated on the stormwater drainage plan.

(d) Straight Pipe Sections. Wherever possible, all storm-drain pipes shall be designed to follow straight courses. No angular deflections of storm sewer pipe sections in excess of five degrees (5) shall be permitted. No vertical curves shall be permitted in the storm-drain pipe system.

(e) Minimum Grade and Size. All storm-drain pipes shall be designed to maintain a minimum grade of one-half percent (.5%). All storm pipes shall have a minimum inside diameter of fifteen (15) inches or a cross-sectional area of one hundred seventy-six (176) square inches, except that pipes under a fill of twenty-five (25) feet or greater shall not be less than twenty-four (24) inches or have a cross-sectional area of less than four hundred fifty-three (453) square inches.

Reinforced concrete pipe shall be used in all public rights-of-way and when the pipe is subject to vehicular or excessive overburden loading conditions; with corrugated metal pipe permitted only within field or lawn areas as approved by the Township Engineer.

(f) Pipe Capacity. The capacity of all pipe culverts shall, as a minimum, provide the required carrying capacity as determined by the following sources:

United States Department of Commerce
Bureau of Public Roads
Hydraulic Engineering Circular No. 5
Hydraulic Charts for the Section of Highway
Culverts
United States Department of Commerce
Bureau of Public Roads
Hydraulic Engineering Circular No. 10
Capacity Charts for the Hydraulic Design of
Highway Culverts

(g) Pipe Arches. Where headroom is restricted, equivalent pipe arches may be used in lieu of circular pipe.

- (h) Allowable Headwater Depth. At all inlets or manholes, the maximum allowable headwater depth shall be one (1) foot below the top of the inlet grate or the manhole cover.
 - (i) Horizontal Pipe Deflections. A manhole or inlet shall be provided at all horizontal deflections in the storm pipe system exceeding five degrees (5).
 - (j) Minimum and Maximum Cover. A minimum of three (3) feet of cover shall be maintained over all storm-drain pipes. The top of storm-drain pipes shall be at least one-half (1/2) foot below subgrade elevation. The maximum cover over storm-drain pipes shall be ten (10) feet unless special structural design calculations are submitted or approved.
 - (k) Match Crowns. The crowns of all pipes tying into an inlet or manhole shall be set at equal elevations.
 - (l) Diversion of Runoff. All storm-drain pipes shall be designed to carry the runoff into a detention basin or similar facility utilized to control the rate of runoff.
- (4) Runoff Control Measures.
- (a) Runoff Control. The rate of stormwater runoff from any proposed subdivision or land development shall not exceed the rate of runoff prior to development. Where, in the judgement of the Township Engineer, the quantity of stormwater runoff will cause detrimental downstream impact, quantity will be a consideration in the method of stormwater regulations. This standard shall be maintained for all storms, i.e., both high-frequency and low-frequency.
 - (b) Runoff Control Devices. The increased runoff which may result from subdivisions or land developments shall be controlled by permanent runoff control measures that will provide the required runoff control specified above. All runoff control devices will be evaluated for the effectiveness to maintain the above-mentioned standard for all storms with a return period of up to one hundred (100) years.

- (c) Detention Basin Versus Other Available Methods. In many respects, the detention basin is the most desirable technique for controlling the rate of runoff from subdivisions and land developments. However, the use of other available runoff control measures is strongly encouraged. Runoff control measures other than detention basins include seepage or retention basins, pervious pavement and diversions. All pertinent detention basin design standards shall be applicable to seepage and retention basins.
- (d) Groundwater Recharge. In general, all runoff control measures shall be designed to encourage groundwater recharge and shall be permitted only if suitable subsurface conditions are present. The on-site recharge of all stormwater runoff shall be required if the Board of Supervisors determines that conditions so warrant.
- (e) Regional Detention Basin. The use of regional detention basins to combine and eliminate numerous smaller basins is encouraged. Consultation with the township is required prior to design of a regional detention basin.
- (f) Design of Detention Basins. All detention basins shall be designed as per procedures developed by the United States Department of Agriculture, Soil Conservation Service, as outlined in its Technical Release No. 55, Urban Hydrology for Small Watersheds.
- (g) Basin Design Criteria. The following design criteria shall be used in the design of all detention basins in the township. The basins shall be designed to detain the quantity of water resulting from a 100-year, 24-hour storm (see the Soil Conservation Service Technical Release No. 55), under full development conditions released at a maximum outflow rate equal to that resulting from a 10-year, 24-hour storm, under present conditions. All flows in excess of the above-mentioned standard shall flow over an emergency spillway. The Board of Supervisors, upon consultation with the Township Engineer, may choose to relax this criteria on the individual project basis, if it is conclusively demonstrated by the applicant that a relaxed criteria will provide a more beneficial overall stormwater management technique. However, in no case will the criteria be relaxed beyond allowing the quantity resulting from a 100-year, 24-hour

storm, under full development conditions to be released at a maximum outflow rate equal to that resulting from a 100-year, 24-hour storm, under present conditions.

- (h) Perforated Riser. A perforated riser shall be provided at the outlet of all detention basins. The riser shall be constructed of metal or concrete. The riser shall extend to an elevation two (2) feet below the crest elevation of the emergency spillway. The perforated riser shall be designed so that the rate of outflow is controlled by the pipe barrel through the basin berm when the depth of water within the basin exceeds the height of the riser. Circular perforations with a maximum diameter of one (1) inch shall be spaced eight (8) inches vertically and twelve (12) inches horizontally. The perforations shall be cleanly cut and shall not be susceptible to enlargement. All metal risers shall be suitably coated to prevent corrosion. A trash rack or similar appurtenance shall be provided to prevent debris from entering the riser. All risers shall have a concrete base attached with a watertight connection. The base shall be of sufficient weight to prevent flotation of the riser. An anti-vortex device, consisting of a thin vertical plate normal to the basin berm, shall be provided on the top of the riser. A suitable perforated riser design is outlined in the Erosion and Sediment Control Handbook, Montgomery County Soil and Water Conservation Service, United States Department of Agriculture.
- (i) Maximum Depth of Detention Basins. In general, the maximum depth of water in a detention basin shall not exceed five (5) feet.
- (j) Emergency Spillway. Whenever possible, the emergency spillway for detention basins shall be constructed on undisturbed ground. Emergency spillways shall be constructed of reinforced concrete, vegetated earth, concrete rubble or other approved material. All emergency spillways shall be constructed so that the detention basin berm is protected against erosion. The minimum capacity of all emergency spillways shall be such that the combined capacity of the emergency spillway and the principal pipe barrel equal the peak flow rate from the 100-year design storm. The dimensions of the emergency spillways can be determined from the Montgomery County Erosion and Sediment Control

Handbook. Emergency spillways shall extend along the upstream and downstream berm embankment slopes. The upstream edge of the emergency spillway shall be a minimum of three (3) feet below the spillway crest elevation. The downstream slope of the spillway shall, as a minimum, extend to the top of the berm embankment. The emergency spillway shall not discharge over earthen fill and/or easily erodible material.

- (k) Anti-Seep Collars. Anti-seep collars shall be installed around the principal pipe barrel within the normal saturation zone of the detention basin berms. The anti-seep collars and their connections to the pipe barrel shall be watertight. The anti-seep collars shall extend a minimum of two (2) feet beyond the outside of the principal pipe barrel. The maximum spacing between collars shall be fourteen (14) times the minimum projection of the collar, measured perpendicular to the pipe. The use of an O-ring pipe is required for all detention discharge pipes.
- (l) Freeboard. Freeboard is the difference between the design flow elevations in the emergency spillway and the top of the settled detention basin embankment. The minimum freeboard shall be two (2) feet.
- (m) Slope of Detention Basin Embankment. The maximum slope of earthen detention basin embankments shall be three to one (3:1). The top or toe of any slope shall be located a minimum of five (5) feet from any property line. Whenever possible, the side slopes and basin shape shall be amenable to the natural topography. Straight side slopes and rectangular basins shall be avoided whenever possible.
- (n) Width of Berm. The minimum top width of detention basin berms shall be ten (10) feet.
- (o) Slope of Basin Bottom. In order to ensure proper drainage of the detention basin, a minimum grade of two percent (2%) shall be maintained for all sheet flow. A minimum grade of one-half percent (.5%) shall be maintained for all channel flow.

- (p) Low Flow Channel. Low flow channels shall be constructed on the basin floor extending from all inflow structures to the outflow structure. The low flow channel shall be constructed of a minimum of four (4) inches of concrete. The center of the low flow channel shall be lower than the outside edges by six (6) inches, thus creating a swale to carry the flow to the outflow structure, causing little or no erosion of the basin floor. A footer on both sides of the channel shall be placed to a minimum depth of six (6) inches.
- (q) Energy Dissipators. Energy dissipating devices (rip-rap, end sills, etc.) shall be placed at all basin outlets.
- (r) Design Information. As part of the stormwater management plan and report, all design information shall be submitted including, but not limited to, the following:
- [1] General description of proposed facilities and the operation of the runoff control measures.
 - [2] All computations of the stormwater runoff before, during and after construction, including all supporting material.
 - [3] A sketch of the berm embankment and outlet structure, indicating the embankment top elevation, embankment side slopes, top width of embankment, emergency spillway elevation, perforated riser dimensions and spacing of anti-seep collars.
 - [4] Design computations for the pipe barrel and perforated riser.
 - [5] A plot of the stage/storage (acre/feet versus elevation) and all supporting computations.
 - [6] Flood routing computations.
 - [7] A detailed plan of the trash rack and anti-vortex device.
 - [8] A plan, at a scale of one (1) inch equals fifty (50) feet, showing the grading and landscaping around the detention basin.

- (s) The distance from the highest free water surface of any detention basin or drainage facility to a dwelling unit shall be a minimum of one hundred (100) feet.

(5) Culverts and Drainage Channels.

- (a) Design Flow Standards. All culverts and drainage channels shall be designed to carry a flow rate equal to a 50-year, 24-hour storm (Soil Conservation Service, Technical Release No. 55).
- (b) Erosion Prevention. All drainage channels shall be designed to prevent the erosion of the bed and bank areas. The flow velocity in all vegetated drainage channels shall not exceed the maximum permissible velocity to prevent erosion. Suitable bank stabilization shall be provided where required to prevent erosion of the drainage channels. Where storm sewers discharge into existing drainage channels at an angle greater than thirty degrees (30) from parallel to the downstream channel flow, the far-side bank shall be stabilized by the use of rip-rap or masonry and/or concrete walls. The stabilization shall be designed to prevent erosion and frost heave under and behind the stabilization media.
- (c) Maximum Side Slope. Any vegetated drainage channel requiring mowing of the vegetation shall have a maximum grade of three (3) horizontal to one (1) vertical on those areas to be mowed.
- (d) Design Standard. Because of the critical nature of vegetated drainage channels, they shall, as a minimum, conform to the design procedures outlined in the Montgomery County Erosion and Sediment Control Handbook. Several acceptable sources outline procedures for non-vegetated drainage channels, including the following:

- Bureau of Public Roads
- Hydraulic Engineering Circular No. 5
- Hydraulic Charts for the Selection of Highway Culverts
- Federal Highway Administration
- Hydraulic Engineering Circular No. 13
- Hydraulic Design of Improved Inlets for Culverts

(6) Detention Basin Landscaping.

- (a) Topsoil. A minimum of six (6) inches of topsoil material shall be placed on all areas affected by the basin construction (bottom of basin, side slopes, top of berm, etc.). The material must meet the requirements of the Pennsylvania Department of Transportation Form 408 Specifications, as amended.
- (b) Drainage Channels and Retention Areas. All storm drainage channels and retention areas, whether existing or proposed, shall be graded and planted to effectively naturalize area(s) so as to become an integral and harmonious part of the landscape by contour and type of plant material employed.
- (c) Basin Landscaping. All basins shall be planted and landscaped in accordance with Section 514F.g of the Worcester Township Subdivision and Land Development Ordinance, as amended by Ordinance No. 131 on May 19, 1993 by the Township Board of Supervisors.

C. Disclaimer.

Nothing in this Ordinance shall be construed to affect any suit or proceeding pending in any Court, or any rights acquired or liabilities incurred, or any permit issued, or any cause of causes of actions existing under the Ordinances of the Township of Worcester prior to enactment of this Ordinance.

D. Severability.

The provisions of this Ordinance are severable and if any section, sentence, clause, part or provision thereof shall be held illegal, invalid or unconstitutional by any Court of competent jurisdiction, such decision of the Court shall not affect or impair the remaining sections, sentences, clauses, parts or provisions of this Ordinance. It is hereby declared to be the intent of the Board that this Ordinance would have been adopted as if such illegal, invalid or unconstitutional section, sentence, clause, part or provision had not been included herein.

E. Failure to Enforce Not a Waiver.

The failure of the Township to enforce any provision of this Ordinance shall not constitute a waiver by the Township of its right to future enforcement hereunder.

F. Ratification.

Any Township ordinances which are not replaced, changed or affected by implication by the language of this Ordinance are hereby ratified and confirmed.

G. Effective Date.

This Ordinance shall take effect and be enforced from and after its approval as required by law.

ENACTED AND ORDAINED by the Board of Supervisors of Worcester Township, Montgomery County, Pennsylvania, this *15th* day of *August* 1995.

WORCESTER TOWNSHIP

BY: *John H. Graham*
JOHN H. GRAHAM, CHAIRMAN

ATTEST: *George R. Lewis*
GEORGE R. LEWIS, SECRETARY

ORDINANCE NO. 95- 142

AN ORDINANCE OF WORCESTER TOWNSHIP CREATING THE OFFICE OF TOWNSHIP MANAGER; SPECIFYING THE PROCEDURE FOR ELECTION OF THE TOWNSHIP MANAGER BY THE BOARD OF SUPERVISORS; SPECIFYING THE POWERS AND DUTIES OF THE TOWNSHIP MANAGER; REQUIRING THE POSTING OF BOND BY THE PERSON SO ELECTED; AND SPECIFYING THE OTHER TOWNSHIP OFFICES COMPATIBLE AND INCOMPATIBLE WITH THE OFFICE OF TOWNSHIP MANAGER.

The Board of Supervisors of Worcester Township hereby adopts an Ordinance consistent with the provision of Section 599.1 of the Second Class Township Code, 53 P.S. §65599.1 as follows:

SECTION 1. PURPOSE AND INTENT.

A. The purpose of this Ordinance is to enable Worcester Township to function under generally accepted principles of the Council-Manager form of government. The Board of Supervisors shall be responsible for legislative policy-making and for appointing a professional Township Manager who, in consultation with the Board of Supervisors, shall be responsible for supervising and conducting the administrative affairs of the Township as well as for carrying out all policies and programs established by the Board.

SECTION 2. POSITION.

The position of Township Manager is hereby established in and for the Township of Worcester, Montgomery County, Pennsylvania.

SECTION 3. APPOINTMENT AND REMOVAL.

The Township Manager shall be appointed for an indefinite term by a majority of all members of the Board of Supervisors. Unless otherwise specified in a written contract, the Manager shall serve at the pleasure of the Board and may be removed, with or without cause, at any time by a majority vote of all of its members.

SECTION 4. QUALIFICATIONS; RESIDENCY REQUIREMENTS.

A. The Township Manager shall be chosen solely on the basis of executive and administrative abilities, with special reference to training and/or experience in municipal management. During his or her tenure, the Manager shall not hold any other elected governmental office.

B. Although it is preferred that the Manager be a resident of Worcester Township, Township residency shall not be a requirement for appointment as Township Manager. While in office, the Township Manager may reside outside Worcester Township with the approval of the Board.

SECTION 5. BOND.

Before entering upon his or her duties, the Township Manager shall give a bond to the Township, with an approved bonding company as surety, in the sum of One Hundred Thousand Dollars (\$100,000.00), conditioned upon the faithful performance of his or her duties with the premium for such bond to be paid from the general fund of the Township.

SECTION 6. COMPENSATION.

The salary of the Township Manager shall be fixed from time to time by resolution or by specific identification of such compensation in the annual budget of the Township. Such resolution or identification may reflect contractual arrangements previously made between the Township and the Township Manager.

SECTION 7. POWERS AND DUTIES.

A. The Township Manager shall be the chief administrative officer of the Township and shall be responsible to the Board of Supervisors as a whole for the proper and efficient administration of the affairs of the Township. The powers and duties of administration of all day-to-day Township business shall be vested in the Manager, unless expressly imposed or conferred by statute, ordinance or resolution upon other Township officers.

SECTION 8. PROCEDURAL LIMITATIONS ON THE BOARD OF SUPERVISORS.

A. In the relationship between the Board of Supervisors and the Township Manager, the Board shall act as a body in all of its dealings with the Manager. Individual members of the Board shall refrain from interfering with the Manager or any authorized personnel of the Township in the performance of their duties.

B. Nothing in this Ordinance shall prevent the Board from reviewing or establishing a committee of its own members to review the operations and legislative needs of the Township departments or from assigning its members to liaison relationships with the boards, commissions and authorities.

SECTION 9. INCOMPATIBLE OFFICES.

The office of Township Manager shall, consistent with the Second Class Township Code of the Commonwealth of Pennsylvania, be deemed incompatible with the office of Township Supervisor. The office of Township Manager shall not, however, be deemed incompatible with the office of Township Secretary, Township Treasurer or any other Township office or employment except that of Supervisor.

SECTION 10. REPEALER.

The Worcester Township Board of Supervisors, by virtue of this Ordinance, hereby repeals all other previous Worcester Township Ordinances or Resolutions insofar as they are inconsistent with this Ordinance.

SECTION 11. DISCLAIMER.

A. Nothing in this Ordinance shall be construed to affect any suit or proceeding pending in any court, or any rights acquired or any liabilities incurred, or any permits issued, or any cause or causes of action existing under the ordinances of the Township of Worcester prior to the enactment of this Ordinance.

SECTION 12. SEVERABILITY.

A. The provisions of this Ordinance are severable, and if any section, sentence, clause, part or provision hereof shall be held illegal, invalid, or unconstitutional by any court of competent jurisdiction, such

decision of the court shall not affect or impair the remaining sections, sentences, clauses, parts or provisions of this Ordinance. It is hereby declared to be the intent of the Board that this Ordinance would have been adopted as if such illegal, invalid or unconstitutional section, sentence, clause, part or provision had not been included herein.

SECTION 13. EFFECTIVE DATE.

A. This Ordinance shall take effect and be in force from and after its approval as required by law.

ORDAINED AND ENACTED by the Board of Supervisors of Worcester Township, Montgomery County, Pennsylvania, this 15 day of November A.D. 1995.

WORCESTER TOWNSHIP

Attest: George R. Lewis
George R. Lewis, Secretary

By: John H. Graham
John H. Graham, Chairman
Board of Supervisors

JJG:vbw
102495

WORCESTER TOWNSHIP
ORDINANCE NO. 95 - 143

SUPERVISOR COMPENSATION

AN ORDINANCE IMPLEMENTING ACT 60 OF 1995 ENACTED BY THE GENERAL ASSEMBLY OF THE COMMONWEALTH OF PENNSYLVANIA, PROVIDING GUIDELINES AND LIMITATIONS FOR COMPENSATION OF SUPERVISORS OF TOWNSHIPS OF THE SECOND CLASS

The following ordinance is hereby adopted by the Board of Supervisors of Worcester Township, Montgomery County.

WHEREAS, the General Assembly of the Commonwealth of Pennsylvania has enacted Act 60 of 1995, setting forth certain guidelines and limitations for the compensation of supervisors of townships of the second class, and

WHEREAS, said act provides that supervisors of townships having a population of not more than 4,999 may be compensated in an amount not to exceed \$1,875.00 per year, and

WHEREAS, the population of Worcester Township is 4,686, and

WHEREAS, the General Assembly by said Act 60 authorizes the board of supervisors of the various townships of the second class to determine the compensation of supervisors subject to the limitations set forth in the act,

NOW, THEREFORE IT IS HEREBY ENACTED AND ORDAINED AS FOLLOWS:

1. Each supervisor of Worcester Township elected or appointed to office on or after the effective date of this ordinance shall receive compensation for attending duly advertised general or special public meetings or hearings of the board of supervisors, or other meetings authorized by the board of supervisors at the rate of \$125.00 for each meeting attended by such supervisor, not to exceed \$1,875.00 per year.

2. Such compensation shall be paid in monthly or quarterly installments.

REPEALER.

The Worcester Township Board of Supervisors, by virtue of this Ordinance, hereby repeals all other previous Worcester Township Ordinances or Resolutions insofar as they are inconsistent with this Ordinance.

DISCLAIMER.

A. Nothing in this Ordinance shall be construed to affect any suit or proceeding pending in any court, or any rights acquired or any liabilities incurred, or any permits issued, or any cause or causes of action existing under the ordinances of the Township of Worcester prior to the enactment of this Ordinance.

SEVERABILITY.

A. The provisions of this Ordinance are severable, and if any section, sentence, clause, part or provision hereof shall be held illegal, invalid, or unconstitutional by any court of competent jurisdiction, such decision of the court shall not affect or impair the remaining sections, sentences, clauses, parts or provisions of this Ordinance. It is hereby declared to be the intent of the Board that this Ordinance would have been adopted as if such illegal, invalid or unconstitutional section, sentence, clause, part or provision had not been included herein.

EFFECTIVE DATE.

A. This Ordinance shall take effect and be in force from and after its approval as required by law.

ORDAINED AND ENACTED by the Board of Supervisors of Worcester Township, Montgomery County, Pennsylvania, this 20 day of ~~December~~ A.D. 1995.

WORCESTER TOWNSHIP

By: John H. Graham
John H. Graham, Chairman

Attest: George R. Lewis
George R. Lewis, Secretary