

***BRANCH TOWNSHIP***  
***SCHUYLKILL COUNTY***  
***PENNSYLVANIA***

***SUBDIVISION AND LAND***  
***DEVELOPMENT ORDINANCE***

**NOVEMBER 22, 2004**

**benesch Project No. 8483.03**

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## **USING THIS ORDINANCE: AN OVERVIEW**

The following describes the most efficient way to use this Subdivision and Land Development Ordinance. The following are general descriptions, but are not part of the actual Subdivision and Land Development Ordinance.

Start by using the following parts of the Subdivision and Land Development Ordinance:

- Turn to the **Table of Contents** to find the pages and sections that apply to your particular situation. You may wish to photocopy the Table of Contents to highlight the relevant sections.
- Turn to **General Procedures** in Article 3, which indicates the general review and submittal process for a proposed subdivision and/or land development.
- Regularly refer to the **Definitions** in Article 2 to determine the meaning of specific words.

There are three (3) types of plan submissions included in this ordinance: Sketch, Preliminary and Final requirements for each plan are included in Articles 6 through 10.

An outline of the Subdivision and Land Development review and approval procedures is included in Article 3. It is as follows:

### **MINOR AND MAJOR SUBDIVISIONS AND LAND DEVELOPMENT**

- STEP 1 Subdivider meets informally with Commission to determine general conformance with Regulations, and to review Sketch Plan and development proposals. Determination if plan is major or minor subdivision is completed.
- STEP 2 Subdivider submits preliminary plan with supporting data to Commission and municipality.
- STEP 3 Commission reviews preliminary plan at a regular meeting.
- STEP 4 After review, Commission notifies subdivider and Board of Supervisors either that plan has been approved, approved with modifications, or disapproved. Subdivider revises plan, if necessary, for Commission approval.
- STEP 5 Following approval of the preliminary plan from the Commission the plan is forwarded to the Board of Supervisors for review at their next regular meeting.

- STEP 6 After review, the Board of Supervisors notifies subdivider either that plan has been approved, approved with modifications, or disapproved. Subdivider revises plan, if necessary, and follows Steps 2 through 6.
- STEP 7 Within one (1) year, subdivider prepares and submits final plan for Commission review. Subdivider may submit only a portion of entire proposed plan as shown on approved preliminary plan, but entire portion must be submitted within five (5) years.
- STEP 8 Commission reviews final plan at regular meeting after having given proper notice for preliminary plans. Concurrently the Zoning Hearing Board will evaluate for conformance to Zoning regulations and notify the Commission of its evaluation. After review, the Commission notifies subdivider and Board of Supervisors of its action on the final plan.
- STEP 9 After plan concurrence by the Commission, the commission submits plans to the county for review.
- STEP 10 Following approval of the final plan from the Commission the plan is forwarded to the Board of Supervisors for review at their next regular meeting.
- STEP 11 After review, the Commission notifies subdivider of the Board of Supervisors action on the final plan. Subdivider revises plan, if necessary, and follows Steps 8 through 10.
- STEP 12 Not later than 90 days after Board of Supervisors action on the final plan, subdivider files his final plan for recording with the County Recorder of Deeds. Subdivider forwards notice of the recording to the Township.

The following two major considerations should be kept in mind when using this Ordinance:

- An applicant may apply to the Board of Supervisors for Modification or Exception if a literal enforcement of this Subdivision and Land Development Ordinance would result in undue hardship. See Article 1, Section 107, which includes the standards that must be met under State law in order to be granted, modification or exception. Generally, under the Pennsylvania Municipalities Planning Code, modification or exception are not permitted unless an applicant proves a “Hardship” and remains consistent with the goals of this Ordinance and Comprehensive Plan.
- All of the requirements of the Branch Township Zoning Ordinance must also be adhered to when a proposed subdivision and land development plan is being designed, laid out and constructed.

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**ARTICLE 1 - GENERAL PROVISIONS**

101. TITLE

An Ordinance providing for the regulation and control of the subdivision and/or the development of land and the approval of plans, plots, or replots of land within the jurisdiction of Branch Township, Schuylkill County, Pennsylvania. Pursuant to the authority set forth in Article V of the Pennsylvania Municipalities Planning Code, as amended, and setting forth procedures to be followed by the Township Planning Commission and the Township Supervisors in applying, administering, and amending these rules, regulations, and standards and prescribing penalties for the violation thereof.

102. SHORT TITLE

This Ordinance shall be known and may be cited as The Branch Township Subdivision and Land Development Ordinance.

103. PURPOSE

The purpose of this ordinance shall be to guide and regulate the planning, subdividing and development of land in order to promote and protect the health, safety, morals, and general welfare of the citizens by:

- A. Assisting in the orderly and efficient integration of land developments within the Township.
- B. Ensuring conformance of land development plans with the Comprehensive Plan and other municipal documents.
- C. Ensuring coordination of inter-municipal and intra-municipal public improvement plans and programs.
- D. Ensuring sites are suitable for building purposes and human habitation.
- E. Facilitating the efficient movement of traffic.
- F. Securing equitable and just processing of all subdivision and land development plans by providing uniform procedures and standards.
- G. Providing for open spaces through efficient design and layout of the land.

H. Securing the preservation of natural and historic features.

I. Stormwater Management and Ground Water Recharge

#### 104. APPLICATION

A. No subdivision or land development of any lot, tract, or parcel of land located within Branch Township shall be effected, and no street, sanitary sewer, water main, stormwater control facilities, gas, oil, or electric transmission line, or other facilities in connection therewith shall be laid out, constructed, opened, or dedicated for public use or travel, or for the common use of occupants of buildings abutting or to abut thereon, except in strict accordance with the provisions of this Ordinance.

B. No lot in a proposed subdivision or land development may be sold, and no final permit to erect, alter or repair any building or structure upon land in a subdivision or land development may be issued unless and until:

1. A Final Plan has been approved and recorded, and

2. Either

a. the Township has been guaranteed by means of a Development Agreement acceptable to the Township Supervisors that the improvements will subsequently be installed, or

b. the required improvements in connection therewith have been constructed.

C. All subdivisions and/or land developments, as defined in Article 2 of this Ordinance, shall be submitted for review by the Branch Township Planning Commission pursuant to the provisions of this Ordinance.

D. A subdivision of any lot which has been involved in three (3) successive minor subdivisions shall comply with the requirements for a major subdivision.

#### 105. EXEMPTIONS

A. Approved Subdivisions.

1. From the time an application for approval of a plat, whether preliminary or final, has been approved or approved subject to conditions acceptable to the Applicant, no subsequent change or amendment in the zoning, subdivision or other governing ordinance or plan shall be applied to adversely affect the

right of the Applicant to commence and to complete any aspect of the approved development in accordance with the terms of such approval within five (5) years from such approval.

2. If final plan approval is preceded by preliminary plan approval, the five (5) year period shall be counted from the date of the preliminary plan approval.

B. Provisions for exclusion from determination of land development:

1. The conversion of an existing single-family detached dwelling or single-family semi-detached dwelling into more than three residential units, unless such units are intended to be a condominium.
2. The addition of an accessory residential building, including farm buildings, on a lot or lots subordinate to an existing principal building.
3. The addition or conversion of buildings or rides within the confines of an enterprise which would be considered an amusement park. For purposes of this sub-clause, an amusement park is defined as a tract or area used principally as a location for permanent amusement structures or rides. The exclusion shall not apply to newly acquired acreage by an amusement park until initial plans for the expanded area have been approved by the proper authorities.

C. Resubdivision

1. Any replatting or resubdivision of land, including changes to record plans and/or the combination of two or more previously approved lots or parcels of land, shall be considered a subdivision and shall comply with the requirements of this ordinance, provided that where lot lines shown on a recorded plan will be changed and all resultant lots will conform to the applicable Zoning Ordinance and this ordinance and easements and rights-of-way will not be changed and street locations and block sizes will not be changed any utility locations will not be changed and open space and recreation areas will not be reduced and the number of lots will not be increased, the Supervisors may permit the subdivider to:
  - (a.) Submit to the Township Planning Commission or Township Secretary or official designated by the Township ten (10) copies of the original plan, ten (10) copies of the revised plan and seven (7) copies of a report describing all changes which have been made. Four (4) copies of all plans and reports shall be submitted by the Township to the County Planning Commission and four (4) copies of all plans and reports to the Township Planning Commission. In addition, if

deemed necessary by the Supervisors, plans shall be submitted to the Township Engineer/Planning Consultant, Township or County Zoning Officer and any other township officials. The Township Planning Commission shall, in writing; advise the subdivider and the township Secretary whether the revised plan complies with subsection C(1).

(b.) When the plan does comply with subsection B(1), the subdivider shall submit the record plan to the Township Secretary for the endorsement of the Township Supervisors. The subdivider shall also submit the record plan to the County Planning Commission for its endorsement (which shall specifically identify the previous record plan and then record the plan if endorsement is secured. If the revised plan initially submitted to the Township Secretary complies with subsection B(1), the Township Supervisors shall endorse the recorded plan within ninety (90) days after initial submission of the plan to the Township Secretary. If the plan does not comply with Subsection C(1), this decision shall also be communicated to the subdivider by the Supervisors within ninety (90) days after submission of the plan to the township.

(2) The record plan shall be a clear and legible black-on-white or blue-on-white print on material acceptable to the Recorder of Deeds.

(3) When on-lot sewage disposal is intended to be utilized, the Supervisors or Planning Commission may require that a copy of the final plan be submitted to the Township Sewage Enforcement Officer for review.

(4) If the revision of lot lines would result in the relocation of driveway access points approved by the Pennsylvania Department of Transportation, the supervisors may require submission of the revised plan to the Pennsylvania Department of Transportation for its comments.

D. Auction Sale - In the case of the proposed subdivision of land by process of auction sale, the following procedure may be used by the subdivider:

(1) The subdivider shall prepare and submit sketch plans and, if required by the township, preliminary plans, in accordance with the requirements of this ordinance.

(2) The sketch plan, or the preliminary plan if a preliminary plan is required by the township, shall comply with the requirements of this ordinance and, in addition, contain the following notation:

“This property is intended to be sold by auction or about (date), in whole or in part according to this plan. Sale of lots at such auction shall be in the form of agreement to purchase, and no actual transfer of ownership or interest in such lots shall proceed until a final plan showing such division of property shall have been approved by the Township Supervisors, in accordance with the Township Subdivision Ordinance, and recorded in the office of the County Recorder of Deeds.”

- (3) After approval of the sketch plan, and preliminary plan, if required, by the Township, the auction sale may then proceed in accordance with the above notation, after which the subdivider shall prepare and submit a final plan in accordance with this ordinance.

E. Lot Annexations.

- (1) Where the conveyance, sale or transfer of land from one parcel to an adjacent parcel is proposed for the sole purpose of increasing lot size, and not for the purpose of creating a separate new lot or a land development, the subdivider may submit only a Sketch Plan of Record to the township rather than submit sketch, preliminary and final plans. The sketch plan shall contain all information required by Section 4.01 of this ordinance and be submitted and reviewed in accordance with Section 3.02. The plan shall be labeled “**Sketch Plan of Record**”.
- (2) Precise bearing and distances from field survey shall be shown for the parcel being transferred, and evidence shall be submitted that the parcel from which the parcel is being transferred will not violate or further violate, any requirement of the applicable Zoning Ordinance or other Township regulations. If development is subsequently proposed for the parcel that has been increased in size, no building or zoning permit shall be issued unless all applicable requirements of township regulations are complied with.
- (3) The subdivision plan shall contain the following notation.

“Parcel/Lot Number \_\_\_\_\_ of this subdivision is for the expressed purpose of annexation to the existing lands of \_\_\_\_\_, Deed/Record Book \_\_\_\_\_; Page Number \_\_\_\_\_ and is not to be considered a separate building lot.”
- (4) The following certification must be placed on the plan and contain the signature of the person(s) accepting the annexation parcel and notary seal and signature.

“On this, the \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_, before me the undersigned officer, personally appeared \_\_\_\_\_, who being duly sworn according to law, deposes and says that he/she is the owner of the property indicated to receive annexation Lot/Parcel Number \_\_\_\_\_ as shown on this plan. As owner of the property, he/she accepts the annexation of said parcel and acknowledges the requirements of annexation of the parcel to his/her existing lands, and that he/she acknowledges that the parcel is for annexation purposes only and is not to be considered a separate building lot.

\_\_\_\_\_ (1)

\_\_\_\_\_ (1)

(2)

\_\_\_\_\_ (3)

(4)

My Commission expires

- (1) signature(s) of individual(s), of partners, or of president of corporation
- (2) if necessary, corporate seal
- (3) signature and
- (4) seal of notary public or other officer
- (5) Proposed legal descriptions for the annexation parcel, annexation parcel combined with the existing parcel and remaining lands of the parcel being subdivided shall be submitted at the time the subdivision is submitted.

106. INTERPRETATION

A. Standards

- 1. The provisions of this Ordinance shall be interpreted and applied as to minimum requirements for the promotion of the public health, safety, comfort, and general welfare.
- 2. Where provisions, standards, and specifications of this Ordinance conflict with those of any State statute, other ordinance or regulations, the greater restriction shall be controlling regardless of its source, unless specified to the contrary.

- B. Illustrations. The illustrations in this Ordinance are not a part of the Ordinance, but are included for purposes of explanation and clarification.

#### 107. MODIFICATIONS AND EXCEPTIONS

- A. Where, owing to special conditions pertaining to the land in question, a literal enforcement of this Ordinance or its accompanying regulations would result in undue hardship, the Township Supervisors may grant modifications and exceptions to one or more provisions, provided that such modification will not be contrary to the public interest and that the purpose and intent of this ordinance is observed.
- B. Proof of unnecessary hardship must be presented to the Township Supervisors by the developer. Any request shall be submitted in writing, citing the specific provision or standards from which relief is required, and should be part of the preliminary or final plan submission. The Township Supervisors and Planning Commission shall review the applicant's request and submit a written report to the Applicant.
- C. The request for an exception shall be reviewed at a public meeting of the Township Supervisors who shall make a decision consistent with the goals of the Comprehensive Plan and the intent of this Ordinance. The modification or exception will not have the effect of nullifying the intent and purposes of these regulations.
- D. Standards May Be Modified - The standards and requirements of these regulations may be modified by the Township Supervisors in the case of plans for complete communities or neighborhood units or other large scale developments which, in the judgment of the Township Supervisors, achieve substantially the objectives of the regulations contained herein and which are further protected by such covenants or other legal provisions as will assure conformity to and achievement of the plan.

#### 108. WAIVER

- A. A subdivider may request a modification or deletion of a requirement of this Ordinance relative to a specific subdivision or land development.
- B. Applications for such waiver shall be in writing (see Section 108 & 306).
- C. The Township Supervisors shall grant or deny the request for such waiver considering the recommendations of the Planning Commission and/or Zoning Hearing Board.

109. FEES

- A. The Branch Township Supervisors has established by resolution a schedule of fees and a collection procedure for all applications and other matters including inspections pertaining to this Ordinance.
- B. Plans shall not be considered for review until all fees are paid and the applications are properly signed.
- C. If the applicant disputes the fees, the applicant can appeal in accordance with Section 503 and Section 510 of the Pennsylvania Municipalities Planning Code, as amended.

110. REVISED PLANS, ALTERNATE PLANS, AND RESUBDIVISIONS

- A. Revised Plans. Until a submission is approved or rejected by the Township Supervisors or Planning Commission, the Applicant may withdraw the submission (or part thereof) and submit a Revised Plan following the submission and review procedures which apply to that plan.
- B. Alternate Plan. If, before a submission is approved or rejected by the Township Supervisors or Planning Commission, the Applicant submits a new plan submission for the subdivision or development of the same lands as the pending submission and does not withdraw the pending submission, the new plan shall be considered an Alternate Plan for which a new submission fee in accordance with the adopted fee schedule shall be required.
- D. Resubdivisions. A revision or resubdivision of a recorded plan or a Final Plan approved by the Township Supervisors shall be considered as a new subdivision and shall come under the jurisdiction of this Ordinance.

111. TOWNSHIP RECORDS

The Township Planning Commission and the Township Supervisors shall keep a record of the findings, decisions, and recommendations relative to all subdivision or land development plans filed for action by the Planning Commission and the Township Supervisors. Such records shall be open to the public for review upon written request.



112. AMENDMENTS

- A. The regulations set forth in this Ordinance may, from time to time, be amended by the Township Supervisors.
- B. Amendments to the ordinance shall become effective only after a public hearing held pursuant to public notice.
- C. In the case of amendment other than that prepared by the Planning Commission, the Township Supervisors shall submit each proposed amendment to the Planning Commission for recommendations at least thirty (30) days prior to the date set for the public hearing on such proposed amendment.
- D. Consideration - The Township Supervisors will give diligent consideration to changes or modifications suggested by any developer when such changes or modifications shall be in the best interests of the general public.

113. APPEALS TO COURTS

Decisions of the Township Supervisors may be appealed in accordance with the Pennsylvania Municipalities Planning Code.

114. ENFORCEMENT

- A. Inspectors. The Township Supervisors shall appoint one or more inspectors, included but not limited to the Township Planning Commission or the Township Engineer, to enforce the provisions of this Ordinance and the accompanying design standards and improvement specifications.
- B. Inspection. Inspection of actual construction under any approved subdivision or land development plan shall be the responsibility of the Township, which shall undertake reasonable measures to provide an adequate inspection to enforce the provisions of this Ordinance on all projects. The construction of the project to conform with the approved plans shall be the responsibility of the developer due to the absence of full time inspection by the Township. Any inspection requested by the Township of the improvements of any approved subdivision will be conducted on an hourly rate basis in accordance with the current Township Engineer Retainer and shall be the financial responsibility of the developer as described in the Fee Schedule. The minimum items that require inspection include, but are not limited to, underground utilities, storm sewer installation, waterline installation, sewer line installation, sub base

placement, paving placement, concrete curbs and sidewalks. Upon preliminary plan review, the Township Engineer will submit a proposal for the scope of work based on the size and complexity of the project.

C. Remedies

1. Any action inconsistent with the provisions of this Ordinance shall be subject to a cease and desist order and other appropriate measures by the Township Supervisors or appointed Township Official.
2. In addition to other remedies, the Township Supervisors may institute and maintain appropriate actions by law or in equity to restrain, correct or abate violations; to prevent unlawful construction; to recover damages; and to prevent illegal occupancy of a building, structure or premises. The description by metes and bounds in the instrument of transfer or other documents used in the process of selling or transferring shall not exempt the seller or transferor from such penalties or from the remedies herein provided.
3. The Township Supervisors shall refuse to issue any permit or grant any approval necessary to further improve or develop any real property which has been developed or which has resulted from a subdivision of real property in violation of any ordinance adopted pursuant to this article. This authority to deny such a permit or approval shall apply to any of the following applicants:
  - a) The owner of record at the time of such violation.
  - b) The vendee or lessee of the owner of record at the time of such violation without regard as to whether such vendee or lessee had actual or constructive knowledge of the violation.
  - c) The current owner of record who acquired the property subsequent to the time of violation without regard as to whether such current owner had actual or constructive knowledge of the violation.
  - d) The vendee or lessee of the current owner of record who acquired the property subsequent to the time of violation without regard as to whether such vendee or lessee had actual or constructive knowledge of the violation.

As an additional condition for issuance of a permit or the granting of an approval to any such owner, current owner, vendee or lessee for the development of any such real property, the Township may require compliance with the conditions that would have been applicable to the property at the time the applicant acquired an interest in such real property.

115. PENALTIES

- A. Any person, partnership or corporation who or which has violated the provisions of

this subdivision or land development ordinance shall, upon being found liable therefore in a civil enforcement proceeding, pay a judgment of not more than \$500 plus all court costs, including reasonable attorney, engineering, and other professional fees incurred by the Township as a result thereof. No judgment shall commence or be imposed, levied or payable until the date of the determination of a violation by the District Justice.

- B. If the defendant neither pays nor timely appeals the judgment, the Township may enforce the judgment pursuant to the applicable rules of civil procedure. Each day that a violation continues shall constitute a separate violation, unless the District Justice determining that there has been a violation further determines that there was a good faith basis for the person, partnership or corporation violating the Ordinance to have believed that there was no such violation, in which event there shall be deemed to have been only one such violation until the fifth day following the date of the determination of a violation by the District Justice and thereafter each day that a violation continues shall constitute a separate violation.
- C. All fines collected for such violation shall be paid to Branch Township, Schuylkill County.

#### 116. SEVERABILITY

It is hereby declared to be the legislative intent that:

- A. If a court of competent jurisdiction declares any provisions of this Ordinance to be invalid or ineffective in whole or in part, the effect of such decision shall be limited to those provisions which are expressly stated in the decision to be invalid or ineffective, and all other provisions of this Ordinance shall continue to be separately and fully effective.
- B. If a court of competent jurisdiction finds the application of any provision or provisions of this Ordinance to any lot, building, structure, or tract of land to be invalid or ineffective in whole or in part, the effect of such decision shall be limited to the person, property, or situation immediately involved in the controversy, and the application of any such provision to other persons, property, or situations shall not be effective.
- C. Branch Township, Schuylkill County hereby declares that it would have passed this Ordinance and each section or part thereof irrespective of the fact that any one or more sections or parts thereof be declared invalid.

#### 117. CONDITIONS

- A. Township Supervisors May Impose Conditions - In granting exceptions and

modifications, the Township Supervisors may impose such conditions as will, in its judgment, secure substantially the objectives of the standards or requirements so modified.

118. REPEALER

All other Township ordinances or parts thereof that were adopted prior to this Ordinance and are in conflict with this Ordinance are hereby repealed.

119. EFFECTIVE DATE

This Ordinance shall become effective on \_\_\_\_\_.

120. ENACTMENT

Enacted and ordained into an Ordinance this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_, effective immediately.

Date of Public Hearing \_\_\_\_\_

ATTEST:

BRANCH TOWNSHIP,  
Schuylkill County, Pennsylvania

\_\_\_\_\_  
Secretary  
Supervisors

By: \_\_\_\_\_  
Chairperson of Township

(SEAL)

Read and approved by me this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_.

\_\_\_\_\_  
Supervisor

## ARTICLE 2 - DEFINITIONS

### 201. GENERAL INTERPRETATION

For the purposes of this Ordinance, words and terms used herein shall be interpreted as follows:

- A. Words in the present tense shall include the future tense.
- B. The singular shall include the plural, and the plural shall include the singular.
- C. The masculine gender shall include the feminine and the neuter and vice-versa.
- D. The word "shall" is always mandatory, the word "should" means a suggested or preferred action, and the word "may" is always permissive.
- E. If a word is defined in both this Subdivision and Land Development Ordinance and another Township Ordinance, each definition shall apply to the provisions of each applicable Ordinance.
- F. The words "such as", "includes", "including", and "specifically" shall provide examples. These examples shall not, by themselves, limit a provision to the examples specifically mentioned if other examples would otherwise comply with the provisions.
- G. Any word or term not defined in this Subdivision and Land Development Ordinance shall be used with a meaning of standard usage.

### 202. DEFINITIONS

When used in this Ordinance, the following words, terms and phrases shall have the following meanings, unless expressly stated otherwise or unless the context clearly indicates otherwise:

Abut. Areas of contiguous lots that share a common lot and line, except not including lots entirely separated by a street or a perennial waterway (see definition of "adjacent").

Access Drive or Accessway. A privately owned, constructed, and maintained vehicular access roadway accessing two (2) or more dwelling units or two (2) or more commercial, institutional or industrial principal uses (see definition of "driveway").

Accessory Building. A building subordinate to the principal building on a lot and used for purposes customarily incidental to those of the principal building.

Adjacent. Includes contiguous lots that share a common lot line or that are separated only by a street or waterway (see definition of "abut").

Agriculture. Shall mean "crop farming", "plant nursery", and "raising of livestock" (see definition of each).

Alley. A right-of-way providing secondary access to the side or rear of one or more properties.

Annexation. The act of adding or joining to; to incorporate into an existing parcel.

Applicant. A landowner or developer, as here in after defined, who has filed an application for a subdivision or land development, including his heirs, successors, and assigns.

Application for Development. Every application, whether preliminary, tentative or final, required to be filed and approved prior to start of construction or development including, but not limited to an application for a building permit, for the approval of a subdivision plat or plan or for the approval of a development plan.

Berm. An earthen embankment which serves purposes such as retaining/detaining the flow of surface water runoff, preventing soil erosion or supporting plant materials to aid in screening.

Block. Property bounded on one side by a street, and on the other three (3) sides by a street, railroad right-of-way, public park, waterway, township lines, unsubdivided or developed area, or any combination thereof.

Block Frontage. That part of a block which fronts on a single street.

Township. The political subdivision known as Branch Township, Schuylkill County, Pennsylvania, unless otherwise noted.

Township Supervisors. The Township Supervisors of Branch Township, Schuylkill County, Pennsylvania, unless otherwise noted.

Buffer Yard. A strip of land that is not occupied by any building, parking, outdoor storage or any other use than open space or approved pedestrian pathway. A buffer yard may be a part of the minimum setback distance, but land within an existing or future street, right-of-way shall not be used to meet buffer yard requirements.

Building. Any structure having a permanent roof and intended for the shelter, work area, housing or enclosure of persons, animals, or property and that has a total volume under roof of greater than 50 cubic feet. "Building" is interpreted as including or part thereof (see the separate definition of "structure"). Any structure involving a permanent roof (such as a covered porch or a carport) that is attached to a principal building shall be considered to be part of that principal building.

Cartway. The portion of a street or highway right-of-way, paved or unpaved, designed for vehicular use.

Catch Basin. An inlet which has a sump below the pipe to collect debris and is designed to intercept and redirect surface waters.

Channel. An area which conveys the normal continuous or intermittent flow of water.

Clear Sight Triangle. An area of unobstructed vision at street intersections defined by lines of sight between points at a given distance from the intersection of the street center lines.

Commission. The Branch Township Planning Commission, unless otherwise noted.

Common Open Space. A parcel or parcels of land or an area of water, or a combination of land and water within a development site and designed and intended for the use or enjoyment of residents of a development, not including streets, off-street parking areas, and areas set aside for public facilities.

Commonwealth. The Commonwealth of Pennsylvania, unless otherwise noted.

Comprehensive Plan. The document entitled Comprehensive Plan for Branch Township, Schuylkill County, Pennsylvania or any part thereof, adopted by the Township Supervisors. In March of 1996 or later versions.

Condominium. A set of individual dwelling units or other areas of buildings each owned by an individual person(s) in fee simple, with the owners assigned a proportionate interest in the remainder of the real estate which is designated for common ownership and which was created under either the Pennsylvania Unit Property Act of July 3, 1963 or the Pennsylvania Uniform Condominium Act of 1980, as amended.

Conservation District. The Schuylkill Conservation District, unless otherwise noted.

Construction. Includes the placing of construction materials in permanent position and fastening in a temporary or permanent position and the demolition of pre-existing building, provided that further construction be diligently carried on.

County. The County of Schuylkill, Commonwealth of Pennsylvania, unless otherwise noted.

County Planning Commission. The Schuylkill County Planning and Zoning Commission, unless otherwise noted.

Crop Farming. The cultivating, raising and harvesting of products of the soil and the storage of these products produced on the premises. "Crop farming" shall also include orchards and Christmas tree farms and raising of limited numbers of livestock as an accessory use, but shall not include intense raising of livestock, commercial forestry, riding academies or kennels.

Crosswalk or Walkway. A strip of land including a right-of-way dedicated to public use in order to facilitate pedestrian access through or into a block.

Cul-de-Sac Street. A local street which is permanently terminated at one end by a vehicular turnaround and at the other end intersects another street.

Culvert. A structure designed to convey water under a street or pedestrian walk.

Datum. A reference point from which elevations are measured. The standard datum is sea level as established by the United States Geological Survey (USGS).

Dedication. The deliberate appropriation of land by its owner for any general and public use, reserving to himself no other rights than such as are compatible with the full exercise and enjoyment of the public uses to which the property has been devoted.

D.E.P. (or DEP). The Pennsylvania Department of Environmental Protection, or its successor, and its relevant subparts.

Detached Building. A building that is surrounded on all sides by open yards and not attached to any other building.

Detention Basin. A structure designed, built and used for the temporary storage of stormwater runoff.

Developer (Subdivider). Any landowner, agent of such landowner, or tenant with permission from a landowner who makes or causes to be made a subdivision of land or land development.

Development of Regional Significance and Impact. Any land development that, because of its character, magnitude, or location will have substantial effect upon the health, safety, or welfare of citizens in more than one municipality.



Development Agreement. An agreement (in a form and manner acceptable to the Township) requiring a developer to install the improvements required by this Ordinance and any improvements or amenities which appear on the plan in accordance with the requirements of this Ordinance.

Ditch. A small drainage channel.

Diversion Channel. A channel constructed on, across, or at the bottom of a slope.

Double Frontage Lot. A lot extending between and having frontage on two streets.

Driveway. A privately owned, constructed, and maintained vehicular access from a street or access drive to one (1) dwelling unit, commercial unit, institutional or industrial principal use (see definition of access drive).

Dwelling (Residence, Residential Structure). A building containing one (1) or more dwelling units. A building used as non-transient living quarters, but not including a boarding house, hotel, motel, hospital, nursing home, dormitory, fraternity, sorority house, automobile court, rooming house, tourist home, or other group residence. This Subdivision and Land Development Ordinance categorizes dwellings into the following:

- A. Conversion Apartment. A new dwelling unit created within an existing building within the standards of the Branch Township Zoning Ordinance.
- B. Apartment. Three or more dwelling units within a building that are separated by only horizontal floors or by a combination of horizontal floors and vertical walls (see definition of "townhouses" below). The individual dwelling units may be leased or sold for condominium ownership.
- C. Sectional or "Modular" Home. A type of dwelling that meets a definition of single family detached dwelling, single family semi-detached dwelling, townhouse or garden apartment that is substantially but not wholly produced in two or more major sections off the site and then is assembled and completed on the site, and that does not meet the definition of a "mobile/manufactured home" and that is supported structurally by its exterior walls and that rests on a permanent foundation.
- D. Single-Family Detached Dwelling. One dwelling unit in one building accommodating only one family and having open areas on all sides.
  1. Mobile/Manufactured Home. A type of single-family detached dwelling that meets all of the following requirements: a) is transportable, b) is designed for permanent occupancy, c) is contained in a single piece, or two substantial pieces designed to be joined into one integral unit capable of again being separated for repeated towing, d) which arrives at a site complete and ready for occupancy except for minor and

incidental unpacking and assembly operations, e) is constructed so that it may be used with or without a permanent foundation, f) is not a "Recreation Vehicle", and g) includes a minimum of 300 square feet of interior floor space. The terms "mobile home" and "manufactured home" have the same meaning.

- E. Single Family Semi-Detached Dwelling Half of a Twin Dwelling. One dwelling unit accommodating one family that is attached to and completely separated by a vertical unpierced fire resistant wall to only one additional dwelling unit. One side yard shall be adjacent to each dwelling unit. This use is commonly known as one-half of a duplex. Each unit may or may not be on a separate lot.
- F. Townhouse. One dwelling unit that is attached to two or more dwelling units, and with each dwelling unit being completely separated from and attached to each other by unpierced vertical fire-resistant walls. Each dwelling unit shall have its own outside access. Side yards shall be adjacent to each end unit. Townhouses are also commonly referred to as "row houses" or "single-family attached dwellings".
- G. Two-Family Detached Dwelling. Two dwelling units accommodating one family each with both dwelling units within a single building on a single lot, and without the dwelling units being completely separated by a vertical wall. The building shall have two side yards.

Dwelling Unit. A single habitable living unit occupied by only one "family" (see definition of "family"). Each dwelling unit shall have: a) its own toilet, bath or shower, sink, sleeping and cooking facilities, and b) a separate access to the outside or to a common hallway or balcony that connects to outside access at ground level. No dwelling unit shall include a separate living area that is completely separated by interior walls so as to prevent interior access from the remainder of the living area.

Easement. A right-of-way granted for limited use of private land for a public, quasi-public, or private purpose and within which the owner of the property shall not have the right to make use of the land in a manner that violates the right of the grantee.

Engineer. A registered Professional Engineer licensed as such in the Commonwealth of Pennsylvania.

Family. One or more persons living in a single dwelling unit and functioning as a common household unit. A family shall not include more than four persons who are not "related" to each other (see definition of "related"), except a higher number may be specifically permitted within the provisions for group homes. A "treatment center" shall not be considered a "family" or a "group home".

Foot Path. A cleared way for pedestrian usage which may be constructed of gravel, wood chips or paved material depending on the volume of use.

Grade. The elevation of finished ground or paving.

Half (Partial) Street A street, generally parallel and adjacent to a property line, having a lesser right-of-way width than normally required for improvement and use of the street.

Impervious Surface: An area or material, such as a building, structure, or pavement, which prevents or reduces the absorption of stormwater, thereby impeding groundwater recharge and fostering surface-water runoff.

Infiltration Structures: A structure designed to direct runoff into the ground, e.g., French drains, seepage pits and seepage trench.

Land Development. Any of the following activities:

A. The improvement of one lot or two or more contiguous lots, tracts or parcels of land for any purpose involving:

1. A group of two or more residential or nonresidential buildings, whether proposed initially or cumulatively, or a single nonresidential building or structure on a lot or lots regardless of the number of occupants or tenure; or
2. The division or allocation of land or space, whether initially or cumulatively, between or among two or more existing or prospective occupants by means of, or for the purpose of streets, common areas, leaseholds, condominiums, building groups or other features.

B. A subdivision of land.

C. The following shall not be considered a land development:

1. The addition of an accessory residential building, including farm buildings, on a lot or lots subordinate to an existing principal building.

Landowner. The owner of a legal or equitable interest in land, including the holder of a written, signed and active option or contract to purchase; a person leasing the property (if authorized under the lease to exercise the right of the landowner and if such lease is for a remaining period of at least twelve (12) months); authorized officers of a partnership or corporation that is a "landowner"; or other person having a proprietary interest in land. A person who has clearly received formal notarized powers of attorney relating to a landowner may act in the capacity of the landowner, if legally authorized.

Landscaped Area. That portion of a lot in which plantings have been installed. The landscaped area includes the buffer planting strip, and plantings which serve a functional

and/or aesthetic purpose when located around and between: buildings, streets, parking areas, sidewalks, walkways, sitting areas, service or maintenance structures, courtyards, and the like.

Landscape Architect. A licensed landscape architect in the Commonwealth of Pennsylvania.

Landscaping Plan. A plan for the installation and maintenance of a landscaped area.

Land Use. The manner in which land is or may be used typically expressed in terms of the type of activity or development, such as: agricultural, residential, commercial, industrial, institutional, recreational, municipal and the like, whether such use is principal or accessory.

Lease. A contract granting use or occupation of property during a specified period in exchange for a specified rent.

Livestock, Intensive Raising of. "Raising of livestock" that involves the keeping of more than 100 animals that are routinely confined within a building, pens or cages or any dry lot feed farming operation or any keeping of garbage-fed livestock.

Livestock, Raising of. The raising and keeping of livestock, poultry or insects for any commercial purposes or the keeping of any animals for any reason beyond what is allowed under the "Dogs and Other Animals" or any other type section of the Branch Township Zoning Ordinance. This use shall not include a slaughterhouse nor a stockyard used for the housing of animals awaiting slaughter.

Lot. Any parcel or tract of land regardless of size, intended as a unit of ownership, transfer of ownership, use, lease, rent, improvement or development. Contiguous nonconforming lots under common ownership shall be considered one lot. Lot shall also mean parcel, plot, site, or any similar term.

- A. Lot, Corner. A lot abutting on two (2) or more of the streets intersecting having an interior angle of intersection not greater than one hundred thirty-five (135°) degrees.
- B. Lot, Interior. A lot other than a corner lot whose sides do not abut a street.
- C. Lot, Reverse Frontage. Lots which front on one public street but provide vehicular access solely from another public street at the rear of the lot.
- D. Lot, Through. An interior lot having frontage on two (2) streets.
- E. Lot, Flag or Lot, Keyhole. An irregularly shaped lot characterized by an elongated extension which does not meet minimum lot width requirements of the Zoning Ordinance from a road to the principal part of the lot.

Lot Area. The horizontal land area contained within the lot lines of a lot (measured in acres or square feet), but excluding the following:

- A. Areas within the existing legal rights-of-way of: 1) any proposed or existing public streets or alleys or 2) any proposed or existing commonly maintained private streets that serve three or more lots;
- B. Areas that exist as or will be required to be dedicated as common open space on a separate lot;
- C. Fifty percent of areas within rights-of-way or easements intended for overhead electrical lines of 35 kilovolts or higher which shall only be excluded for residential lots; and
- D. In flag lots, the area representing the "pole" position of the flag lot shall not be considered part of the lot area (see Figure 2-1).

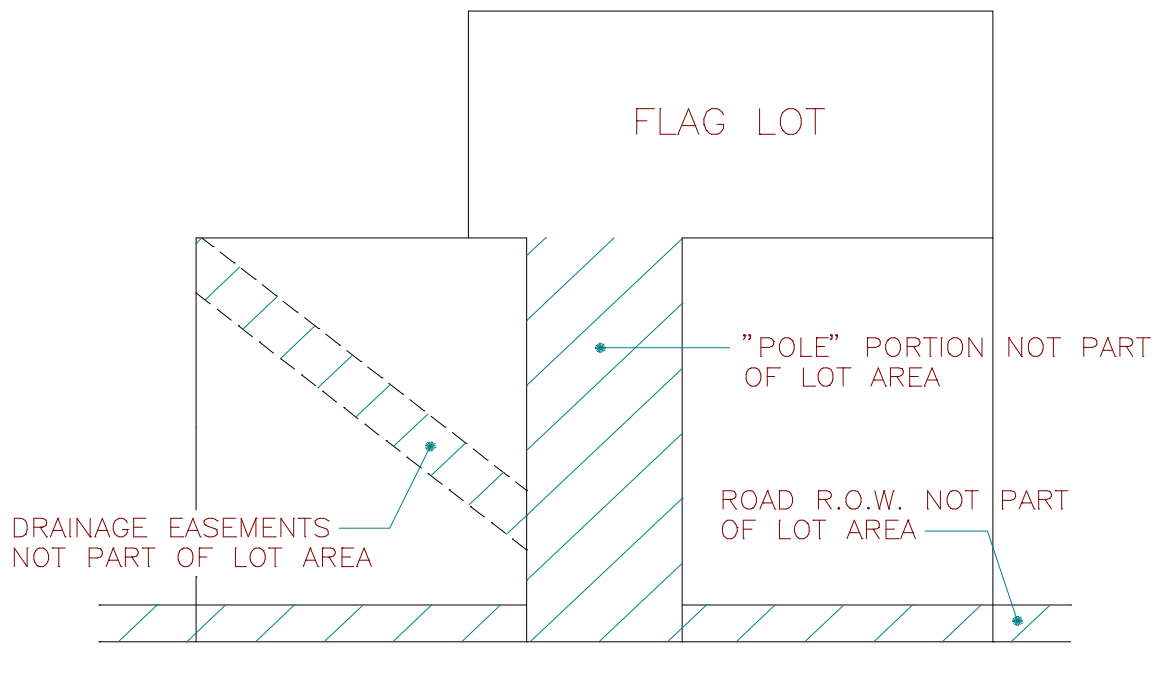


Figure 2-1

Lot Depth. The average horizontal distance between the front and the rear lot lines, measured through the approximate center of the lot.

Lot Lines. The property lines bounding the lot. Wherever a property line borders a public street, the lot line shall be considered to be the existing street right-of-way (see Figure 2-2).

- A. Front Lot Line (Street Line). A lot line separating the lot from the street right-of-way. The front lot line shall be the same as an existing or future right-of-way (whichever establishes the greater width).
- B. Rear Lot Line. A lot line opposite and most distant from the front lot line (a three (3) sided lot has no rear lot line).
- C. Side Lot Line. Any lot other than a front or rear lot line. A "side street lot line" is a side lot line separating a lot from a street.

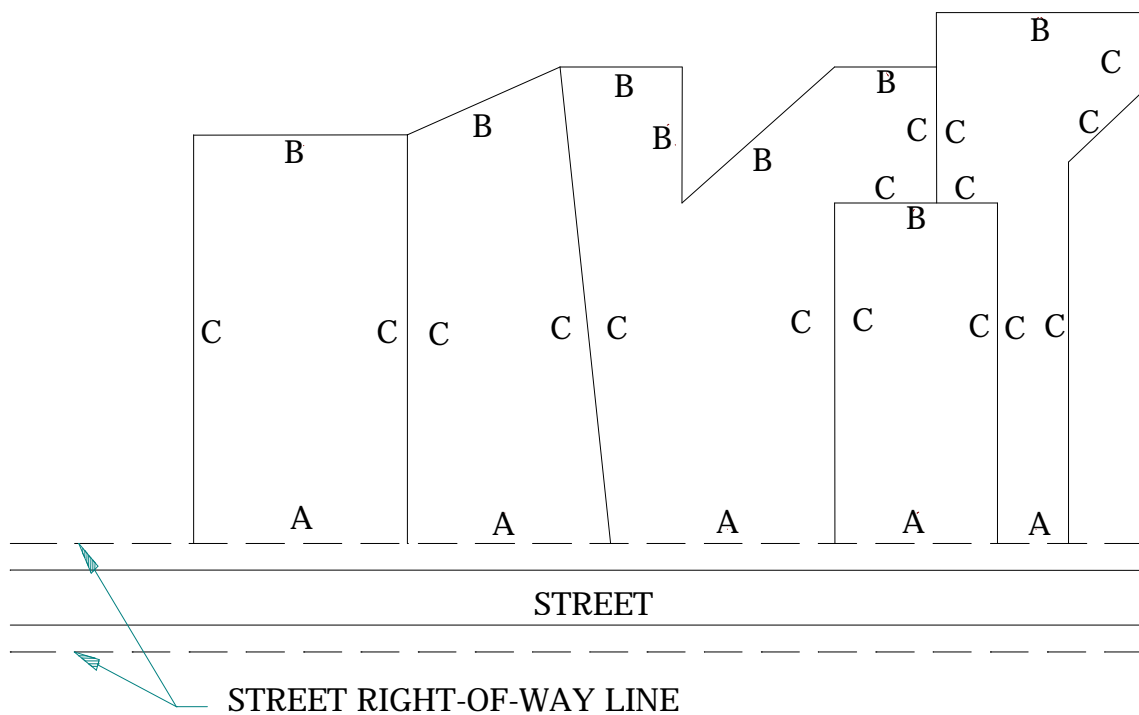


Figure 2-2

Lot Width. The horizontal distance between the side lot lines measured at the minimum prescribed front yard setback line, unless otherwise stated. In the event of a curved lot line, the lot width shall be measured using a straight line from end to end. The lot width shall be measured facing a street (see Figures 2-3 and 2-4).

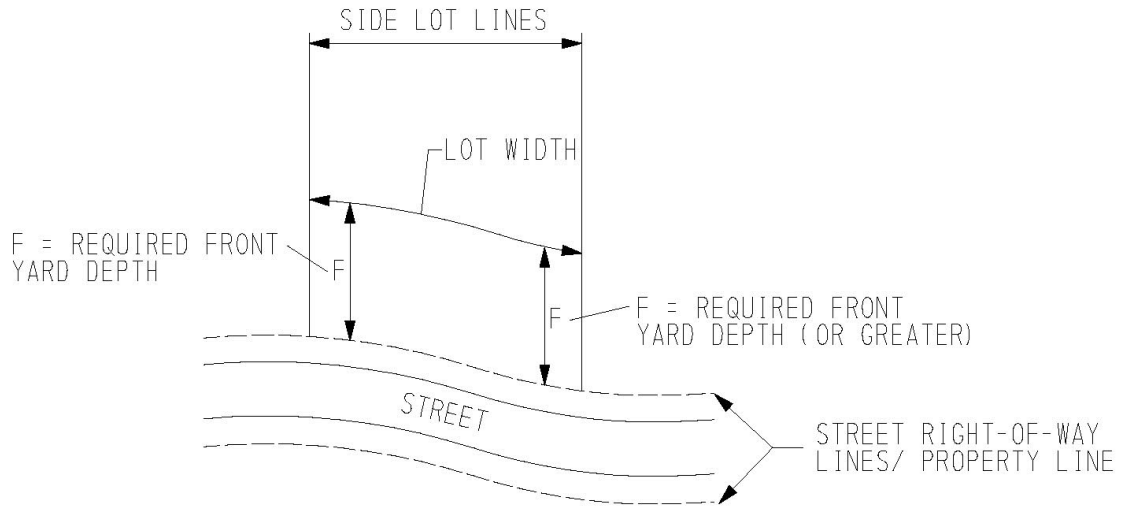


Figure 2-3

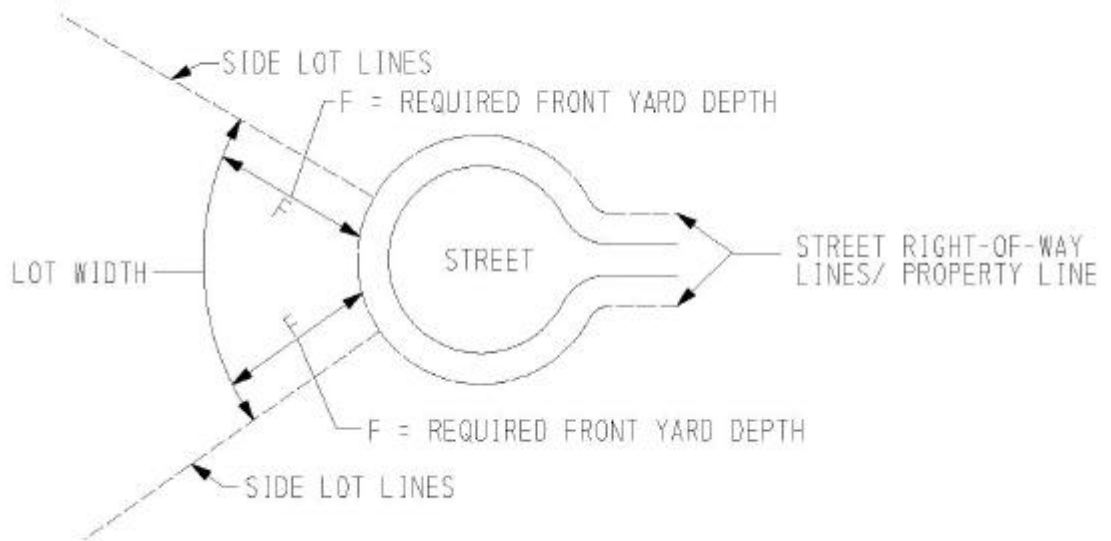


Figure 2-4

Maintenance Agreement. An agreement (in a form and manner acceptable to the Township) requiring the developer of improvements which have been dedicated to make any repairs or reconstructions and to maintain such improvements for a period not to exceed eighteen (18) months from the date of acceptance of dedication.

Maintenance Guarantee. Financial security (which is acceptable to the Township) to secure the promise made by a developer in the Maintenance Agreement that dedicated improvements shall be maintained by the developer (including acceptable letters of credit, performance bonds, escrow agreements, and other similar collateral or surety agreements.)

Mobile Home Space. A parcel of land in a mobile home park, improved with the necessary utility connection and other appurtenances necessary for the erection thereon of a single mobile home, which is leased or rented by the park owner to the occupants of the mobile home erected on the lot.

Mobile/Manufactured Home Park. A parcel of land under single ownership which has been planned and improved for the placement of three (3) or more mobile/manufactured homes for nontransient residential use. The individual manufactured homes may be individually owned.

A development of mobile/manufactured homes with each dwelling on its own subdivided and approved individual lot of record shall not be considered to be a "mobile home park" but rather regulated in the same manner as a subdivision of site-built homes

Multi family Residential. A structure intended for residential dwelling, including but not limited to row homes, duplexes, townhouses, apartment complexes, and condominiums.

Municipality. Shall be construed to mean the political subdivision known as Branch Township, Schuylkill County, Pennsylvania, unless otherwise noted.

Nonconforming Lot. A lot which does not conform with the minimum width, depth, or area dimensions specified for the district where such lot is situated, but was lawfully in existence at the time of enactment of the Zoning Ordinance or is legally established through the granting of a variance by the Zoning Hearing Board and which is not abutted by other undeveloped land owned by the same owner.

Open Space. The area of a lot unoccupied by principal or accessory structures, streets, driveways, parking areas; but may include areas occupied by walkways, patios and porches without roofs, playgrounds, and other areas occupied by outdoor recreation or play apparatus, gardens and trees.

Open Space, Common. A parcel or parcels of land, which meets all of the following standards:



- A. Is designed, intended and suitable for active or passive recreation by residents of a development or the general public.
- B. If not intended to be publicly owned, is covered by a system for perpetual maintenance.
- C. Will be deeded to the Township or deed restricted to permanently prevent uses of land other than "common open space" and non-commercial recreation.
- D. Does not use any of the following areas to meet minimum open space requirements:
  - 1) existing or future street rights-of-way
  - 2) accessways
  - 3) buildings (other than accessory buildings and pools clearly intended for noncommercial recreation)
  - 4) off-street parking (other than that clearly intended for noncommercial recreation)
  - 5) any area needed to meet a requirement for an individual lot
  - 6) any area deeded over to an individual property owner for their own use
  - 7) land with rights-of-way intended for overhead electrical transmission of 35 kilovolts or greater capacity.

Open Space, Usable. Open space of a lot or tract used for residential purposes, exclusive of required front and side yard areas, which is suitable for specified use(s) or as outdoor recreation for the residents (see Section 1123).

Ordinance. The Branch Township Subdivision & Land Development Ordinance and any provisions or amendments thereof, enacted by the Township Supervisors, unless otherwise noted.

Parcel. A tract, lot, or area of land.

Parking Facilities. Outdoor areas or specially designed buildings or garages used for the storage of vehicles.

Pathway. A pedestrian accessway which is not adjacent to a street, access drive or driveway and conforms with this Ordinance.

Pedestrian Interior Walk. A right-of-way for pedestrian use extending from a street into a block or across a block to another street.

PENNDOT. The Pennsylvania Department of Transportation, or its successor, and its subparts.

Performance Guarantee. Financial security (which is acceptable to the Township) to secure

the promise made by a developer in the Development Agreement that certain improvements shall be made by the developer (including acceptable letters of credit, performance bonds, escrow agreements, and other similar collateral or surety agreements).

Person. An individual, partnership, organization, association, trust, or corporation. When used in a penalty provision, "person" shall include the members of such partnership, the trustees of such trust, and the officers of such organization, association, or corporation.

Plan (or Plat). A map of a land development or subdivision of land.

- A. Plan, Sketch. An informal plan indicating salient existing features of a tract and its surroundings and the general layout of the proposed subdivision or land development lots and improvements.
- B. Plan, Preliminary. A tentative subdivision or land development plan, showing details on all proposed improvements and lot layout as a basis for consideration prior to preparation of a Final Plan.
- C. Final Plan. A complete and exact plan, identified as such with the title "Final Plan," prepared for official recording as required by this Ordinance to define property rights and proposed streets and other improvements.

Planning Commission, or Municipal Planning Commission. The Planning Commission of Branch Township, Schuylkill County, Pennsylvania, unless otherwise noted.

Private Street. A street that was intended for public use, but was not planned for dedication.

Public Notice. Notice published once each week for two successive weeks in a newspaper of general circulation in the Township. Such notice shall state the time and place of the hearing and the particular nature of the matter to be considered at the hearing. The first publication shall not be more than thirty (30) days and the second publication shall not be less than seven (7) days before the date of the hearings.

Related or Relative. Persons who are closely related by blood, marriage, adoption or formal foster relationship to result in one of the following relationships; brother, sister, parent, child, grandparent, great-grandparent, grandchild, great-grandchild, uncle, aunt, niece, nephew, sister-in-law, brother-in-law, or parent-in-law. For the purposes of child day care regulations, "relative" may also include a first cousin. This term shall not include relationships such as second cousins or cousins further removed.

Resubdivision. The further division of lots or the relocation of lot lines of any lot or lots within a subdivision previously made and approved or recorded, or the alteration of any streets or the establishment of any new streets within any such subdivision. Resubdivision does not include conveyances made so as to combine entire existing lots by deed or other

instrument.

Reserve Strip. A piece of property dedicated for the purpose of future road expansion, utility easements or points of access. A parcel of ground in separate ownership separating a street from other adjacent properties, or from another street.

Retention Basin. A reservoir, formed from soil or other material, which is designed to retain permanently a certain amount of stormwater from a catchment area and which also may be designed to detain, temporarily, additional stormwater runoff from the catchment area. Retention basins also may receive fresh water from year-round streams. Retention basins always contain water and thus shall be considered man-made lakes or ponds.

Right-of-Way. Land reserved for the public or others for use as a street or other purpose. Unless otherwise stated, "right-of-way" shall mean the existing street right-of-way line.

- A. Right-of-Way, Existing or Legal. The line separating a lot from the established official street right-of-way that either the Township or the Commonwealth will own after the completion of any proposed subdivision or land development under this Subdivision and Land Development Ordinance.
- B. Right-of-Way, Future or Ultimate. Land that is dedicated or is required to be defined or reserved for future use as a street and for related public improvements. The terms "ultimate right-of-way", "right-of-way reserved for future dedication" and "future right-of-way" shall have the same meaning. If a future right-of-way is not required to be defined, then future right-of-way shall have the same meaning as existing right-of-way.

Screen. A fence or natural obstruction of sufficient height (but not less than six (6) feet high) to effectively visually obscure the area being screened from adjoining areas.

Sediment. Deposited silt or other matter that is being or has been moved from its site of origin by water or other means of erosion.

Sediment Basin. A structure designed and built to retain sediment during construction.

Set-Back or Building Line.

- A. The line within a lot defining the required minimum distance between any structure to be erected or use to be developed and the adjacent future street right-of-way or exterior lot line (when the property is not abutted by a right-of-way). Such line shall be typically measured at right angles from and parallel to the front lot line.
- B. Any building setbacks shall be measured from the foundation, exterior wall or other component of a structure that is closest to the right-of-way line or lot line from which the setback is being measured.

- C. Unless otherwise stated, setback distances are for both accessory and principal structures.
- D. Private Streets – For a building setback measured from a private street, the setback shall be measured from the existing right-of-way of such a street, if a right-of-way exists. If a private street does not have a right-of-way, the setback shall be measured from the edge of the cartway.

Sewage Disposal System. A system designed to collect, treat, and dispose of sewage from uses in compliance with regulations of the appropriate Local, State, and Federal agencies.

- A. Centralized Sewage Disposal System. A Sewage Disposal System serving a minimum of twenty (20) dwelling units or five (5) principal non-residential uses.
- B. On-Lot or Non-Public Sewer System. Any form of Sewage System permitted under Local, State, and Federal law that does not meet the definition of "centralized sewage disposal".
- C. Public Sewage Disposal System. A Centralized Sewage Disposal System owned and operated by a public authority.

Sewer Connection. The connection consisting of all pipes, fittings, and appurtenances from the drain outlet of a dwelling or building to the inlet of the street or main collector sewer pipe of the sewerage system serving the subdivision or land development.

Sidewalk. A pedestrian accessway which is adjacent to a street, access drive, or driveway and conforms to the regulations of this Ordinance.

Sign. Any physical device for visual communication that is used for the purpose of attracting attention from the public and that is visible from beyond an exterior lot line, including all symbols, words, models, displays, banners, flags, devices or representations. This shall not include displays that only involve symbols that are clearly and entirely religious or decorative in nature, and which do not include advertising.

Sight Distance. The maximum extent of unobstructed vision (in a horizontal or vertical plane) along a street from a vehicle located at any given point on the street.

Silt. Finely divided particles of soil or rock, often carried in cloudy suspension in water and eventually deposited as sediment.

Site Alteration. Includes regrading the existing topography, filling lakes, ponds, marshes or floodplains, clearing vegetation or altering watercourses.

Slope. The vertical change of an area of land divided by the horizontal change measured in percent.

Soil Conservation District. The Soil and Water Conservation District for Schuylkill County, unless otherwise noted.

Soil Erosion. The detachment and movement of soil or rock fragments, or the wearing away of the land surface by water, wind and ice.

Soil Erosion and Sedimentation Control Plan. A plan and related narrative as required by this Ordinance.

Soil Percolation Test. A field test in accordance with criteria of the Pennsylvania Department of Environmental Protection conducted to determine the suitability of the soil for on-site sewage disposal facilities and infiltration structures by measuring the absorptive capacity of the soil at a given location and depth.

Soil Survey. A scientific survey of soil conditions and characteristics prepared by an engineer or soil scientist and approved or certified by the United States Soil Conservation Service.

Solar Access. The capability of receiving direct sunlight between 9:00 a.m. and 3:00 p.m. (Solar Time) on any area of a lot not within required yard areas.

Solicitor. Unless otherwise stated, shall mean the appointed Solicitor to the Branch Township Planning Commission.

Solid Waste. Garbage, refuse or other discarded materials including, but not limited to, non-liquid waste materials resulting from industrial, commercial, institutional, agricultural and residential activities.

Stage. A section or sections of which an applicant proposes to commence development at the same time, as part of a timetable for development of a planned residential development over a period of years.

State. The Commonwealth of Pennsylvania and its agencies.

State Planning Code. The Pennsylvania Municipalities Planning Code, Act 247 of 1968, as amended by Act 170 of 1988 and as may be further amended.

Storm Sewer. A sewer that carries storm surface and groundwater drainage but excludes sewage and residential, commercial and industrial wastes.

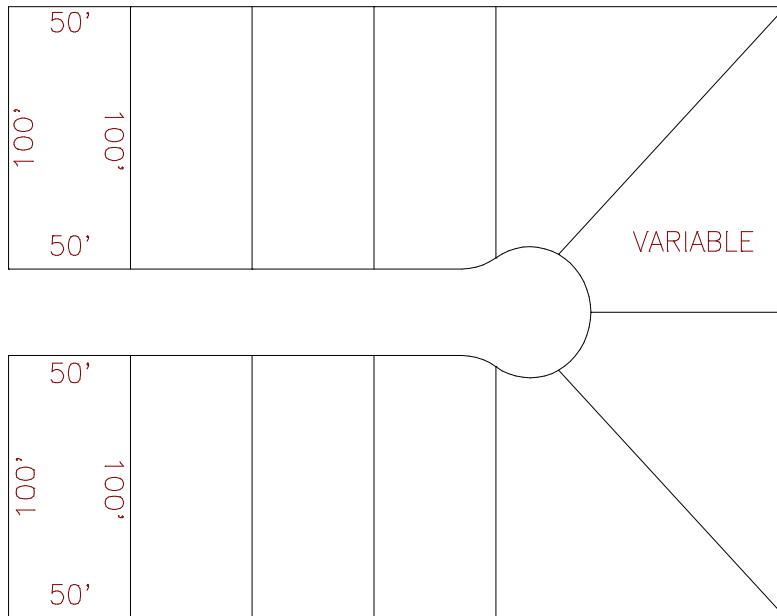
Stormwater. That water which accumulates from precipitation and is manifested in surface runoff.

Stormwater Detention. Any storm drainage technique that retards or detains runoff, in rate, volume, or otherwise, such as a detention or retention basin, parking lot storage, rooftop storage, porous pavement, dry wells or any combination thereof.

Stormwater Management Plan. A plan for controlling surface water runoff so that it will preclude erosion or flooding and/or the adverse effects of impervious areas on surface water runoff as required by the Township ordinances, codes, regulations, plans and maps.

Street. Any public or private thoroughfare intended to be used by vehicular or pedestrian traffic including street, avenue, court, expressway, arterial, road, highway, freeway, boulevard, parkway, lane, alley and viaduct.

- A. Arterial or Major Traffic Street. Streets designed primarily to carry medium to heavy volumes of traffic at moderate traffic speeds, and generally should not provide access to land which would interfere with their primary traffic functions. Arterial Streets are those streets which are so designated on the Official Street Classification Map and facilities classified as main and secondary highways by the Pennsylvania Department of Transportation.
- B. Collector Street. Streets designed to carry a moderate volume of traffic between Local Streets and Arterials at moderate traffic speeds, and provide only limited vehicular access to the abutting properties.
- C. Local or Minor Street. Streets designed to provide direct access from abutting properties to Collector and Arterial Streets.
  - 1. Cul-de-Sac Street. A cul-de-sac street is a local street which is permanently terminated at one end by a vehicular turnaround and intersects another street at the other end (see Figure 2-5).



CUL-DE-SAC STREET  
Figure 2-5

2. Marginal Access Street. A marginal access street is a local street which is parallel and adjacent to collector or arterial streets and provides access to abutting properties.

Structure. Any man-made object having an ascertainable, stationary location on or in land or water, whether or not affixed to the land. The term structure shall include: buildings, signs, stadiums, platforms, communication towers, walkways, porches or decks covered by a permanent roof, swimming pools (whether above or below ground); storage sheds, carports, garages, and similar structures. "Structure" shall be interpreted as including the words "or part thereof".

Subdivider. See "Developer".

Subdivision. The division or redivision of a lot, tract, parcel, or area of land by any means into two (2) or more lots, tracts, parcels, or other divisions of land including changes in existing lot lines for the purpose, whether immediate or future, of rental or lease, partition by the court for distribution to heirs or devisees, transfer of ownership or building or lot development. The subdivision by lease of land for agricultural purposes into parcels of more than ten (10) acres, not involving any new street or easement of access or any residential dwellings shall be exempt. Existing leases shall also be exempt when existing lot lines will not be changed.

Subdivision, Major. Any subdivision which does not qualify as a minor subdivision.

Subdivision, Minor.

A. A Minor Subdivision is:

1. Any subdivision:
  - a) into not more than five (5) lots, including the residual tract or lot,
  - b) which involves no major trunk line extension of public facilities, no new street, nor an extension or improvement of an existing street,
  - c) which is not located in a commercial or industrial zoning district, and
  - d) which provides for and does not adversely affect the potential development of the remainder of the tract, or
2. Any subdivision:
  - a) for the purpose of joining or annexing a lot to an existing lot, parcel, or tract of land, and
  - b) provides a covenant in the deed of the lot to be conveyed which joins it with and makes it an inseparable part of the parcel to which it is joined.



- B. The subdivision of any lot or parcel of land which has previously received subdivision approval for at least five (5) lots shall comply with requirements of a major subdivision.

Subdivision, Natural. Any tract or parcel of land divided into two (2) or more separate areas by one or more public streets.

Surveyor. A person duly registered by the Commonwealth of Pennsylvania to practice surveying.

Tract. In certain zoning districts, the tract is the minimum amount of adjacent land area (which may be separated by alleys, streets, or waterways) within the Township that is required to be approved as part of an overall preliminary subdivision or land development plan in order to allow either certain types of uses or to allow the creation of lots smaller than a certain specified lot area. An area of land shall meet the following requirements in order to be considered a "tract":

- A. Shall only include lands within a submitted preliminary plan that includes a well-defined internal circulation system, maximum coordination between lots and carefully limited points of vehicular access onto streets exterior to the tract; and
- B. Shall only include lands that at the time of the approval of the preliminary plan have one "landowner" (as defined by Article II), unless the applicant proves to the satisfaction of the Township that there is a legally binding commitment between two or more "landowners" to coordinate the access and development of the tract as shown in the approved preliminary plan.

Use. Any purpose, activity, occupation, business, or operation for which land or a structure is designed arranged, intended, occupied or maintained.

Waiver. A modification or deletion of a requirement of this Ordinance recommended by the Planning Commission granted by the Township Supervisors relative to a specific subdivision or land development. (See section 108 & 306)

Water Connection. The connection consisting of all pipes, fittings and appurtenances from the water pipe to the inlet pipe of the distribution system within the dwelling or non residential unit.

Watercourse. A discernable, definable natural course or channel along which water is conveyed ultimately to streams and/or rivers at lower elevations. A watercourse may originate from a lake or underground spring(s) and be permanent in nature or it may originate from a temporary source such as runoff from rain or melting snow. The term watercourse shall include but is not limited to a channel, creek, ditch, drain, dry run, spring, stream or river.

Water Supply System. A system designed to transmit water from a source to users in compliance with the requirements of the appropriate state agencies and the Township.

- A. Centralized Water Supply System. A Water Supply System which transmits water from a common source to more than thirty (30) dwellings principal use.
- B. On-Lot or Non-Public Water Supply System. A Water Supply System which transmits water from a source on the lot to one (1) dwelling, principal use, or lot.
- C. Public Water Supply System. A Centralized Water Supply System owned and operated by a public authority.

Wetlands. An area of land or water meeting one or more definitions of a "wetland" under Federal or Pennsylvania law or regulations.

(NOTE. – As of 2004, the following was the official United States Army Corps of Engineers' definition of wetlands: "Those areas that are inundated or saturated by surface or groundwater at a frequency and duration sufficient to support, and that under normal circumstances do support, a prevalence of vegetation typically adapted for life in saturated soil conditions. Wetlands generally include swamps, marshes, bogs and similar areas." Wetlands are technically defined on the basis of types of vegetation and soils and the level of the water table below the surface. As of 2004, the United States Army Corps of Engineers and DEP enforce the wetlands regulations.)

Yard. An area not covered by buildings on the same lot with a structure (or a group of structures) which lies between the structure (or group of structures) and a lot line and which is unoccupied and unobstructed from the ground upward except as permitted in the Township Zoning Ordinance.

- A. Front Yard. A yard extending the full width of the lot between a structure and the front lot line or side street lot line measured from the front lot line (which is the future or existing street right-of-way and where it abuts a street).
- B. Rear Yard. A yard extending the full width of the lot measured from the rear lot line and that stretches between the side lot lines parallel to the rear lot line.
- C. Side Yard. A yard measured from the side lot line, and extending from the front lot line to the rear lot line.

Zoning Ordinance. The Branch Township Zoning Ordinance, as amended, unless otherwise noted.

**ARTICLE 3 - GENERAL PROCEDURES**

301. PURPOSE

This Article provides an overview of the general procedure for the Township review of proposed subdivisions and land developments (Section 302) and of the general procedures for submitting plans to the Township (Section 303). This Article is intended to be instructional and exemplary only and does not set forth mandatory requirements which are binding on the Township or an Applicant. An outline is included at the end of this Article to show the general subdivision process for Minor and Major Subdivisions.

302. GENERAL PROCEDURE FOR SUBDIVISIONS AND LAND DEVELOPMENTS

A. Review and Approval Stages

1. Three (3) types of plan submissions are included in the procedure for filing and approving subdivision and land development plans: Sketch, Preliminary, and Final.
2. These submissions enable the Planning Commission and Township Supervisors to have an adequate opportunity to review the submission to ensure that their formal recommendations are reflected in the Final Plan and that it is prepared in accordance with this Article prior to recording.
3. The table below outlines the stages for the different types of proposed subdivision or land development.

STAGE	SUBDIVISION ORDINANCE ARTICLE	TYPE OF PROPOSED SUBDIVISION OR LAND DEVELOPMENT*		
		LAND DEVELOPMENT	MAJOR SUBDIVISION	MINOR SUBDIVISION
Sketch Plan	6	RECOMMENDED	RECOMMENDED	RECOMMENDED
Preliminary Plan	7	REQUIRED	REQUIRED	NOT REQUIRED
Final Plan	8	REQUIRED	REQUIRED	REQUIRED**
Guarantee of Improvements Installation	9	REQUIRED	REQUIRED	REQUIRED
Recording of Final Plan	10	REQUIRED	REQUIRED	REQUIRED

\* See Article 2 for precise definitions.

\*\* See Article 5 for Minor Subdivision Final Plan filing and review requirements (Article 4 for boundary line adjustments and Article 5 provides a simplified procedure for reviewing minor subdivisions).

Table 3-1

B. Sketch Plan

1. While Sketch Plans are not required for major and minor subdivisions or land developments, it is recommended that they be filed to allow the Applicant to consult early and informally with the Planning Commission before preparing a Preliminary Plan in order to resolve potential differences and avoid unnecessary expense and delay.
2. The Sketch Plan will also be used to classify the subdivision as a major subdivision, minor subdivision, or land development.
3. Comments made by the Planning Commission on the Sketch Plan are only recommendations and are not binding.

C. Preliminary Plan

1. Except for any Sketch Plan which is filed, the initial plan filed with the Township for formal review of a major subdivision or land development shall be considered the official Preliminary Plan.
2. A Preliminary Plan Submission is not required for Minor subdivisions.
3. The purpose of the Preliminary Plan is to achieve formal approval by the Planning Commission of the overall development scheme proposed in order to minimize the need for any revisions of Final Plans.

D. Final Plan

1. After approval of the Preliminary Plan of a major subdivision or land development, the Applicant submits a Final Plan.
2. The purpose of the Final Plan is to receive formal approval by the Planning Commission and Township Supervisors before plans for all subdivisions and land developments are recorded.

- E. Guarantee of Improvements Installation. Where improvements are required by this Ordinance, the Township and Applicant shall enter into a development agreement, and the Applicant shall post financial security acceptable to the Township in an amount sufficient to cover the costs of any improvements which may be required.

F. Recording of Final Plan

1. Deadline. The applicant shall record the Final Plan approved by Township Supervisors in the Office of the Recorder of Deeds of the County within ninety (90) days of such final approval, unless an extension has been granted in writing by Township Supervisors.
2. Failure to Record. If the plan is not recorded within the required time period, the approval shall lapse and become void.
3. Township Copies. Three (3) copies of the recorded plan with supporting data shall be submitted to the Township Secretary.
4. Plans Considered at Regular Meetings. Plans will be reviewed at regularly scheduled meetings of the Commission, provided that such plans are submitted at least ten (10) business days prior to the meeting at which review is desired.
5. Commission May Take Final Action. The initial plan filed with the Commission may proceed to final action at the first consideration of a plan for a small subdivision involving no new streets, provided that the plan and supporting data comply in all respects with the requirements for final plans.

303. GENERAL PLAN SUBMISSION PROCEDURES

A. Submission

1. Applicants with minor subdivision Final Plans shall submit the required number of plans to the Township by certified mail or by delivery in person. Said plans shall be filed at least ten (10) business days prior to the regularly scheduled Planning Commission Meeting at which the plan will be reviewed.
2. Applicants with Preliminary and Final Plans for major subdivisions shall submit the required number of plans and supporting data to the Township by certified mail or by delivery in person. Said preliminary and final plans shall be submitted at least ten (10) business days prior to the regularly scheduled Planning Commission Meeting at which the plan will be reviewed.
3. Plans to be Filed with County. Sketch Plans for Record and Final Plans shall also be concurrently submitted to the appropriate officials of the County. The Township Planning Commission shall forward the necessary plans and fees to County Planning Commission as required by the Schuylkill County Planning and Zoning Department.

B. Receipt by Commission

1. The Commission shall review the submission at the next regularly scheduled meeting.
2. If the submission is incomplete, the Commission may disapprove the subdivision.

C. Attendance

1. The Applicant or his duly authorized representative should endeavor to attend the Commission meeting to discuss the submitted plans.
2. The Commission may request such attendance, and failure to appear when so requested may result in plan disapproval.

D. Action by the Commission and the Township Supervisors. Within ninety (90) days following the date of the regular meeting of the Commission, next following the date the application is filed, the Commission shall recommend to the Township Supervisors and the Township Supervisors shall act to approve or disapprove the plan.

E. Public Hearing. The Township Supervisors may hold a public hearing prior to rendering their decision on any Final Plan.

F. Notification of Applicant. The Township Supervisors shall communicate their decision in writing to the Applicant either personally or by certified or registered mail to his last known address, not later than fifteen (15) days following the day such decision has been made.

304. PROCEDURES FOR PRELIMINARY PLANS

A. Changes and Modifications. The Commission and Township Supervisors may require or recommend changes and modifications of the preliminary plan before approval of the final plan is granted.

B. Approval of Preliminary Plans. Approval, or recommended approval of the preliminary plan, subject to conditions, revisions and modifications as stipulated or suggested by the Commission and Township Supervisors, shall constitute conditional Commission and Township Supervisors approval of the subdivision as to the character and intensity of the development, and the general layout and approximate dimensions of streets, lots, and other proposed features.

305. PROCEDURES FOR FINAL PLANS

- A. Final Plan to be Submitted. Within one (1) year after The Township Supervisors and Planning Commission action on the preliminary plan, a final plan with supporting data shall be submitted to the Township for approval or review; provided, that an extension of time may be granted by the Township Supervisors upon written request. Otherwise, the plan submitted shall be considered as a new preliminary plan.
- B. Plan May be Submitted in Sections. The Township Supervisors may permit submission of the final plan in sections each covering a portion of the entire proposed subdivision as shown and approved on the preliminary plan.
- C. Final Plan Shall Conform with Preliminary Plan. The final plan shall conform in all important respects with the preliminary plan as previously reviewed by the Township and shall incorporate revisions and modifications specified or suggested by the Township in its conditional approval of the preliminary plan. Otherwise, the plan submitted shall be considered as a revised preliminary plan.
- D. Reasons for Disapproval to be Stated. Whenever a plan is disapproved, the Planning Commission and/or Township Supervisors shall explicitly state its reasons for such action or recommendation.
- E. Time Limit on Recording. Within ninety (90) days after final action by the Township Supervisors, the final plan or section thereof shall be filed for recording with the County Recorder of Deeds, and shall be a clear and legible white print on linen or microfilm. If the plan is not recorded within such period, the action of the Township Supervisors shall become null and void, unless an extension of time is granted by the Township Supervisors upon written request.

306. Consideration of Waiver of Provisions of This Ordinance

All requests for waivers shall be made in accordance with the following procedure:

- A. All requests for waivers shall be made in writing and shall accompany and be a part of the application for plan review. The request shall state in full the grounds and facts of unreasonableness or hardship on which the request is based, or the alternative standard proposed to provide equal or better results, the section or sections of this Ordinance which are requested to be waived, and the minimum modification necessary.
- B. All waiver request, including section number and brief description of the requested waiver, must be labeled on the plan.

- C. Should a revision to a submitted plan require a waiver which was not apparent at the time of initial plan submission, the request for a waiver shall be submitted in accordance with subsection (A) & (B) above, at the time of submission of the revised plan.
- D. Requests for waivers shall be considered by the Planning Commission at the public meeting which is at least twenty-one (21) days after the submission of the waiver request.
- E. At the scheduled public meeting the Planning Commission shall review the request to determine if the literal compliance with any mandatory provision of the Ordinance is demonstrated by the applicant to exact undue hardship or to be unreasonable, or that an alternative standard has been demonstrated to provide equal or better results, provided that such modification will not be contrary to the public interest and that the purpose and intent of this Ordinance is observed. The applicant shall demonstrate that the alternative proposal represents the minimum modification necessary. If the Planning Commission determines that the applicant has met his burden, it may recommend to the Board of Supervisors a waiver from the literal compliance with the terms of this Ordinance.
- F. The Board of Supervisors shall review all recommendations from the Planning Commission regarding the request. The Board of Supervisors by motion shall act on all waiver requests at the regularly scheduled monthly meeting following the review by the Planning Commission.
- G. If the Board of Supervisors denies the request, the Board of Supervisors will notify the applicant, Planning Commission, Engineer and Solicitor, in writing, of the justification for denial. If the Board of Supervisors recommends granting the request, the Final Plan shall include a list of all waivers granted by the Board of Supervisors and the dates of their approval by the Board of Supervisors.



## ARTICLE 4 - BOUNDARY LINE ADJUSTMENTS

### 401. PURPOSE

Where no new, additional, or substandard lot will be created and the resultant action will not adversely affect the future development of property. In this situation the Final Plan submission shall comply with the drafting standards and required information of Sections 401A-D. See Section 401E for examples of boundary line adjustments. The submission and review procedure for boundary line adjustments shall be the same as minor subdivisions except use the Boundary Line Adjustment checklist. See Section 502 for clarification.

#### A. Drafting Standards

1. Plans shall be prepared on a standard sheet no larger than 24" x 36".
2. All information shall be legibly and accurately presented.
3. Plans shall be drawn at a scale of one inch (1") equals fifty feet (50') or one inch (1") equals one hundred feet (100'). The Planning Commission may approve other acceptable scales.
4. All dimensions shall be set in feet and decimal parts thereof, and bearings in degrees, minutes, and seconds.
5. Each sheet shall be numbered and shall show its relationship to the total number of sheets.
6. Plans shall be prepared and shall bear an adequate legend to indicate clearly which features or locations are existing and which are proposed.
7. When the plan is a revision of a previously approved plan, note the revisions.

#### B. General Information

1. Name of subdivision.
2. Name and addresses of:
  - a. Landowner
  - b. Developer

3. Certificate of Ownership (see Appendix F & G):
  - a. The owner shall acknowledge said statement before an officer authorized to take acknowledgements.
  - b. The seal of a notary public or other qualified officer shall be impressed to the plan acknowledging owner's statement of intent.
4. Names, addresses, signatures, license numbers and seals of the Professional Engineer, Landscape Architect, or Surveyor responsible for the preparation of the plan shall be indicated in the Certification of Accuracy (see Appendix D).
5. Approval/review signature blocks for:
  - a. Township Planning Commission
  - b. Township Supervisors
  - c. County Planning Commission
  - d. Recorder of Deeds
6. Location map at a suitable scale showing the relation of the site to adjoining properties and streets.
7. North arrow.
8. Graphic scale and written scale.
9. Date of plan and all subsequent revision dates.
10. Boundaries of all adjoining properties with names of landowners and Deed Book volume and page number.
11. The Deed Book volume and page number, as entered by the County Recorder, referencing the latest source of title to the land being subdivided.
12. Tax map sheet, block, and lot number for the tract being subdivided.
13. Lot size(s) in acres and square feet and the residual lot site.
14. Indicate all monuments as set or found.
15. Zoning Requirements (From Branch Township Zoning Ordinance)
  - a. Applicable district.
  - b. Lot size and yard requirements.

c. Building setback line.

- C. Upon approval of the boundary line adjustment, the applicant will have the deed(s) rewritten so that the description of the metes and bounds for the property will include the new area(s) and submit a copy to the Township.
- D. Additional Information. The Township may require the submission of additional information.
- E. Examples of Typical Boundary Line Adjustments:

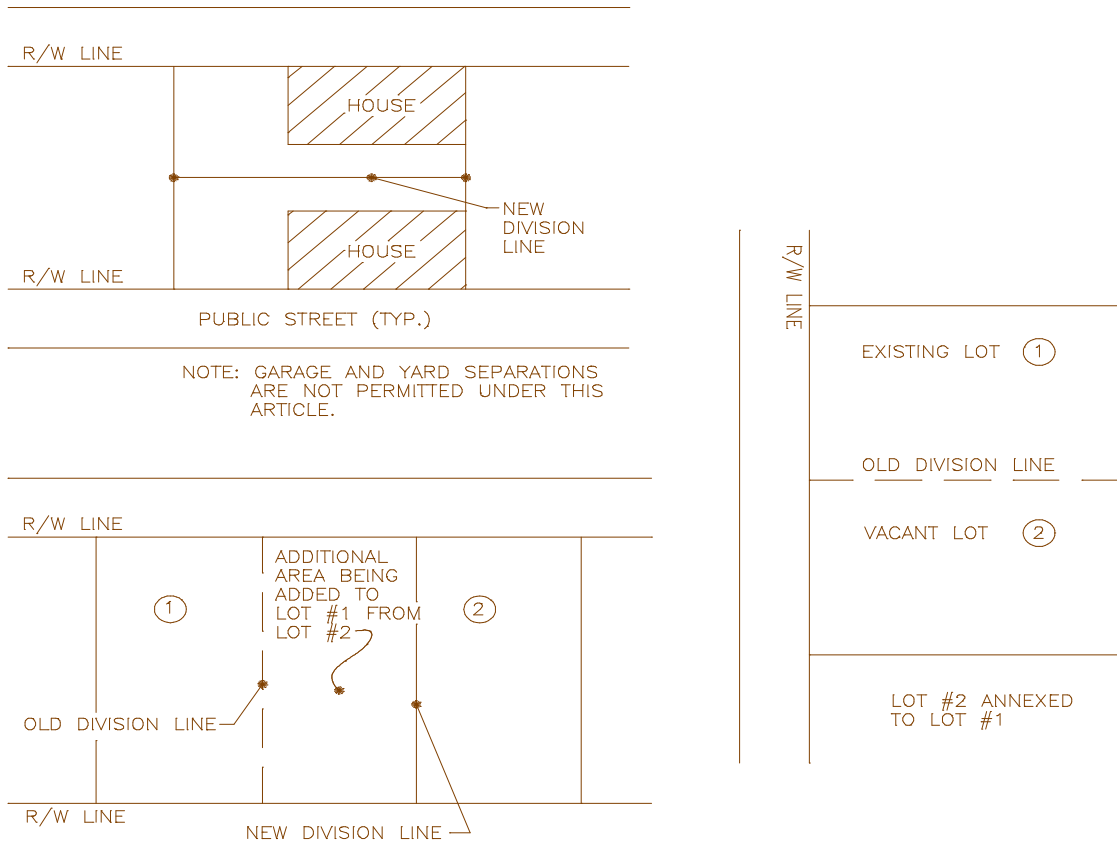


Figure 4-1

## ARTICLE 5 - MINOR SUBDIVISIONS

### 501. PURPOSE

The purpose of Minor Subdivision requirements are to permit applicants and the Township to use a simplified procedure for reviewing minor subdivisions prior to approval for recording.

### 502. SUBMISSION AND REVIEW PROCEDURE

A. Final Plan Submission Required. A Final Plan Submission for each Minor Subdivision must be filed by the Applicant and reviewed in accordance with the provisions of Article 5.

B. Required Submission

1. The Applicant shall file the Plan at least ten (10) business days prior to a regularly scheduled Planning Commission meeting and shall include the following:
  - a. Filing Fee, as set by resolution of Township Supervisors (See Fee Schedule available at Township Building), and the filing fee set forth by the Schuylkill County Planning Commission for review of the plan.
  - b. Two (2) copies each of the
    - (i) Application Form (included in Appendix B).
    - (ii) Final Plan Checklist for Minor Subdivision (included in Appendix C-2).
  - c. \* Minimum of ten (10) copies of the Final Plan
  - d. \* Minimum of four (4) sets of Supportive Documents.

\*Note: The Township may require additional copies of the final plan and/or the Supportive Documents.

2. If a State road is involved, no subdivision or land development which will require access to a highway under the jurisdiction of the Pennsylvania Department of Transportation shall be finally approved unless the submission contains a receipt that a highway occupancy permit has been approved pursuant to Section 420 of the Act of June 1, 1945, known as the State

Highway Law before driveway access to a State highway is permitted. Permission to connect to a municipal road shall be requested from the municipality.

3. Each Final Plan filed for minor subdivisions shall provide the information required by Section 504.
4. All sheets shall be folded to 9" x 12" size in such a manner that the title of the sheet faces out.
5. Sewer Planning Module.

C. Review by Various Agencies

1. The final plan is reviewed by the Township Engineer, Township Code Enforcement Officer, County Planning Commission, and, if deemed necessary, other officials. These reviewers will report their findings to the Township Planning Commission and Township Supervisors.
2. All plan reviews of the Final Plan Submission shall be based on the objectives and requirements of this Ordinance, as well as, other applicable ordinances and statutes.
3. The Reviewing Agencies may make additional reports and recommendations to the Planning Commission and Township Supervisors during review of the Plan.
4. Applicant should solicit reviews and reports from adjacent municipalities and other government agencies affected by the plan.

D. Review by Township Planning Commission. Within ninety (90) days following the date of the regular Township Planning Commission meeting which the plan was submitted for review (unless the Applicant grants a written extension of time for the entire Township review of such Submission), the Township Planning Commission shall:

1. Review all applicable reports received from the appropriate review agencies and officers.
2. Determine whether the Final Plan Submission meets the objectives and requirements of this Ordinance, as well as, other applicable ordinances, and statutes.
3. Review the Final Plan Submission with the Applicant, his agent, or

representative and recommend any needed revisions so that the Submission will conform to this Ordinance, other ordinances, and statutes.

4. Recommend approval, conditional approval, or disapproval of the Final Plan Submission in a written report to The Township Supervisors, specifying and recommending conditions for approval, identifying any defects found by the application, describing any requirements which have not been met, citing the provisions of any ordinance or statute relied upon.

E. Review by the Township Supervisors. The Township Supervisors shall:

1. Review the report of the Commission.
2. Review the report of all other reviewing agencies received within forty-five (45) days from the date the Submission was forwarded to such agencies (the Township Supervisors may review the reports of such agencies received after the forty-five (45) day period).
3. Determine whether the Final Plan Submission meets the objectives and requirements of this Ordinance, as well as, other applicable ordinances, and statutes.
4. Approve or reject the Final Plan Submission within the time required by the Pennsylvania Municipalities Planning Code Act 247 (Currently the Act requires the Township Supervisors to act not later than ninety (90) days following the date of the first regular meeting of the Township Planning Commission held after it has accepted the submission as being filed for review; but in no case shall the Township Supervisors's decision be made later than one hundred twenty (120) days following the date the Submission was accepted as being filed for review, unless the Applicant grants a written extension of time).

F. Decision by Township Supervisors

1. The decision of the Township Supervisors shall be in writing and shall be communicated to the Applicant personally or by mail to his last known address, not later than fifteen (15) days following the decision.
2. Offers of Dedication
  - a. The approval of the Final Plan shall not constitute an acceptance of the dedication of any street or other proposed public way, space, or area shown on the Final Plan.

- b. Any such acceptance of dedication shall be specifically stated along with the signatures required for approval.
  - c. If the Township Supervisors elects to accept lands offered for dedication, the Submission shall be accompanied by duly executed instruments of conveyance to the County or Township. Such instruments shall state that the title thereof is free and unencumbered.
3. When the Final Plan Submission is disapproved, the decision shall specify the defects found in the Submission, shall describe the requirements which have not been met, and shall cite the provisions of the statute or ordinance relied upon in each case.
  4. Failure of the Township Supervisors to render a decision and communicate it to the Applicant within the time and in the manner required by the Pennsylvania Municipalities Planning Code Act 247, shall be deemed an approval of the Plan as presented, unless the Applicant has agreed in writing to an extension of time or change in the prescribed manner of communication of the decision.
  5. At the request of the Applicant, the Township shall furnish the Applicant with a signed copy of a resolution indicating approval of the Applicant's Final Plan contingent upon the Applicant obtaining a satisfactory financial security. The Final Plan will not be signed by Township officials until a satisfactory financial security is presented. The resolution of contingent approval shall expire and be deemed to be revoked if the financial security agreement is not executed within ninety (90) days, unless a written extension is granted by the Township.
  6. For all land developments where the lots are to be served by other than individual wells, the Applicant shall present evidence to the Township that the subdivision or land development is to be supplied by a certified public utility, a bona fide cooperative association of lot owners or by a municipal corporation, authority or utility. A copy of a Certificate of Public Convenience from the Pennsylvania Public Utility Commission or an application for such certificate, a cooperative agreement or a commitment or agreement to serve the area in question, whichever is appropriate, shall be acceptable evidence.

#### 503. RECORDING PLANS SUBMITTED UNDER ARTICLE 5

If the Plan submitted under the provisions of Article 5 can be clearly drawn on a sheet no larger than 24" x 36", the Plan may be recorded as an attachment to the deed. (NOTE: See

Article 10 for other provisions regarding the recording of Final Plans.)

504. MINOR SUBDIVISION FINAL PLAN REQUIREMENTS

A. Drafting Standards

1. Plans shall be prepared on a standard sheet no larger than 24" x 36" except when the Planning Commission approves of other size plans.
2. All information shall be legibly and accurately presented.
3. Plans shall be drawn at a scale of one inch (1") equals fifty feet (50') or one inch (1") equals one hundred feet (100'). Under special circumstances the Planning Commission may approve other acceptable scales.
4. All dimensions shall be set in feet and decimal parts thereof, and bearings in degrees, minutes, and seconds.
5. Each sheet shall be numbered and shall show its relationship to the total number of sheets.
6. Plans shall be prepared and shall bear an adequate legend to indicate clearly which features are existing and which are proposed.
7. When the plan is a revision of a previously approved plan, note the revisions.

B. Information to be shown on Minor Subdivision Final Plan

1. Boundary Lines of Tract
  - a. The total tract boundary lines of the area being subdivided showing bearings and distances and a statement of total tract acreage.
    - (i) The boundaries of the lots being newly created shall be determined by accurate field survey, closed with an error not to exceed one in five thousand and balanced.
    - (ii) The boundaries of any residual tract which is ten (10) acres or less shall be determined by accurate field survey, closed with an error not to exceed one in five thousand and balanced.
    - (iii) The boundaries of any residual tract which is greater than ten (10) acres may be determined by deeds.



- b. Indicate all monuments as set or found.
2. Name of subdivision.
3. Name and addresses of the record owner (and subdivider) of the tract, and the source(s) of title to the land being subdivided as shown by the records of the Schuylkill County Recorder of Deeds. Tax map sheet, block and lot number for the tract being subdivided.
4. Names, addresses, signatures, license numbers, and seals of the Professional Engineer, Landscape Architect or Surveyor responsible for the preparation of the plan shall be indicated in the Certificate Accuracy (see Appendix D).
5. Date, including month, day and year that the final plan was completed and the month, day and year for all subsequent revision dates.
6. North arrow, graphic scale and written scale.
7. Location of Natural Features on the Site and Within 100 Feet of the Site
  - a. Contour lines at an interval of not more than two feet (2') shall be shown as follows:
    - (i) 0% to 15% slope - may be accurately superimposed from the latest USGS quadrangle map.
    - (ii) 15% or greater - shall be based on a field survey or photogrammetric procedure at a scale of 1" = 100' or larger.
  - b. Permanent and seasonal high water table areas, if any, should be noted.
  - c. Watercourses, lakes, flood-prone areas and wetlands with names, if any.
  - d. Location and extent of various soil types with Soil Conservation Service (SCS) definitions and Department of Environmental Protection (DEP) classifications for each.
  - e. Rock outcrops and stone fields, if any, should be noted.
  - f. Any other significant topographical features.
8. Location of existing Manmade Features on the Site and Within One Hundred Feet (100') of the Site

- a. Sufficient bearings, lengths of lines, radii, arc lengths, street widths, right-of-way and easement widths of all lots, streets, rights-of-way, easements and community or public areas to accurately and completely reproduce each and every course on the ground.
  - b. Existing lot layout on the site, including lot numbers.
  - c. Historic sites or structures, including name and description.
  - d. Sewer lines, storm water drains and culverts, water lines and electric lines, including size, location, and invert elevations of each as applicable.
  - e. Utility easements and restrictive covenants and easements for purposes which might affect development.
  - f. Names and numbers of streets within and adjacent to the subdivision.
9. Location map at a suitable scale showing the relation of the site adjoining properties and streets within one thousand (1000') feet, and all zoning district and municipal boundaries within one thousand (1000') feet.
10. Proposed Layout.
- a. Total acreage of site.
  - b. Proposed lot layout with identification number and total number of lots.
  - c. Lot width, depth and area.
  - d. Rights-of-way, restrictive covenants, and easements for all drainage, utilities, and other purposes which might affect development, with designation of areas to be dedicated to the public use.
  - e. Certification by the Pennsylvania Department of Environmental Protection (DEP) when individual sewerage disposal systems are to be installed (Sewer Planning Module).
  - f. The following items shall be shown on the plan using the symbols shown:
    - ° Proposed Well
    - Existing Well

- ★ Primary Absorption Field > Soil Probe Location
  - 
  - Percolation Test Location
  - g. Any storm drainage facilities or structures.
  - h. Location and type of all existing or set monuments.
  - i. All lots shall front on a public street, existing or proposed.
  - j. Lots for annexation or not for development shall be so noted. Required note for residue acreage “[Residue] is not for further development without the prior approval of the governing body responsible for the approval of the subdivision and land development.”
  - k. A note identifying by lot number the subdivided lots without adequate street frontage that cannot be further subdivided.
  - l. Intended use of subdivision.
11. Boundaries of all adjoining properties with names of landowners and Deed Book volume and page number.
  12. Zoning Requirements (From Branch Township Zoning Ordinance)
    - a. Applicable district.
    - b. Lot size and yard requirements.
    - c. Required open space.
    - d. Building setback lines.
    - e. Land use.
  13. Certificate of Ownership (see Appendix F&G):
    - a. The owner shall acknowledge said statement (see Appendix F&G) before an officer authorized to take acknowledgements.
    - b. The seal of a notary public shall be impressed to the plan acknowledging owner's statement of intent.

14. Certificate of Township Approval of the plan by the Township Supervisors and Township Planning Commission shall be lettered on the plan using the form in Appendix H.
15. A blank space measuring three and one-half (3-1/2") inches square shall be left, preferably adjacent to the Municipal Certification, in which the endorsement stamp of the County Planning Commission may be applied.
16. A blank space measuring three (3") inches square shall be left along the lower edge of the plan, in order that the Recorder of Deeds may acknowledge receipt of the plan.
17. One of the following general notes (whichever one applies at the time of subdivision submittal) shall be placed on the plan for informational purposes:

Less than 5 acres earth disturbance over the entire life of the project:

“As per the PA Clean Streams Law, Chapter 102, Erosion Control Program, an erosion and sedimentation control plan must be developed. The plan shall be submitted to the Schuylkill County Conservation District (SCCD) to be reviewed for adequacy. No earthmoving activities shall be initiated until a letter of adequacy has been issued to the owner/developer by the SCCD.”

Greater than 5 acres earth disturbance over the entire life of the project:

“The owner/developer must submit all NPDES permit applications for Stormwater Discharge from construction activities including, but not limited to, a complete erosion and sedimentation control plan as per the PA Clean Streams Law, Chapter 102, to the Schuylkill County Conservation District (SCCD). No earthmoving activities shall be initiated until an NPDES permit is issued.”

C. Covenants

1. All private deed restrictions already imposed or to be imposed as a condition to sale with references to the drawing.
2. The Township may require the inclusion of any specific restrictive covenants which will carry out the purposes of this Ordinance.

D. Additional Information. The Township may require the submission of additional information.

## ARTICLE 6 - MAJOR SUBDIVISION SKETCH PLAN

### 601. PRE-PLAN CONSULTATION

Prior to the submission of a Preliminary Plan, developers are encouraged to submit a Sketch Plan in person at a regular or special meeting of the Planning Commission. When submitted, Sketch Plans shall include the items in Section 602.

### 602. SKETCH PLAN SUBMISSION AND DRAWING REQUIREMENTS

- A. Submission Requirement. Six (6) print copies of the Sketch Plan shall be submitted in accordance with the provisions of this Article.
- B. Drawing Requirements. The Sketch Plan may be a scaled free-hand drawing and shall generally include:
  - 1. Approximate location of tract boundaries (may be obtained from County Tax Map or similar sources).
  - 2. Name of subdivision.
  - 3. Name, address, license number and seal of professional engineer, landscape architect, or surveyor responsible for the plan.
  - 4. Date, including the month, day, and year that the sketch plan was completed.
  - 5. North arrow, graphic scale, and written scale.
  - 6. Significant topographical and manmade features.
  - 7. A statement of the total acres of the tract.
  - 8. A location map showing the general location of the subject property, with sufficient information to enable the location with respect to the Township.
  - 9. Proposed street, parking, building, lot layout, landscaping, recreational facilities and other planned features with dimensions to nearest foot.
  - 10. Statement telling methods of liquid and solid waste management and water supply.

11. A statement of the intended use of lots and/or buildings within the development.
12. Zoning data including all of the following, if applicable:
  - a. Existing Township zoning regulations, including district designation, requirements for lot size, yards, lot coverage and building height limitations, and any zoning boundary lines traversing the property.
  - b. Any variances to be requested by the subdivider or land developer.
  - c. Any Township regulations, other than zoning, governing lot size and/or yard requirements.
13. Proposed water, sewer, and electric source.
14. Proposed stormwater management.
15. Proposed driveway locations.

## **ARTICLE 7 - MAJOR SUBDIVISION OR LAND DEVELOPMENT PRELIMINARY PLAN**

### **701. PURPOSE**

The purpose of the Preliminary Plan is to receive formal approval of the overall development scheme proposed in order to minimize the need for any revisions of Final Plans.

### **702. SUBMISSION AND REVIEW PROCEDURE**

#### **A. Preliminary Plan Submission Required**

1. A Preliminary Plan Submission for a Major Subdivision or Land Development must be filed by the Applicant and reviewed in accordance with the provisions of Article 7.
2. A Preliminary Plan Submission need not be filed for a Minor Subdivision or Boundary Line Adjustment (see Articles 4 & 5).

#### **B. Required Submission**

1. All of the information required in Article 6 for a Sketch Plan must also be included for Preliminary Plan.
2. The applicant shall file the plan at least ten (10) business days prior to a regularly scheduled Planning Commission meeting and all applications shall include the following:
  - a. Filing fee, as set by resolution of The Township Supervisors (see fee schedule available at Township Building), and the filing fee set forth by the Schuylkill County Planning Commission for review of the plan.
  - b. Two (2) copies each of the:
    - (i) Application Form (included in Appendix B)
    - (ii) Preliminary Plan Checklist (included in Appendix C.3).
  - c. \*A minimum of ten (10) copies of the preliminary plan.
  - d. \*A minimum of four (4) sets of supportive documents.

\* Note: The Township may require additional copies of the Final Plan and/or the supportive documents.

3. The Applicant shall forward plans to the following agencies when required and obtain their comments and approval prior to Preliminary Plan Approval:
  - a. Municipal Authority (if applicable).
  - b. County Conservation District.
  - c. PA Department of Transportation if State roads are involved (if State roads are involved, Highway Occupancy Permits must be filed).
  - d. Appropriate utility companies.
  - e. Sewage Enforcement Officer.
  - f. Department of Environmental Protection.
4.
  - a. Each Preliminary Plan filed shall:
    - (i) Provide the information required by Section 703.
    - (ii) Conform to any changes recommended during the Sketch Plan procedure.
  - b. All sheets of Supportive documents shall provide the information required by Section 704.

C. Review by Various Agencies

1. The preliminary plan is reviewed by the Township Engineer, Township Code Enforcement Officer, County Planning Commission and if deemed necessary other Officials. These reviewers will report their findings to the Planning Commission and Township Supervisors.
2. All plan reviews of the Preliminary Plan Submission shall be based on the objectives and requirements of this Ordinance, as well as, other applicable ordinances, and statutes.
3. The Reviewing Agencies may make additional reports and recommendations to the Planning Commission and Township Supervisors during review of the plan.
4. Applicant should solicit reviews and reports from adjacent municipalities and



other government agencies affected by the plan

- D. Review by Township Planning Commission. Within ninety (90) days following the date of the regular Township Planning Commission meeting the Preliminary Plan was submitted for review (unless the Applicant grants a written extension of time for the Township review of such Submission), the Township Planning Commission shall:
1. Review all applicable reports received from the agencies and officers.
  2. Determine whether the Preliminary Plan Submission meets the objectives and requirements of this Ordinance, as well as, other applicable ordinances, and statutes.
  3. Review the Preliminary Plan Submission with the Applicant, his agent, or representative and recommend any needed revisions so that the Submission will conform to this Ordinance, other ordinances, and statutes.
  4. Recommend approval, conditional approval, or disapproval of the Preliminary Plan Submission in a written report to the Township Supervisors, specifying and recommended conditions for approval, identifying any defects found by the application, describing any requirements which have not been met, citing the provisions of any ordinance or statute relied upon.
- E. Review by The Township Supervisors. The Township Supervisors shall:
1. Review the report of the Commission.
  2. Review the report of all other reviewing agencies received within forty-five (45) days from the date the Submission was forwarded to such agencies (the Township Supervisors may review the reports of such agencies received after the forty-five (45) day period).
  3. Determine whether the Preliminary Plan Submission meets the objectives and requirements of this Ordinance as well as other applicable ordinances and statutes.
  4. Approve or reject the Preliminary Plan Submission within the time required by the Pennsylvania Municipalities Planning Code Act 247 (Currently the Act requires the Township Supervisors to act not later than ninety (90) days following the date of the first regular meeting of the Township Planning Commission held after it has accepted the Submission as being filed for review; but in no case shall the Township Supervisors's decision be made

later than one hundred twenty (120) days following the date the Submission was accepted as being filed for review, unless the Applicant grants a written extension of time).

F. Decision by The Township Supervisors

1. The decision of the Township Supervisors shall be in writing and shall be communicated to the Applicant personally or by mail at his last known address not later than fifteen (15) days following the decision.
2. Approval of the Preliminary Plan Submission shall constitute conditional approval of the subdivision or land development as to the character and intensity, but shall not constitute approval of the Final Plan or authorize the sale of lots or construction of buildings.
3. When the Preliminary Plan Submission is disapproved, the decision shall specify the defects found in the Submission, shall describe the requirements which have not been met, and shall cite the provisions of the statute or ordinance relied upon in each case.
4. Failure of the Township Supervisors to render a decision and communicate it to the Applicant within the time and in the manner required by Pennsylvania Municipalities Planning Code, Act 247 shall be deemed an approval of the plan as presented, unless the Applicant has agreed in writing to an extension of time or change in the prescribed manner of communication of the decision.

G. Development in Stages

1. The preliminary plan will provide a plan for the entire subdivision. If requested by the Applicant, the Township Supervisors may permit the undertaking of the required improvements and the preparation of the Final Plan to be completed in a series of sections or stages, each covering a portion of the proposed subdivision as shown on the Preliminary Plan.
2. The undertaking of any improvements cannot commence until Final Approval is obtained for the section for which plans have been submitted for.
3. If the Final Plan is to be filed in sections or stages, each section or stage shall relate logically to provide continuity of access, extension of utilities, and availability of amenities.
4. The Township Supervisors shall approve the boundaries and configuration of stages or sections of a development.

H. Final Plan Submission Deadline

1. An Applicant shall file a Final Plan within one (1) year from the date of the approval of the Preliminary Plan by the Township Supervisors, unless an extension in writing has been granted by the Township Supervisors.
2. Failure to comply with this requirement shall render the Preliminary Plan null and void, and a new Preliminary Plan shall be submitted.

703. PRELIMINARY PLAN REQUIREMENTS

A. Plans Required

1. The following plans shall be required for all major subdivisions and land developments and shall show the information set forth in Sections 703.B through 703.K, as applicable:
  - a. Layout Plan (see Sections 703.B, C, D, and E)
  - b. Grading and Storm Drainage Plan (see Sections 703.B, C, D, and F)
  - c. Utility Plan (see Sections 703.B, C, D, and G)
  - d. Erosion and Sedimentation Plan (see Sections 703.B, C, D, and H)
  - e. Road Profiles (see Sections 703.B, C, and I)
  - f. Sanitary Sewer Profiles (see Sections 703.B, C, and J)
  - g. Storm Sewer Profiles (see Sections 703.B, C, and J)
  - h. Construction Details (see Sections 703.B, C, and K)
  - i. Key Plan, if Preliminary Plan contains more than one sheet.
2. The Plans listed in Section 703.A.1 may be combined if, in the discretion of the Planning Commission, clarity of such plans will not be impaired.

B. Drafting Standards Required for All Plans

1. Plans shall be prepared on a sheet no larger than 24" x 36".

2. All information shall be legibly and accurately presented.
3. Appropriate Scales
  - a. Plans shall be drawn at a scale of:
    - (i) One inch (1") equals fifty feet (50'); or
    - (ii) One inch (1") equals one hundred feet (100').
  - b. Profiles shall be drawn at a vertical scale of:
    - (i) Five feet (5') per inch or ten feet (10') per inch (for horizontal scale of 1"=50'); or
    - (ii) Ten feet (10') per inch (for horizontal scale of 1"=100').
  - c. The Township Supervisors may approve other acceptable scales.
4. All dimensions shall be set in feet and decimal parts thereof, and all bearings shall be set in degrees, minutes, and seconds.
5. Each sheet shall be numbered and shall show its relationship to the total number of sheets. If match lines are employed, a legend showing sheet relationship shall be provided.
6. Plans shall be so prepared and shall bear an adequate legend to indicate clearly which features are existing and which are proposed.
7. Where any revision is made, or when the plan is a revision of a previously approved plan, dotted lines shall be used to show features or locations to be abandoned and solid lines to show the currently proposed features. Notations of revisions shall be dated.

C. General Information Required on All Plans

1. Title of Submission (e.g. "Preliminary Plan", "Final Plan").
2. Sheet title (e.g. "Layout Plan").
3. Name of subdivision or land development.
4. Name and address, license number, signature and seal to Engineer's Statement (see Appendix D) of the professional engineer, architect, landscape architect, or surveyor responsible for the preparation of the plan.
5. Date including month, day, and year of plan completion and all subsequent

revision dates.

6. Graphic and/or written scales.
7. One of the following general notes (whichever one applies at the time of subdivision submittal) shall be placed on the plan for informational purposes:

Less than 5 acres earth disturbance over the entire life of the project:

“As per the PA Clean Streams Law, Chapter 102, Erosion Control Program, an erosion and sedimentation control plan must be developed. The plan shall be submitted to the Schuylkill County Conservation District (SCCD) to be reviewed for adequacy. No earthmoving activities shall be initiated until a letter of adequacy has been issued to the owner/developer by the SCCD.”

Greater than 5 acres earth disturbance over the entire life of the project:

“The owner/developer must submit all NPDES permit applications for Stormwater Discharge from construction activities including, but not limited to, a complete erosion and sedimentation control plan as per the PA Clean Streams Law, Chapter 102, to the Schuylkill County Conservation District (SCCD). No earthmoving activities shall be initiated until an NPDES permit is issued.”

D. Information Required on All Layout Plans, Grading and Storm Drainage Plans, Utility Plans, and Erosion and Sedimentation Plans

1. General information:
  - a. north arrow
  - b. site boundaries with closure of 1 in 10,000
  - c. boundaries of all adjoining properties with names of landowners
  - d. location, type, material, and size of all existing or set monuments
2. Natural features:
  - a. generalized slope areas
    - (i) 15-25%
    - (ii) over 25%
  - b. location and extent of various soil types with SCS classification and

DEP definition for each

- c. forested areas
  - d. watercourses, lakes, flood-prone areas, and wetlands (together with names, if any)
3. Location of existing man-made features on the site and within one hundred feet (100') from the site being subdivided or developed.
- a. streets and rights-of-way (including name and right-of-way widths) on the site and on immediately adjacent tracts
  - b. existing lot layout on the site or on immediately adjacent tracts, including lot number
  - c. historic sites or structures, including name and description
  - d. sewer lines, storm drains, and culverts including, but not limited to, water lines and electric
  - e. bridges
  - f. utility easements, restrictive covenants, and easements for purposes which might affect development
4. Proposed features:
- a. layout of streets with centerlines, cartways and right-of-ways, and proposed names
  - b. layout of lots with identification number
  - c. building setback lines from all lot lines
  - d. in non-residential developments and planned residential developments, the arrangement and use of buildings and parking areas, with all necessary dimensions and number of parking spaces (elevations and perspective sketches of proposed buildings are encouraged)
  - e. rights-of-way, restrictive covenants, and easements for all drainage, utilities, or other purposes which might affect development

- f. sidewalks and pedestrian paths
- g. open space areas
- h. recreation facilities
- i. proposed monuments with reference to proposed improvements
- j. The following items shall be shown on the plan using the symbols shown:

- Proposed Well
- Existing Well
- ★ Primary Absorption Field
- ^ Soil Probe Location
- Percolation Test Location
- 

E. Layout Plan

- 1. Names and addresses of:
  - a. landowner
  - b. developer
  - c. adjoining property owners, including those across adjacent roads
- 2. Location map at a scale of 1"=2000' or larger showing the relation of the site to adjoining properties, streets, zoning district boundaries, and municipal boundaries within one thousand (1000') feet.
- 3. Project summary list - the following information shall be listed on the Plan:
  - a. total acreage of site
  - b. applicable zoning district(s)
  - c. total number of lots in this development

- d. density of dwelling units per acre
- e. required lot size (from Zoning Ordinance)
- f. proposed lot size, maximum, minimum, and average
- g. open space required
- h. open space proposed
- i. type of water systems
- j. type of sanitary disposal systems
- k. lineal feet of new road
- l. deed source: volume and page
- m. tax map: block and lot
- n. required building setbacks
- o. intended usage
- p. parcels of land to be dedicated or reserved for schools, parks, playgrounds, or other public, semi-public, or community purposes must be noted on plans
- q. provision for pedestrian circulation throughout the tract, when provided by means other than sidewalks

4. Proposed or Existing Features:

- a. approximate dimensions, and areas of lots expressed in both square feet and acres
- b. streets
  - (i) cartway and right-of-way width
  - (ii) centerline with bearings, distances, horizontal curve data and stations corresponding to the profile
  - (iii) right-of-way and curb lines with horizontal curve radii at intersections
  - (iv) beginning and end of proposed construction



- (v) tie-ins by courses and distances to intersection of all public roads, with their names and widths of cartway and right-of-way
    - (vi) name
  - c. curve data for all curves included in the plans
  - d. clear sight triangles for all intersections
- 5. Owner's Statement of Acknowledgement (see Appendix F & G):
  - a. The owner shall acknowledge the statement contained in Appendix F & G before an officer authorized to take acknowledgements.
  - b. The seal of the notary public or other qualified officer acknowledging the owner's statement shall be impressed to the Plan and the signature of the owner on each cover sheet.
- 6. Certificate of Municipal Approval of the Plan by the Township Supervisors and Township Planning Commission shall be lettered on the plan, using the form in the Appendix.
- 7. A blank space measuring three and one-half inches (3-1/2") square shall be left, preferably adjacent to the Municipal Certification, in which the endorsement stamp of the County Planning Commission may be applied.
- 8. A blank space measuring three inches (3") square shall be left along the lower edge of the plan, in order that the Recorder of Deeds may acknowledge receipt of the plan.
- 9. The names of any abutting subdivisions and land developments and the book and page numbers where recorded.

F. Grading and Storm Drainage Plan

- 1.
  - a. Existing and proposed contour lines at intervals of:
    - (i) Two feet (2') (if slope is between 0% and 15%)
    - (ii) Five feet (5') (if slope is over 15%)
  - b. These contour intervals shall be based on a field survey or photogrammetric procedure at a scale of 1"=100' or larger. Extrapolation from USGS maps shall not be acceptable. The datum to which elevations refer shall be stated.

- c. The Planning Commission may waive the contour requirements or require a lesser interval to provide for proper design or slope delineation.
2. Street centerline data and stations corresponding to the profile.
  3. Storm drainage:
    - a. location and size of facilities with stations corresponding to the profile
    - b. location of inlets with invert elevation of flow line and grade at the top of each inlet
    - c. watershed areas for each drainage structure or swale
    - d. property lines and ownership, with details of easements where required
    - e. beginning and end of proposed construction
    - f. location of all other drainage facilities and public utilities in the vicinity of storm drain lines
    - g. hydraulic design standards for culverts, bridge structures, and/or other storm facilities
  4. Location and size of proposed drainage swales.

G. Utility Plan

1. If on-lot sanitary sewage disposal systems are being proposed:
  - a. existing and proposed contour lines at intervals of:
    - (i) Two feet (2') (if slope is between 0% and 15%)
    - (ii) Five feet (5') (if slope is over 15%)

(NOTE: These contour intervals shall be based on a field survey or photogrammetric procedure at a scale of 1"=100' or larger. Extrapolation from USGS maps shall not be acceptable. The Township Supervisors may waive the contour requirements or require a lesser interval to provide for proper design or slope delineation.)

- b. proposed location of wells
  - c. proposed or typical location of dwelling
  - d. proposed location of subsurface disposal field
  - e. location of percolation test holes and soil probe pit
2. If centralized sanitary sewers are being proposed:
- a. location and size of line with stations corresponding to the profile
  - b. location of manholes with invert elevation of flow line and grade at the top of each manhole
  - c. property lines and ownership, with details of easements where required
  - d. beginning and end of proposed construction
  - e. location of laterals
  - f. location of all other drainage facilities and public utilities in the vicinity of sanitary sewer lines
3. If centralized water system is being proposed:
- a. location and size of waterline
  - b. plans pertaining to water source
  - c. An engineer's report shall be prepared and shall contain complete and accurate information relating to said community water supply. This report shall include, but shall not be limited to the following: mains, submains, valves, location and type of fire hydrants, water pressure to be delivered to the proposed properties, and a statement from the water company that said company can and will supply the water as proposed in the developer's plan.
4. If on-lot water system is being proposed, location of all wells (existing and proposed).
5. Street lighting.

6. Gas mains, electric, telephone, and cable lines should be shown.

H. Erosion and Sedimentation Plan

1. Shall comply with the DEP Soil Erosion and Sedimentation Control Manual and be in accordance with the regulations of the Schuylkill Conservation District.
2. All storm water runoff calculations shall be governed by the parameters set forth in Appendix I.

I. Road Profiles

1. Profile of existing ground surface along centerline of street.
2. Proposed centerline grade with percent on tangents and elevations at fifty foot (50') intervals.
3. All vertical curve data including length, elevations, and minimum sight distance as required by Article 11.

J. Sanitary Sewer and Storm Drain Profiles

1. Profile of existing ground surface with elevations at top of manholes or inlets.
2. Profile of storm drain or sewer showing type and size of pipe, grade, cradle, manhole, and inlet locations, and invert elevations along flow line.
3. All line crossings of other utilities.
4. Invert elevations along flow line at manholes, inlets, and at line crossing of other utilities.

K. Construction Details

1. Typical cross-section and specifications for street construction as required by Article 11.
2. Drainage swale cross-section and construction materials.
3. Pipe bedding details.
4. Storm drainage structures (including) ponds.

5. Sanitary sewer structures.
  6. Water line details.
  7. Other utility details
  8. Curb and sidewalk details.
  9. Any other details required by this Subdivision and Land Development Ordinance.
- L. No subdivision or land development plan which will require access to a highway under the jurisdiction of the Pennsylvania Department of Transportation shall be finally approved unless the submission contains a receipt that a highway occupancy permit has been approved pursuant to Section 420 of the Act of June 1, 1945, known as the State Highway Law before driveway access to a State highway is permitted.

#### 704. SUPPORTIVE DOCUMENTS AND INFORMATION

##### A. General Information

1. All private deed restrictions or covenants already imposed or to be imposed as a condition of sale shall be provided.
2. A map of all property holdings of the owner within one thousand feet (1000') of the proposed subdivision, indicating the site of proposed subdivision shall be provided. A sketch plan of a proposed road system with any property holdings contiguous to the proposed subdivision.

##### B. Certification of a Centralized Sewage Disposal System

1. Public. If the subdivision or land development is to be served by an existing sewer company or authority, the developer shall submit a copy of a letter from the company or authority which states that the company or authority can adequately serve the subdivision and which states any conditions required by the company or authority for the provision of services.
2. Private. If the subdivision or land development is to be served by a private centralized sewage disposal system, the developer shall submit a copy of a completed Planning Module for Land Development.

##### C. Certification of On-Lot Sewage System When the subdivision or land

development is to be served by individual on-lot sewage disposal systems the developer shall submit a copy of a completed Planning Module for Land Development, Method of Maintenance and Billing, Ownership, etc.

- D. Certification of Public Water Supply System. If the subdivision or land development is to be served with water by an existing water company or authority, the developer shall submit a copy of a letter from such water company or authority which states that the company or authority can adequately serve the subdivision and which states any conditions required by the company or authority for the provision of services.
- E. Storm Drainage Calculations. All calculations (which shall be in accordance with Section 1120) relating to facilities appearing on the Grading and Storm Drainage Plan and the Erosion and Sedimentation Plan shall be submitted for review by the Township Engineer.
- F. Development Statement and Schedule. A statement setting forth in detail the character of the improvements the Applicant proposes to make on the property to be developed and a development schedule indicating the approximate date when construction can be expected to begin and be completed.
- G. Highway Occupancy Permit. When required, a copy of the Highway Occupancy Permit approved by PENNDOT for access to any adjoining State highway and written comments indicating approval of occupancy permits at locations designated on submitted plans shall be provided to the Township.
- H. Current Deed of Tract Being Subdivided. A copy of the current deed of the tract being subdivided shall be submitted.
- I. Protective Covenants. A description of the protective covenants or private restrictions to be incorporated in as though a part of the subdivision shall also be presented to the Township.
- J. Preliminary design of any bridges or culverts meeting the applicable requirement of the Pennsylvania Department of Transportation and Pennsylvania Department of Environmental Protection shall be provided for review by the Township Engineer.
- K. A complete report on subsurface coal conditions must be filed for areas underlain by coal. Such a report shall show conditions of mining, if any, and a statement that no possibility of subsidence exists. All strip mines, spoil banks and bodies of water in abandoned stripping pits within one-half (1/2) mile of any development must also be accurately located and shall be so shown.

## ARTICLE 8 - MAJOR SUBDIVISION OR LAND DEVELOPMENT - FINAL PLAN

### 801. PURPOSE

The purpose of the Final Plan is to receive formal approval before plans for all major subdivisions and land developments are recorded.

### 802. SUBMISSION AND REVIEW PROCEDURE

#### A. Final Plan Submission Required

1. A Final Plan Submission for each major subdivision or land development must be filed by the Applicant and reviewed in accordance with the provisions of Article 8.
2. A Final Plan for a minor subdivision shall be filed by the Applicant and reviewed in accordance with the provisions of Article 5.

#### B. Submission Deadline

1. An Applicant shall file a Final Plan Submission within one (1) year from the date of the approval of the Preliminary Plan by the Planning Commission, unless an extension in writing has been granted by the Planning Commission.
2. Failure to comply with this requirement shall render the Preliminary Plan Submission null and void, and a new Preliminary Plan Submission must be filed.

#### C. Required Submission

1. The Final Plan itself shall contain all of the information required for Preliminary Plan Approval in addition to the information required in accordance with the Provision of Article 8.
2. The applicant shall file the plan at least ten (10) business days prior to the regularly scheduled Planning Commission meeting and all applications shall include the following:

- a. Filing fee, as set by resolution of the Township Supervisors (see fee schedule available at Township Building), and the filing fee set forth by the Schuylkill County Planning Commission for review of the plan.
- b. Two (2) copies each of the:
  - (i) Application form (included in Appendix B).
  - (ii) Final Plan checklist for major subdivision or land development (included in Appendix C.4).
- c. \*A minimum of ten (10) copies of the Final Plan.
- d. \*A minimum of four (4) copies of the supportive documents.

\*Note: The Township may require additional copies of the Final Plan and/or the supportive documents.

- 3. The Applicant shall forward plans to the following agencies when required and obtain their comments and approval prior to Final Plan Approval (where applicable):
  - a. Municipal Authority (if applicable).
  - b. County Conservation District.
  - c. PA Department of Transportation if State roads are involved (if State roads are involved, Highway Occupancy Permits must be filed).
  - d. Appropriate utility companies.
  - e. Sewage Enforcement Officer.
  - f. Department of Environmental Protection.
- 4.
  - a. Each Final Plan filed shall:
    - (i) provide the information required by Section 703.
    - (ii) conform with the approved Preliminary Plan and any changes recommended during the Preliminary Plan review.
  - b. All sheets of Supportive Documents shall provide the information required by Section 804.



D. Review by Various Agencies

1. The final plan may be reviewed by the Township Engineer, Township Code Enforcement Officer, County Planning Commission, and if deemed necessary other officials. These reviewers will report their findings to the Township Planning Commission and Township Supervisors.
2. All plan reviews of the Final Plan Submission shall be based on the objectives and requirements of this Ordinance, as well as other applicable ordinances and statutes.
3. The Reviewing Agencies may make additional reports and recommendations to the Planning Commission and Township Supervisors during review of the Plan.
4. Applicant should solicit reviews and reports from adjacent municipalities and other government agencies affected by the plan

E. Review by Commission. Within ninety (90) days following the date of the regular Township Planning Commission meeting after the final plan was submitted for review (unless the Applicant grants a written extension of time for the Township review of such Submission), the Township Planning Commission shall:

1. Review all applicable reports received from the agencies and officers.
2. Determine whether the Final Plan Submission meets the objectives and requirements of this Ordinance, as well as other applicable ordinances and statutes.
3. Review the Final Plan Submission with the Applicant, his agent, or representative and recommend any needed revisions so that the Submission will conform to this Ordinance, other ordinances, and statutes.
4. Recommend approval, conditional approval, or disapproval of the Final Plan Submission in a written report to The Township Supervisors, specifying and recommending conditions for approval, identifying any defects found by the application, describing any requirements which have not been met, citing the provisions of any ordinance or statute relied upon.

F. Review by the Township Supervisors. The Township Supervisors shall:

1. Review the report of the Commission.
2. Review the report of all other reviewing agencies received within forty-five

(45) days from the date the Submission was forwarded to such agencies (Township Supervisors may review the reports of such agencies received after the forty-five (45) day period).

3. Determine whether the Final Plan Submission meets the objectives and requirements of this Ordinance, as well as other applicable ordinances and statutes.
4. Approve or reject the Final Plan Submission within the time required by the Pennsylvania Municipalities Planning Code Act 247 (Currently the Act requires the Township Supervisors to act not later than ninety (90) days following the date of the first regular meeting of the Township Planning Commission held after it has accepted the submission as being filed for review; but in no case shall the Township Supervisors's decision be made later than one hundred twenty (120) days following the date the Submission was accepted as being filed for review, unless the Applicant grants a written extension of time).

G. Decision by The Township Supervisors

1. The decision of the Township Supervisors shall be in writing and shall be communicated to the Applicant personally or by certified or registered mail to his last known address, not later than fifteen (15) days following the decision.
2. Offers of Dedication
  - a. Approval of the Final Plan Submission shall not constitute an acceptance of the dedication of any street or other proposed public way, space, or area shown on the Final Plan.
  - b. Any such acceptance of dedication shall be specifically stated along with the signatures required for approval.
  - c. If the Township Supervisors elects to accept lands offered for dedication, the Submission shall be accompanied by duly executed instruments of conveyance to the County or Township. Such instruments shall state that the title thereof is free and unencumbered.
3. When the Final Plan Submission is disapproved, the decision shall specify the defects found in the Submission, shall describe the requirements which have not been met, and shall cite the provisions of the statute or ordinance relied upon in each case.
4. Failure of the Township Supervisors to render a decision and communicate it

to the Applicant within the time and in the manner required by the Pennsylvania Municipalities Planning Code Act 247, shall be deemed an approval of the Plan as presented, unless the Applicant has agreed in writing to an extension of time or change in the prescribed manner of communication of the decision.

5. At the request of the Applicant, the Township Supervisors shall furnish the Applicant with a signed copy of a resolution indicating approval of the Applicant's Final Plan contingent upon the Applicant obtaining a satisfactory financial security. The Final Plan will not be signed by Township officials until a satisfactory financial security is presented. The resolution of contingent approval shall expire and be deemed to be revoked if the financial security agreement is not executed within ninety (90) days, unless a written extension is granted by the Township.
6. For all subdivisions where the lots are to be served by other than individual wells, for a land development to be served by other than an individual well, the Applicant shall present evidence to the Township that the subdivision or land development is to be supplied by a certified public utility, a bona fide cooperative association of lot owners or by a municipal corporation, authority or utility. A copy of a Certificate of Public Convenience from the Pennsylvania Public Utility Commission or an application for such certificate, a cooperative agreement or a commitment or agreement to serve the area in question, whichever is appropriate, shall be acceptable evidence.

### 803. FINAL PLAN REQUIREMENTS

- A. All Final Plan Requirements shall be in accordance with Section 703, Preliminary Plan requirements and the additional items listed below in Section 803.B.
- B. Additional Requirements
  1. A property survey shall be performed of the entire tract to be developed if it is less than ten (10) acres in size. In cases where the tract is over ten (10) acres and only a portion of it is to be developed, only that portion to be developed need be surveyed.
  2. Protective covenants providing for:
    - a. Building setbacks
    - b. Clear sight triangle easements

- c. Utility, drainage, and slope easements
- d. Well and sewage disposal systems shall be constructed in accordance with recommended standards of the Pennsylvania Department of Environmental Protection (if applicable).
- e. Individual owners of lots must apply to the Municipality for a sewage permit prior to undertaking the construction of an on-lot sewage disposal system (if appropriate).
- f. The Planning Commission has not passed upon the feasibility of any individual lot or location within a lot being able to sustain any type of well or sewage disposal system (if appropriate).

C. Landscape Plan

- 1. This Plan shall show:
  - a. existing vegetation to be removed
  - b. existing vegetation to be preserved
  - c. proposed planting schedule, including the locations, species, and sizes of plantings
  - d. existing and proposed grades

D. Other Additional Information

- 1. If the subdivision or land development proposes a new street or driveway intersection with a State Road, a letter from PENNDOT indicating approval of such intersection must be received.
- 2. A copy of all permits from PADEP for affecting water courses, bodies of water, or water obstructions must be obtained.
- 3. A letter from the Schuylkill Conservation District indicating that the erosion and sedimentation control measures detailed on the plan will be acceptable.
- 4. A street lighting plan indicating location, type, height of fixture, and illumination area specified in accordance with acceptable lighting standards published by the Lighting Engineers Society must be shown on the plan.

5. The proposed location and type of traffic control devices, such as stop bars, signs, line painting, street names, islands, etc. must be shown on the plan.
6. In the case of sewage disposal proposed by sub-surface or alternate methods, all approved local and state permits and planning modules must be submitted.

804. SUPPORTIVE DOCUMENTS AND INFORMATION

- A. Deed Restrictions. All private deed restrictions or covenants already imposed or to be imposed as a condition to sale shall be provided.
- B. Dedicated Improvements. The developer shall provide a deed of dedication together with an 8.5" x 11" plan of each such improvement.
- C. Nondedicated Streets Agreement.
  1. Agreement for any street not offered for dedication.
  2. Such agreement shall state who is responsible for the improvement and maintenance of such streets until dedicated to the Township.
  3. If an association of lot owners is made responsible, such association must be legally organized prior to plan approval.
- D. Open Space Agreement. A formal contract providing for the maintenance of open space and the method of management, together with all offers of dedication and covenants governing the reservation and maintenance of undedicated open space, bearing the certificate of approval of the Township Solicitor.
- E. Utilities Agreements and Permits.
  1. All signed agreements or contracts with utility companies, water companies or authorities, or sewage companies or authorities for the provision of services to the subdivision.
  2. Approval letters from all appropriate Federal and State agencies of any private centralized water supply system or sewage disposal system.
- F. Storm Drainage Calculations. All calculations relating to facilities appearing on the Grading and Storm Drainage Plan and the Erosion and Sedimentation Plan shall be submitted for review by the Township Engineer (see Appendix I and Section 1120).
- G. Development Statement and Schedule. A statement setting forth in detail the

character of the improvements the Applicant proposes to make on the property to be developed and a development schedule indicating the approximate date when construction can be expected to begin and be completed.

- H. Current Deed of Tract Being Subdivided. A copy of the current deed of the tract being subdivided shall be submitted for review by the Township.
- I. Guarantee of Improvement Installation – See Section 901
- J. Traffic Impact Study – See Section 1212.

**ARTICLE 9 - GUARANTEE OF IMPROVEMENTS INSTALLATION**

901. GUARANTEE OF IMPROVEMENTS INSTALLATION REQUIRED

Before approving a subdivision or land development plan for recording, the Township Planning Commission and Township Supervisors require that the Township be assured (by means of a proper Development Agreement and Performance Guarantee) that the improvements required by this Ordinance and the improvements appearing on the plan will be installed in strict accordance with the standards and specifications of this Ordinance.

902. IMPROVEMENTS TO BE PROVIDED BY THE APPLICANT

- A. In all cases, the subdivider or land developer shall be responsible for the installation of all improvements required by this Ordinance.
- B. The Township Engineer or the Township's designee shall make such inspections of the required improvements to assure compliance with this Ordinance. The reasonable costs of such inspection shall be borne by the subdivider or land developer.

903. DEVELOPMENT AGREEMENT

- A. Development Agreement Required
  - 1. All Applicants proposing any subdivision or land development which provide for the installation of improvements required by this Ordinance or any improvements or amenities which appear on the plan shall be required to enter into a legally binding Development Agreement with the Township prior to Final Plan Approval. A copy of this agreement is provided in Appendix J.
  - 2. The Development Agreement shall guarantee the installation of said improvements in strict accordance with all Township requirements.
  - 3. The Final Plan shall not be approved by the Township Planning Commission or Township Supervisors prior to the execution of this agreement and the delivery of the Performance Guarantee.
- B. Terms of Development Agreement. The Development Agreement shall be in the manner and form approved by the Township Solicitor and it shall consist of the following terms, where applicable:

1. Required Improvements
  - a. Setting Property corners.
  - b. The construction of streets with related curbs, street signs, drainage facilities, and related improvements.
  - c. The installation of utility lines.
  - d. The construction depicted upon the approved plans in itemized format.
2. Schedules
  - a. A work schedule prepared by the developer's engineer setting forth the beginning and ending dates and such other details as the Township deems fit and appropriate for the improvements covered by the Development Agreement.
  - b. An inspection schedule approved by the Township Engineer (the developer shall provide the Township Engineer with notice at least forty-eight hours prior to scheduling inspections).
3. Performance Guarantee
  - a. The provision of a Performance Guarantee for completion of required improvements which complies with Section 904.
  - b. The estimated cost of the improvements, including a detailed breakdown in a form acceptable to the Township Planning Commission and Township Supervisors and amount of the Performance Guarantee.
  - c. All improvements subject to the Development Agreement shall be approved according to the approved inspection schedule and Section 904.
4. Liability
  - a. The developer's responsibilities for damage to other property.
  - b. The developer shall secure or maintain public liability insurance for the duration of improvements construction. A copy (of other evidence of coverage) shall be submitted to the Township.



- c. A save harmless clause to protect the Township from liability.
  - d. The prevention of erosion, sedimentation, and water damage to the subject and adjacent properties.
5. The dedication of streets, transfer of water and sewer lines and easements.
  6. The developer shall provide the Township with a set of "record drawings" plans prepared and certified by a Professional Engineer or Licensed Surveyor registered in the State of Pennsylvania depicting all streets, storm and sanitary sewers, and water distribution facilities.
  7. The developer shall be responsible for all reasonable engineering and legal costs and expenses for review, inspection, consultations, and preparation of agreements.
  8. The provisions for violation of the Development Agreement.
  9. Any other lawful terms which the Township Solicitor may require to carry out the provisions of this Ordinance.

904. PERFORMANCE GUARANTEE

The Performance Guarantee for completion of required improvements shall meet the following requirements:

A. Security

1. The Guarantee shall be secured by the credit of any of the following:
  - a. An irrevocable and unconditional letter of credit of a Federal or Commonwealth chartered lending institution.
  - b. A restrictive or escrow account in a Federal or Commonwealth chartered lending institution.
  - c. Such other financial security approved by the Township (which approval shall not be unreasonably withheld).
2. Such bond, or other security shall provide for, and secure to the public, the completion of any improvements which may be required on or before the date fixed in the formal action of approval or the date fixed in the Development

Schedule for the completion of such improvements.

3. Such financial security shall be posted with a bonding company or Federal or Commonwealth chartered lending institution chosen by the party posting the financial security executed by such sureties as are named in the current list of "Companies Holding Certificates of Authority as Acceptable Sureties on Federal Bonds and as Acceptable Reinsuring Companies" as published in Circular 570 (amended) by the Audit Staff, Bureau of Government Financial Operations, US Treasury Department.

B. Amount

1. The amount of financial security shall be equal to one hundred ten percent (110%) of the cost of the required improvements for which financial security is to be posted.
2. Cost of Improvements
  - a. The cost of the improvements shall be established by an estimate prepared by the developer's professional engineer, submitted for approval from the Township upon the recommendation of the Township Engineer. The estimate will be based on the situation that the Township was requesting bids and completing the work.
  - b. The cost of such improvements shall be the cost as of ninety (90) days following the projected date of completion of such improvements plus ten percent (10%) of such cost. Annually, the Township may adjust the amount of bond required to ensure it remains equal to the said one hundred and ten percent (110%) referenced in this subsection.
3. If the party posting the financial security requires more than one (1) year from the date of posting of the financial security to complete the required improvements, the amount of financial security shall be increased by an additional ten percent (10%) for each one-year period beyond the first anniversary date from posting of financial security or to an amount not exceeding one hundred ten percent (110%) of the cost of completing the required improvements as re-established on or about the expiration of the preceding one-year period by using the above bonding procedure.

- C. Multi-Year or Multi-Stage Development. In the case where development is projected over a period of years, the Township Supervisors may authorize submission of final plats by section or stages of development subject to such requirements or guarantees as to improvements in future sections or stages of development as it finds essential

for the protection of any finally approved section of the development.

#### 905. APPROVAL OF IMPROVEMENTS

- A. In General. As the work of installing the required improvements proceeds, the party posting the financial security may request the Township Supervisors to release or authorize the release, from time to time, such portions of the financial security necessary for payment to the contractor or contractors performing the work.
  
- B. Notice of Completion. When the developer has completed an improvement, the developer shall notify the Township Supervisors in writing by certified or registered mail of such completion and request for release and shall send a copy thereof to the Township Engineer.
  
- C. Township Engineer's Report
  - 1. Within thirty (30) days of the receipt of such request, the Township Engineer shall submit a written report certifying which improvements have been completed in accordance with the approved plan to the Township Supervisors and mail a copy of such report by certified or registered mail to the developer at his last known address.
  - 2. This report shall be based on the inspections made according to the approved inspection schedule included in the Development Agreement and shall recommend approval or rejection of the improvements, either in whole or in part.
  - 3. If the Township's Engineer finds any or all of the improvements to be not as required, the report shall include a statement of the reasons for recommending rejection.
  
- D. Decision by The Township Supervisors
  - 1. At its first regularly scheduled meeting after receiving the Township Engineer's Report (but not later than forty-five (45) days of the receipt of the request) the Township Supervisors shall review the Township Engineer's Report and shall authorize release of an amount as estimated by the developer's engineer fairly representing the value of the improvements completed after review and approval by the Township Engineer.
  - 2. The Township Supervisors shall be deemed to have approved the release of funds as requested if the Township Supervisors fails to act within forty-five (45) days of receipt of the developer's request.

3. Until final release (completion of all improvements), the Township Supervisors shall require retention of ten percent (10%) of the cost of each completed improvement.
  4. The Township Supervisors shall notify the developer in writing by certified or registered mail of the decision.
- E. Completion of Unapproved Improvements. The developer shall proceed to complete any improvements not approved by the Township Supervisors and, upon completion, request approval in conformance with the procedures specified in Section 905.
- F. Final Release
1. When the developer has completed all of the necessary and appropriate improvements, the developer shall request Final Approval in conformance with the procedures specified in Section 905.
  2. Such Final Release shall include all monies retained under Section 905.D.3.
- G. Appeal. Nothing herein, however, shall be construed in limitation of the developer's right to contest or question by legal proceedings or otherwise, any determination of the Township Supervisors or the Township Engineer.

#### 906. REMEDIES TO EFFECT COMPLETION OF IMPROVEMENTS

- A. Enforcement of Security. In the event that any improvements which may be required have not been installed as provided in this Ordinance or in accord with the approved Final Plan, the Township Supervisors is hereby granted the power to enforce any corporate bond (or other security) by appropriate legal and equitable remedies.
- B. Completion by Township. If the proceeds of such bond or other security are insufficient to pay the cost of installing or making repairs or corrections to all the improvements covered by said security, the Township Supervisors may, at its option, install part of such improvements in all or part of the subdivision or land development and may institute appropriate legal or equitable action to recover the monies necessary to complete the remainder of the improvements.
- C. Proceeds for Installation of Improvements. All of the proceeds, whether resulting from the security or from any legal or equitable action brought against the developer, or both, shall be used solely for the installation of the improvements covered by such security, and not for any other Township purpose.

907. MAINTENANCE AGREEMENT

A. Maintenance Agreement Required

1. All Applicants proposing any subdivision or land development which provides for the dedication of improvements required by this Ordinance or any improvements or amenities which appear on the Plan shall be required to enter into a legally binding Maintenance Agreement with the Township prior to acceptance of dedication by the Township.
2. The dedication of any improvement shall not be accepted by the Township prior to the execution of a Maintenance Agreement and the delivery of the Maintenance Guarantee.

B. Terms of Maintenance Agreement

1. The Maintenance Agreement shall be in the manner and form approved by the Township Solicitor.
2. The Maintenance Agreement shall require the Applicant to make any repair or reconstruction of any improvement stipulated in the Maintenance Agreement which is specified by the Township Supervisors as necessary by reason of faulty construction, workmanship, or materials prior to acceptance of such improvement by the Township.
3. The Maintenance Agreement shall require the Applicant to maintain at his own cost all improvements stipulated in the Maintenance Agreement for a period of eighteen (18) months from the date of acceptance or dedication by the Township.
4. The Maintenance Agreement shall require the posting of financial security to secure structural integrity of said improvements as well as the functioning of said improvements in accordance with the design and specifications as depicted on the final plat for a term of eighteen (18) months from the date of acceptance of dedication.

C. Nothing herein shall be construed as obligating the Township to accept dedication of any roadway.

D. Public Utilities and Authorities. If water mains or sanitary sewer lines, or both, along with apparatus or facilities related thereto, are to be installed under the jurisdiction and pursuant to the rules and regulations of a public utility or municipal authority separate and distinct from the Township, financial security to assure proper completion and maintenance thereof shall be posted in accordance with the

regulations of the controlling public utility or municipal authority and shall not be included within the financial security as otherwise required by this Section.

908. MAINTENANCE GUARANTEE

- A. Security. The Maintenance Guarantee shall be secured by the credit of any of the following:
1. An irrevocable and unconditional letter of credit of a Federal or Commonwealth chartered lending institution.
  2. A restrictive or escrow account in a Federal or Commonwealth chartered lending institution.
  3. Such other financial security approved by the Township Supervisors (which approval shall not be unreasonably withheld) and executed by such sureties as are named in the current list of "Companies Holding Certificates of Authority as Acceptable Sureties on Federal Bonds and as Acceptable Reinsuring Companies" as published in Circular 570 (amended) by the Audit Staff, Bureau of Government Financial Operations, US Treasury Department.
- B. Terms. Such Maintenance Guarantee shall be in the form approved by the Township Solicitor, payable to the Township, to guarantee the maintenance and repair of the streets and other improvements in the subdivision for eighteen (18) months from the date of acceptance thereof by the Township.
- C. Amount. The amount of the Maintenance Guarantee shall be determined by the Township, shall not exceed fifteen percent (15%) of the actual cost of installation of such improvements.
- D. Release. After the expiration of eighteen (18) months from the date of acceptance of said improvements, the Township shall release said Maintenance Guarantee to the developer (or party posting said Maintenance Guarantee) if all improvements are in satisfactory condition.

**ARTICLE 10 - RECORDING OF FINAL PLAN**

1001. RECORDING OF FINAL PLAN

- A. Deadline. The Applicant shall record the Final Plan approved by the Township Supervisors in the Office of the Recorder of Deeds of the County within ninety (90) days of such final approval, unless an extension has been granted in writing by the Township Supervisors.
- B. Notification. Within fifteen (15) days of recording, the Applicant shall notify the Township Supervisors and Township Planning Commission in writing of the date of such recording and the plan book and page wherein such plan is recorded (a copy of the receipt of the recording is acceptable).
- C. Failure to Record. If the plan is not recorded within the required time period, the approval shall lapse and become void.

1002. RECORDING OF PLAN

The Record Plan shall be two (2) clear and legible blue or black line prints of the Approved Final Plan and shall be submitted to the County Recorder of Deeds (see Table 10-1).

1003. EFFECT OF RECORDING

- A. Official Map. After a subdivision or land development has been duly recorded, the streets, parks, and other public improvements shown thereon shall be considered to be a part of any Official Map of the County and Township without a Public Hearing.
- B. Improvements Private. Every street, park, or other improvement shown on a subdivision or land development plan that is recorded, as provided herein, shall be deemed to be a private street, park, or improvement until such time as:
  - 1. it has been offered for dedication to the Township and accepted, by resolution and recorded; or
  - 2. it has been condemned for use as a public street, park, or improvement.

C. Dedication of Improvements. Streets, parks, and other public improvements shown on a subdivision or land development plan to be recorded:

1. May be offered for dedication to the Township by formal notation thereof on the plan; or
2. The owner shall note on the plan that such improvements have not been offered for dedication to the Township.

**TABLE 10-1**

PLAN RECORDING REQUIREMENTS FOR THE SCHUYLKILL COUNTY RECORDER OF DEEDS		
- Final Plan Shall Be No Larger Than 24" x 36"		
- 2 Original Plans With The Following Conditions:		
	YES	NO
• Owner's Original Signature	X	
• Notary Public's Signature with Raised Seal	X	
• Sewage Enforcement Officer's Signature <sup>1</sup>		X
• Engineer's, Surveyor's - Seal Number <sup>2</sup> - Signature <sup>2</sup>		X X
• Township Planning Commission Approval	X	
• Township Supervisors Approval	X	
• County Planning Commission Approval	X	

1. Planning Module Required by Township

2. Required by Township



## ARTICLE 11 - DESIGN STANDARDS

### 1101. APPLICATION

- A. Standards to be Applied. The following design standards and requirements will be applied by the Township Planning Commission and the Township Supervisors in evaluating plans for proposed subdivisions.
- B. Minimum Provisions. The standards and requirements contained in Article 11 are intended as the minimum design standards for promotion of the public's health, safety, and general welfare. Whenever developments increase these minimum standards, the developer is assured of increased benefits to himself and to potential purchasers. The Township recommends increases above these minimum standards and favors such increases whenever possible.
- C. Municipal Regulations to Govern. Whenever another municipal regulation or ordinance imposes more restrictive standards and requirements than those contained herein, the more stringent shall control the design.
- D. Additional Improvements. Additional or higher type improvements may be required in specific cases where, in the opinion of the Township Planning Commission and the Township Supervisors, they are necessary to create conditions essential to the health, safety, morals, and general welfare of the citizens of the Township, to protect the environment of the Township, or to carry out the purposes of this Ordinance.
- E. Modifications and Exceptions
  - 1. If any mandatory provisions of these regulations are shown by the applicant to the satisfaction of the Township Supervisors to be unreasonable, to cause undue hardship, or that an alternate standard can provide equal or better results, the Township Supervisors may grant a modification to that provision. A modification may be granted provided that such modification will not be contrary to public interest and that the purpose and intent of this Ordinance is observed.
  - 2. Any request for modification shall be submitted in writing, citing the specific observations or standards from which relief is requested, and should be part of the preliminary or final plan submission.

3. It is not sufficient proof of hardship to show that greater profit would result if the modification were granted. Furthermore, hardship cannot be claimed by one who purchases with or without knowledge of restrictions; it must be from the application of this Ordinance; it must be suffered directly by the property in question; and evidence of a modification granted under similar circumstances shall not be considered.
4. In granting modifications, the Township Supervisors may impose such conditions that will, in its judgment, secure substantially the objectives of the standards or requirements so modified.
5. The Township shall keep a written record of all requests for modifications.
6. If a modification is granted, it shall be referenced in the Conditions of Approval of the plan and shall apply only to that plan.

## 1102. DESIGN STANDARDS

- A. Land Requirements. Land shall be suited to the purpose for which it is to be divided. In general, the Township shall take the following factors into consideration:
  1. Land subject to periodic flooding or other hazards to life, health, and/or property shall not be subdivided for residential purposes unless adequate safeguards against such hazards are provided by the plan.
  2. Areas within the parcel characterized by slopes in excess of fifteen percent (15%), rock formations, or other such features shall not be subdivided or developed for any purposes.
  3. Areas subject to subsidence, settling, or within five hundred feet (500') of any stripping holes shall not be subdivided for residential purposes unless a waiver of responsibility is clearly stated, supported by documentation on the plan and accepted by applicant.
- B. Natural and Historic Feature Preservation
  1. The Township Planning Commission and Township Supervisors may require that the design and development of subdivisions and land developments shall preserve, insofar as possible, natural, scenic, and historic features, which will add attractiveness by providing parks, adequate open space for recreation, light and air by proper distribution of population thereby creating conditions favorable to the health, safety, morals and general welfare of the citizens and for the harmonious development of the Township.

2. Some of these features are natural terrain and natural drainage, large trees or groves, watercourses and falls, historic areas and structures, scenic views and landmarks, and other community assets.

#### 1103. COMMUNITY FACILITIES AND COMPREHENSIVE PLAN REQUIREMENTS

The Township Supervisors will consider the adequacy of existing or proposed community facilities to serve the uses proposed in the subdivision. Where a proposed park, playground, school, or other public use shown in the Branch Township Comprehensive Plan is located in whole or in part in a subdivision, the Township Supervisors may require the provision or reservation of such area as may be deemed reasonable, provided that such provision or reservation is acceptable to the Township.

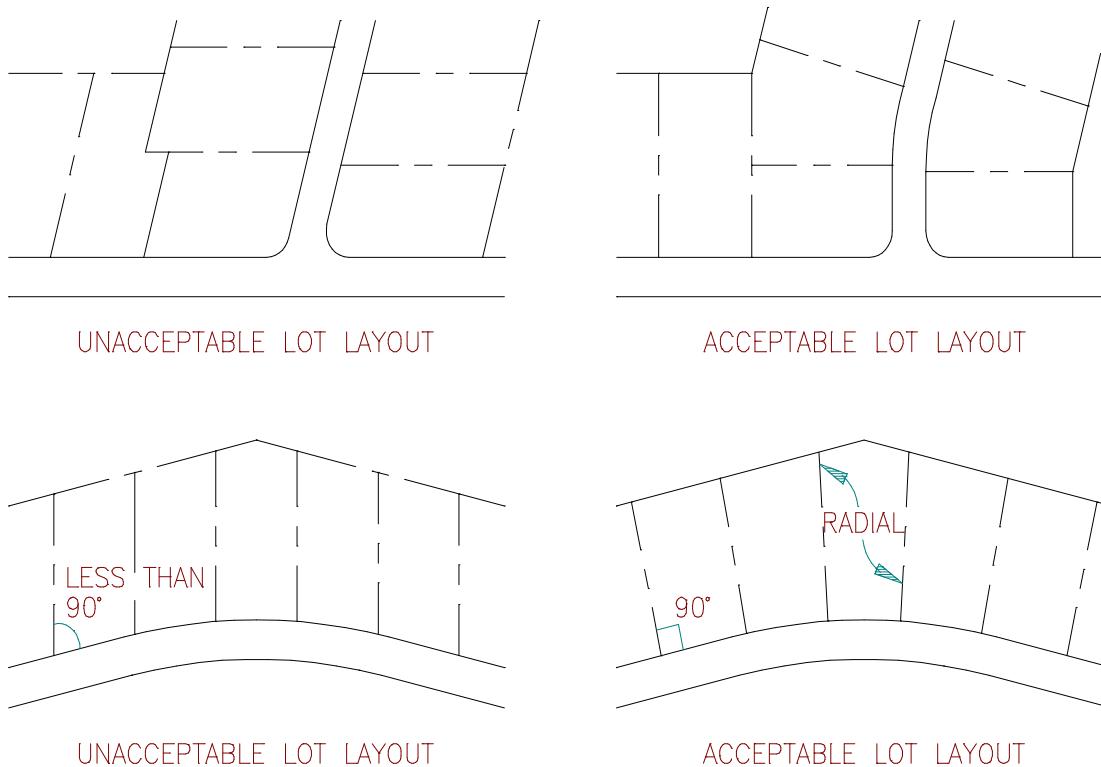
- A. Areas provided or reserved for such community facilities should be adequate to provide for building sites, landscaping, and off-street parking as appropriate to the use proposed.
- B. The layout of the proposed subdivision shall be in general conformity with the features or developments proposed in the Branch Township Comprehensive Plan.
- C. The use of the land in the subdivision or land development shall conform to the Branch Township Zoning Ordinance.
- D. A subdivision or land development and its street pattern shall be coordinated with existing nearby developments or neighborhoods so that the area as a whole may be developed harmoniously.

#### 1104. LOTS AND LOT SIZES

- A. All lots shall front on an existing or proposed public street or on a private street if such street conforms to the standards contained in this Ordinance and are approved as such by the Township Supervisors.

The width of required frontage for any particular lot is dictated by the Branch Township Zoning Ordinance. Any variation from the required width must be addressed by the Branch Township Zoning Hearing Board.

- B. Side lots lines shall be at right angles with straight street lines or radial to curved street lines.



**FIGURE 11-1**

- C. If remnants of land exist after subdividing, they shall be incorporated in existing or proposed lots, or dedicated to public use if acceptable to the Township Supervisors.
- D. Double frontage lots are prohibited, except where employed to prevent vehicular access to major traffic streets.
- E. Depth and width of parcels laid out or reserved for nonresidential use shall be sufficient to provide satisfactory space for off-street parking, loading and unloading, required setbacks, landscaping, etc.
- F. In order to avoid problems of jurisdiction, the lot lines, where feasible, shall follow Township boundary lines rather than cross them. In the event that lot lines cross municipal boundaries, the affected adjoining municipality will be offered to make comments concerning the development.

- G. In general, the depth of lots in residential subdivisions should not be less than one (1) nor more than three (3) times their width.
- H. A cluster form of development is a commonly used alternative to the typical lot layout. The Township Supervisors may permit the alternative design at their discretion.
- I. Lot dimensions, areas, yards and building set-back lines shall not be less than specified by the provisions of the zoning regulations and/or the provisions contained in this section.

#### 1105. LOT ACCESS

- A. Direct access from residential lots to arterial streets shall be avoided whenever possible. Where such direct access cannot be avoided, adequate turnaround space shall be provided behind the right-of-way line.
- B. A valid Highway Occupancy Permit issued by the Pennsylvania Department of Transportation must be displayed to prove that access to a state road or highway has been authorized. Driveways serving single family residences shall intersect streets at angles of no less than sixty (60) degrees. All other driveways or access roads shall intersect streets at right angles, where possible, and in no instance shall such intersection be less than seventy-five degrees (75°).
- C. The width of access roads or driveways shall be in accordance with the following:
  - 1. For all multi-family residential and non-residential subdivisions, access roads shall be no less than twenty-two feet (22') in width at the street line, and shall clearly be defined by the use of curbing.
  - 2. For single family residential subdivisions, individual driveways shall be not less than ten feet (10') in width and no greater than twenty feet (20') in width at the street line.
- D. In order to provide for safe and convenient ingress and egress points, access roads and driveway entrances shall be rounded at the following radius:
  - 1. For multi-family residential and all non-residential subdivisions, access road entrances shall be rounded at a minimum radius of ten feet (10').
  - 2. For single family residential subdivisions, driveway entrances shall be rounded at a minimum radius of five feet (5').

- E. The grades on access roads or driveways shall not exceed the following:
  - 1. Eight percent (8%) when access is to an arterial street.
  - 2. Twelve percent (12%) when access is to a collector or minor street.
- F. The minimum distance from the centerline of an access road or driveway, at its point of access to a street, to the centerline of the intersecting street shall not be less than the following (for single family residential subdivisions):
  - 1. One hundred fifty feet (150') if the intersecting street is an arterial street.
  - 2. One hundred feet (100') if either street is a collector street.
  - 3. Seventy-five feet (75') if both streets are minor streets.
- G. The minimum distance from the centerline of an access road or driveway, at its point of access to a street, to the centerline of the intersecting street shall not be less than the following (for multi-family residential, and all non-residential subdivisions):
  - 1. Three hundred feet (300') if either street is an arterial street.
  - 2. Two hundred feet (200') if either street is a collector street.
  - 3. One hundred fifty feet (150') if both streets are minor streets.
- H. All driveways will be designed to permit unimpeded drainage flows.

#### 1106. EASEMENTS

- A. Easements with a minimum width of ten feet (10') plus the width of any required pipe or other improvements shall be provided as necessary for utilities.
- B. To the fullest extent possible, easements shall be adjacent to rear or side lot lines.
- C. Where a subdivision is traversed by a watercourse, there shall be provided a drainage easement or right-of-way conforming substantially with the line of such watercourse and of such width as will be adequate to preserve natural drainage.
- D. A description of the easement shall be created and recorded in order to accommodate easements of an odd shape or through the interior of a parcel.

## 1107. BLOCK DESIGN STANDARDS

### A. Block Layout

1. The length, width and shape of blocks shall be determined with respect to the following:
  - a. The provision of adequate sites for the type of building being proposed.
  - b. The Branch Township Zoning Ordinance.
  - c. The existing topographical features.
  - d. The requirements for safe and convenient vehicular and pedestrian circulation.

### B. Block Length

1. Unless permitted by Township Supervisors, blocks in residential subdivisions shall generally be no less than five hundred feet (500') in length or no more than:
  - a. one thousand eight hundred feet (1800') in length in subdivisions using an average lot size of one (1) acre or larger, or
  - b. one thousand two hundred feet (1200') in length in subdivisions using an average lot size of less than one (1) acre.
2. In the design of blocks longer than one thousand feet (1000'), special consideration shall be given to the requirements of satisfactory fire protection.
3. Blocks along collector streets, where feasible, shall not be less than one thousand feet (1000') in length.
4. Pedestrian interior walks may be required where necessary to assist circulation or provide access to community facilities. Such crosswalks shall have a width of not less than ten feet (10') and a paved walk of not less than five feet (5').

### C. Block Depth

1. Block depth in residential subdivisions shall be sufficient to accommodate two (2) tiers of lots, except:
  - a. Where prevented by the size, topographical conditions, or other conditions inherent in the property, in which instance a single tier of lots may be approved by the Township Planning Commission.

D. Industrial Blocks

1. Blocks in industrial subdivisions may vary from the design elements as detailed above provided that adequate provision is made for traffic circulation, off-street parking, loading areas, and fire protection.

## 1108. STREET DESIGN STANDARDS

A. General Requirements

1. Proposed streets shall be properly related to such street plans or parts thereof as have been officially prepared and adopted by the Township and they should further conform to the road and highway plans of both the State and the County. Proposed streets shall be designed to provide adequate vehicular access to all lots or parcels and with due regard to existing topographic conditions, projected traffic volumes, and the possibility of future subdivision activity in the area.
2. The proposed street layout shall provide for the continuation or projection of existing streets in the surrounding area unless the Township Supervisors deems such extension undesirable for specific reasons of topography or design.
3. The street system of a proposed subdivision or land development shall be designed to create a hierarchy of street functions which includes collector and minor streets.
4. Streets shall be logically related to the topography to produce usable lots and reasonable grades.
5. The street system of a proposed subdivision or land development shall be designed to minimize street intersections and pedestrian and vehicular conflict points.



6. Proposed minor streets shall be designed to discourage through traffic and excessive speeds. However, the developer shall give adequate consideration to the provision for the extension and continuation of collector streets into and from adjacent properties.
7. Proposed streets shall be extended to provide access to adjoining property where necessary.
8. Adequate street rights-of-way shall be provided as necessary where lots in the proposal are large enough to permit resubdivision, or if a portion of the tract is not subdivided.
9. Where a subdivision abuts or contains an existing or proposed major traffic street, the Township Supervisors may require marginal access streets, rear service alleys, reverse frontage lots or such other treatment as will provide protection for abutting properties, reduction in the number of intersections with the major street, and separation of local and through traffic.
10. New half or partial streets will not be permitted, except where essential to reasonable subdivision of a tract in conformance with the other requirements and standards contained herein and where, in addition, satisfactory assurance for dedication of the remaining part of the street can be secured.
11. Where a subdivision abuts an existing street of inadequate width or alignment, the Township Supervisors may require the owner to dedicate sufficient land to widen the street or correct the alignment.
12. Private streets, which are not to be offered for dedication, shall be approved only if they conform to the street design and improvement standards as established in this Ordinance.
13. Wherever a tract to be subdivided borders an existing half or partial street, the other part of the street shall be plotted within such tract.
14. Dead-end streets shall be prohibited except as stubs to permit future street extension into adjoining tracts, or when designed as cul-de-sacs.
15. New reserve strips, including those controlling access to streets, shall be avoided.

#### 1109. STREET RIGHT-OF-WAY AND CARTWAY WIDTHS

- A. Street right-of-way and cartway (pavement) widths in proposed subdivisions shall

conform to the standards established in Table 11-1.

- B. The general standards established in Article 1109.A may be modified by the Township Supervisors upon the recommendation of the Township Engineer. Such modification may occur only after an analysis of proposed development densities, provisions for off-street parking, and projected volumes of traffic have been completed. The burden of proof for such modification shall be upon the developer to justify the adequacy of rights-of-way or cartway widths which are less than those established in Article 1109.A.

#### 1110. HORIZONTAL CURVES

- A. When the deflection of street centerlines is greater than five (5) degrees within five hundred feet (500'), an appropriate connection shall be made using horizontal curves.
- B. Horizontal curves, designed to produce the following minimum sight distances shall be used:
  - 1. Minor Streets – One hundred fifty feet (150').
  - 2. Collector Streets – Three hundred feet (300').
  - 3. Arterial Streets – Six hundred feet (600').
- C. Tangents, with a minimum length of one hundred feet (100'), shall be used between curves on both collector and arterial streets and between a curve and a street intersection where one of the intersecting streets is a collector or an arterial street.

#### 1111. STREET GRADES

- A. The minimum centerline grade on all streets shall be five tenths (0.5) percent.
- B. Unless approval is obtained from the Township Supervisors upon recommendation from the Township Engineer, the centerline grades shall not exceed the following:
  - 1. Minor Streets – Twelve percent (12%).
  - 2. Collector Streets – Eight percent (8%).
  - 3. Arterial Streets – Six percent (6%).
- C. Leveling areas, having a minimum length of seventy-five feet (75') as measured from the intersection of the centerlines, shall be provided at all intersections. The

maximum grade for such leveling area shall not exceed four percent (4%).

D. Design and Construction Standards Grading

1. In general, streets shall be graded, improved, and surfaced to the grades and dimensions shown on plans, profiles, and cross-sections submitted by the developer and approved by the Township Supervisors.
2. Right-of-Way Grading
  - a. The entire right-of-way shall be graded to the approved cross-section. All trees, stumps, and other material deemed unsuitable by the Township Engineer shall be removed. The excavation shall be backfilled and suitably compacted to the satisfaction of the Township Engineer or inspector.
  - b. The finished road surface, both tangent and curve, shall be crowned at two percent (2%) away from the centerline.
  - c. A proper super-elevation (banked curves) shall be provided on arterials and collectors when the centerline curve radii are less than one thousand two hundred feet (1200') and when required by the Township Engineer.
3. Grading Beyond Right-of-Way
  - a. Where the approved profile of the centerline requires excavation or fill to a depth exceeding six inches (6"), the subdivider or developer may be required to grade beyond the right-of-way line in order to provide continuous slope from the right-of-way line to the proposed elevation of the abutting property.
  - b. Such grading beyond the right-of-way shall maintain the original conditions of slope and contours except where storm water runoff designs dictate or warrant improvement or alteration of the original slope and contours.
  - c. Approved plans, either preliminary or final, showing proposed grading, shall be a covenant running with the land, unless altered by written permission from the Township Planning Commission in conjunction with the Schuylkill Conservation District.
  - d. In areas of earth excavation or earth fill, such grading shall be done to a maximum slope of one foot (1') vertical to two feet (2') horizontal.

4. Trench Excavation. All trenches excavated within the cartway of a public street or right-of-way shall be mechanically compacted to 97% Proctor Density with 2A Stone backfill acceptable to the Township Engineer.

E. Subgrade

1. The design and construction of the roadbed shall take into consideration the supporting capacities of the subgrade, with particular attention to those soils which are subject to frost heave.
2. Unsuitable soils shall be removed and replaced, drained, or otherwise stabilized to provide adequate support for the roadbed and anticipated loads.
3. Underdrains shall be used to provide adequate drainage in wet soil areas if required by the Township Engineer.
4. The applicant should indicate their subgrade on their pavement typical detail with reference to county soil survey and additional testing as necessary.

F. Subbase, Base, and Surface Course

1. As a minimum, pavement structure shall consist either of the following:
2. Typical street cross-sections are provided in Figures 11.2 a and b.
3. All materials, construction procedures and other specifications shall be in conformance with the latest edition of the Pennsylvania Department of Transportation Specifications, Publication 408.

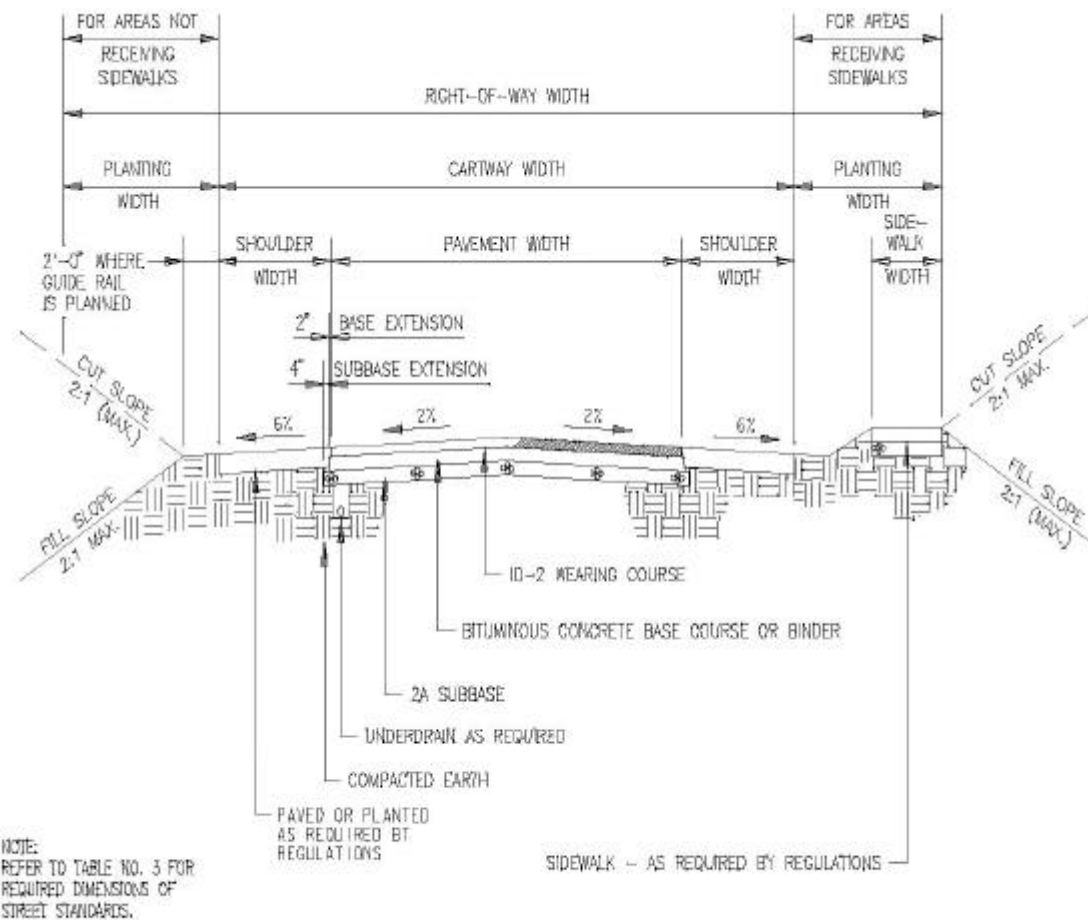
- G. Alternative Designs. Alternative roadbed designs may be prepared and will be considered. The alternate design must provide load capabilities equivalent to or higher than the capabilities of the designs set forth above. Alternate designs will be reviewed by the Township Engineer and will be subject to approval of the Township Supervisors.

- H. Extension of Existing Streets. The extension of existing streets which are presently constructed with a cartway different from the standards of this Ordinance shall be provided with a transition area, the design of which is subject to Commission approval.

- I. Street Provisions for Future Developments. Where appropriate, areas shall be reserved for future street usage in conjunction with the development of adjacent

tracts. Areas reserved for future street usage will not be required to be improved; however, these areas shall be reserved for street improvements to be provided by the developer of the adjacent tract.

Wherever there exists a dedicated or platted area reserved for future street usage along the boundary of a tract being developed, the adjacent street shall be extended into the proposed project provided this use is not adverse to the man-made or natural features of the site.



**Figure 11-2a**

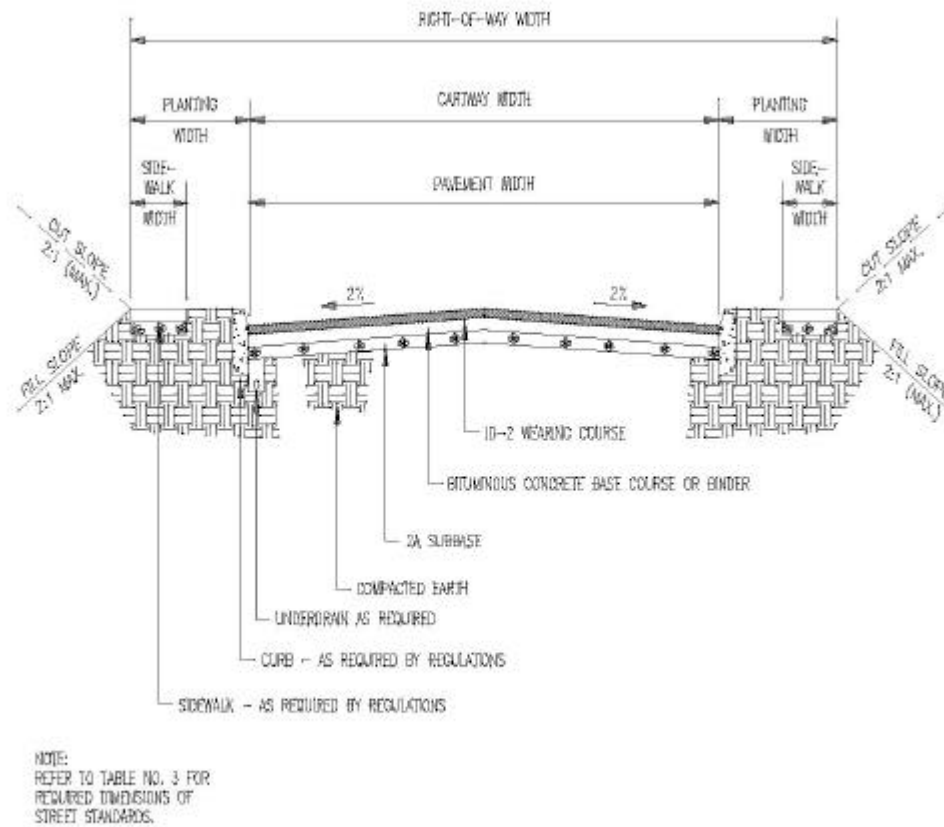
- TYPE A 1-1/2" ID-2 wearing course on  
3" Bituminous binder course on a 6" compacted subbase
- TYPE B 1-1/2" wearing course on  
4" Bituminous concrete base course on a 6" compacted  
subbase

**BRANCH TOWNSHIP SUBDIVISION REGULATIONS  
MINIMUM STREET CONSTRUCTION STANDARDS**

	FOR SUBDIVISION STREETS SERVING 100 LOTS AND LESS		FOR SUBDIVISION STREETS SERVING 101 LOTS TO AND INCLUDING 250 LOTS		FOR SUBDIVISION STREETS SERVING 251 LOTS AND MORE	
	WITH CURBS (a)	WITHOUT CURBS	WITH CURBS (a)	WITHOUT CURBS	WITH CURBS (a)	WITHOUT CURBS
Right-of-Way Width	50'	50'	50'	50'	PREVIOUSLY LISTED STANDARDS FOR STREETS SERVING 101 LOTS TO AND INCLUDING 250 LOTS SHALL APPLY, BUT FINAL STANDARDS SHALL BE DETERMINED BY THE PLANNING AND ZONING COMMISSION UPON ON-SITE INVESTIGATION	
Cartway Width	36'	36'	36'	36'		
Pavement Width	36'	22'	36'	24'		
Shoulder Width Each Side		4' paved 4' planting		4' paved 4' planting		
Sidewalk Width – When Required (b)	5'	5'	5'	5'		
Planting Width Each Side	8.5'	8.5'	8.5'	8.5'		
Minimum Radius Horizontal Curves (c)	100'	100'	300'	300'		
Maximum Grade – Percent Slope (d)	10	10	8	8		
Minimum Sight Distance (e)	See Article 1110.B	See Article 1110.B	See Article 1110.B	See Article 1110.B		
ID-2 Wearing Course (f)	1-1/2"	1-1/2"	1-1/2"	1-1/2"		
ID-2 Binder Course (f)	3"	3"	---	---		
BCBC	---	---	4"	4"		
2A Stone Subbase (f)	6"	6"	6"	6"		
2A Stone Shoulder(f)		6"		6"		

- (a) When curbs are required, they shall be constructed in accordance with the latest edition of PENNDOT Form 408.
  - (b) When sidewalks are required, they shall be constructed of concrete, a minimum of 4 inches in depth with WWF (welded wire fabric), on a 4 inch crushed aggregate base.
  - (c) Whenever street centerlines are deflected in excess of five degrees, connection shall be made by horizontal curves. A tangent shall be required between curves.
  - (d) To provide for adequate drainage, the minimum grade shall not be less than one-half of one percent (0.5%).
  - (e) Vertical curves shall be used at changes of grade exceeding one percent and shall be designed in relation to the extent of grade change and to provide the minimum sight distance listed above.
  - (f) All thickness specifications are for compacted materials.
- NOTE: Refer to typical cross-sections Figures 11.2a and 11.2b for standard street cross-sections related to the aforementioned dimensions.

**Table No. 11-1**



**Figure 11-2b**

**1112. VERTICAL CURVES**

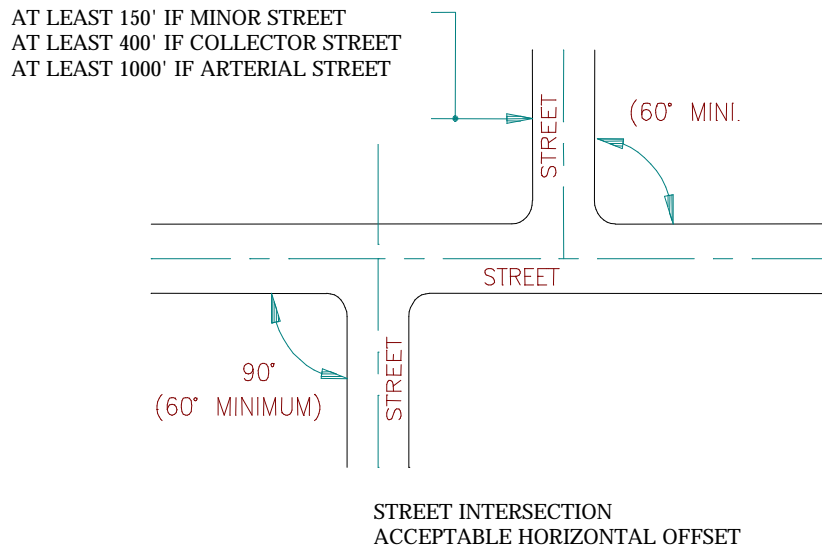
- A. When changes in grade in excess of one percent (1%) occur, vertical curves shall be used.
- B. Vertical curves shall be designed to conform to the following minimum sight distances:
  - 1. Minor Streets – One hundred fifty feet (150').
  - 2. Collector Streets – Three hundred feet (300').



3. Arterial Streets – Six hundred feet (600').
- C. The developer shall provide all computations to verify that the minimum sight distance is achieved in both horizontal and vertical geometry for all proposed streets.

#### 1113. STREET INTERSECTIONS

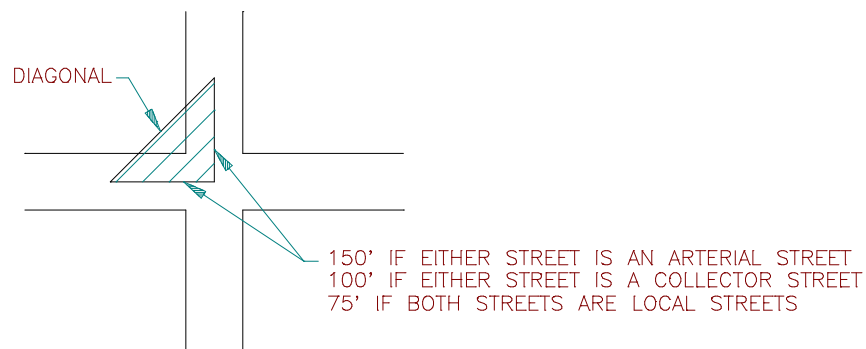
- A. Whenever possible, streets shall intersect at right angles. When minor streets intersect with collector or arterial streets, the angle of intersection at the street centerlines shall in no case be less than seventy-five (75) degrees. No two streets shall intersect with an angle of intersection at the centerlines of less than sixty (60) degrees.
- B. Multiple intersections, which involve the intersection of more than two streets, shall be prohibited.
- C. When two streets intersect a third street from opposite sides, they shall either intersect with a common centerline or their centerlines shall be offset in accordance with the following standards (see Figure 11-3):
1. When all three streets involved are minor streets, the two streets shall be separated by a minimum distance of one hundred fifty feet (150') between centerlines as measured along the centerline of the street being intersected.
  2. When one or more of the streets involved is a collector street, the two streets shall be separated by a minimum distance of four hundred feet (400') between centerlines as measured along the centerline of the street being intersected.
  3. When one or more of the streets involved is an arterial street, the two streets shall be separated by a minimum distance of one thousand feet (1000') between centerline as measured along the centerline of the street being intersected.



**Figure 11-3**

- D. Curbs at street intersections shall be rounded by an arc with a minimum radius as follows:
1. For intersection involving only minor streets – twenty feet (20').
  2. For intersection involving a collector street – thirty feet (30').
  3. For intersections involving an arterial street – forty feet (40').
- E. At intersections, the right-of-way of street lines shall be parallel to the curb arcs.
- F. Clear Sight Triangles
1. Clear sight triangles shall be provided at all street intersections. Within such triangles, nothing shall be erected, placed, planted, or allowed to grow in such a manner as to materially impede the vision between a height of two and one-half feet (2½') and ten feet (10') above the centerline grades of the intersecting streets in the area bound by the street lines of such corner lots and a line joining points along said street lines.
  2. When a portion of the line of such sight triangles occurs within the proposed building setback line, such portion shall be shown on the Final Plan of the subdivision, and shall be considered as a building setback line.
  3. Such triangular area shall be bounded by the intersecting street centerlines and a diagonal connecting two points. These points are a distance from each end of the centerline of each street of (see Figure 11-4):

- a. One hundred and fifty feet (150') from the intersection of such street centerlines if either street is an arterial street.
- b. One hundred feet (100') from the intersection of such street centerlines if either street is a collector street.
- c. Seventy-five feet (75') from the intersection of such street centerlines if both streets are minor streets.



**Figure 11-3b**

- G. Streets entering opposite sides of another street shall be laid out either directly opposite one another or with a minimum offset of one hundred fifty feet (150') between their centerlines (see Figure 11-b).
- H. Where a subdivision abuts or contains an existing street of inadequate right-of-way width, additional right-of-way width in conformance with Table 11-1 will be required.
- I. At street intersections, the property line shall be rounded by arcs with radii of not less than fifteen feet (15'). For streets other than local streets, the Township Supervisors may require a larger radius (see Figure 11-4)

<u>Type of Street</u>	<u>Minimum Radius of Arc At Intersection of Pavement Edge or Curb Line (in Feet)</u>	<u>Minimum Radius of Arc At Intersection of Right-of-Way (in Feet)</u>
Arterial	40 (or more as may be required)	20 (or more as may be required)

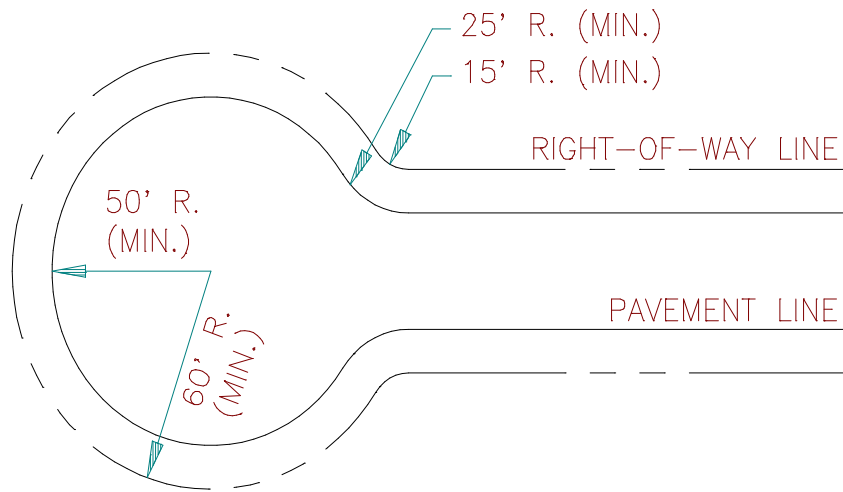
Major Collector	30 (or more as may be required)	Concentric with Edge of Road
Minor Collector	20 (or more as may be required)	Concentric with Edge of Road
Local	15 (or more as may be required)	Concentric with Edge of Road



**Figure 11-4**

#### 1114. CUL-DE-SACS

- A. Dead end streets are prohibited unless they are designed as cul-de-sac streets or designed to provide future access to adjacent property.
- B. When dead end streets are constructed to provide future access to adjacent property or because of authorized phase development, and when such street is open to traffic and exceeds two hundred feet (200') in length, the dead end street shall be provided with a temporary, all-weather turnaround. The turnaround shall be completely within the boundaries of the subdivision and the use of the turnaround shall be guaranteed to the public until such time as the street is extended.
- C. Cul-de-sac streets, permanently designed as such, shall be limited in length to a maximum of eight hundred feet (800'). Such cul-de-sac streets shall not provide access to more than twenty (20) dwelling units.
- D. The closed end of all cul-de-sac streets, whether permanently or temporarily designed, shall be provided with a fully paved turnaround.
- E. Unless future extension is clearly impractical or undesirable, a turnaround right-of-way of the same width as the street shall be carried to the property line in such a way as to permit future extension of the street into the adjoining tract.
  - 1. The minimum radius to the curb line or edge of pavement shall be fifty feet (50') and the minimum right-of-way radius shall be sixty feet (60'). Parking will not be permitted on the turnaround.
  - 2. The circular right-of-way of the cul-de-sac shall be connected to the approach right-of-way by an arc having a radius of not less than fifteen feet (15'). The circular paving of the cul-de-sac shall be connected to the approach paving by an arc having a radius of not less than twenty-five feet (25') (see Figure 11-5). Other turnaround designs must be approved by the Township Supervisors.



**Figure 11-5**

- F. The centerline grade on a cul-de-sac street shall not exceed twelve percent (12%), and the grade of the diameter of the turnaround shall not exceed five percent (5%).

#### 1115. HALF STREETS

- A. Half streets at the perimeter of a new subdivision are prohibited.
- B. The subdivider is responsible for providing the entire required right-of-way, or as much thereof as possible, within his property, along all existing streets, which traverse or abut the property.

#### 1116. STREET NAMES

- A. Proposed streets, which are in alignment with others already existing and named, shall bear the names of such existing streets.
- B. The street name of a proposed street shall not be duplicated by an existing street name in the Township.
- C. The Township Supervisors shall approve all proposed street names.

1117. ACCESS DRIVES AND DRIVEWAYS

- A. Access Drives. Access drives shall be constructed to conform to all requirements of this Ordinance for local streets for less than 10 lots, except that no right-of-way must be provided and Section 1117 B, C, D and E shall apply.
- B. Access. Access drives and driveways shall not be permitted to have direct access to state highways unless authorized by the Pennsylvania Department of Transportation through issuance of a highway occupancy permit.
- C. Location. The minimum distance between an access drive or driveway to a street shall be as illustrated in Table 11-2:

TYPE OF SUBDIVISION OR LAND DEVELOPMENT	DISTANCE BETWEEN CENTERLINES OF ACCESS DRIVE OR DRIVEWAY AND NEAREST INTERSECTING ROAD BY TYPE OF INTERSECTING ROAD		
	Arterial	Collector	Minor
Residential	150 ft.	100 ft.	75 ft.
Nonresidential or Mixed	300 ft.	200 ft.	150 ft.

Table 11-2

- D. Sightlines at Intersections of Driveways or Access Drives with Streets
  - 1. A triangular area as defined in Section 1117 D.3 shall be graded and free of sight obstructions so that vision between a height of two and one half feet (2-1/2') to ten feet (10') above the centerline grades of the intersecting driveway, accessway, or streets is not obscured.
  - 2. By means of deed restriction, lease restriction, or plan amendment (whichever method is applicable), vegetation shall not be planted or allowed to grow in such a manner so as to obscure vision between a height of from two and one half (2-1/2') to ten (10') feet above the centerline grades of the intersecting driveway, accessway, or streets within the triangular area defined in Section 1117 D.3.
  - 3. Such triangular area shall be bounded by the intersecting driveway, accessway, or street centerlines and a diagonal connecting two points, one which is at each end of the centerline of each driveway, accessway, or street

thirty feet (30') from the intersection of such centerline.

- E. Grades. Grades of access drives or driveways shall not exceed fourteen percent (14%); however, the initial twenty feet (20') from the edge of the cartway shall not exceed five percent (5%).
- F. Street Drainage. The developer shall make adequate provisions to maintain uninterrupted parallel drainage along a public street where intersected by an access drive or driveway.

NOTES:

1. Additional right-of-way and cartway widths may be required by the Township for the purpose of promoting the public safety and convenience and for providing for proposed traffic volumes.
2. Curbs shall be required in all residential subdivisions with an average density of three (3) dwelling units per acre.
  - a. When curbs are used on Minor Streets, one (1), eight-foot (8') parking lane is also required.
  - b. When curbs are used on Collector Streets, two (2), eight-foot (8') parking lanes are required.
  - c. In lieu of the required parking lanes, the subdivider may provide, at his option, an equivalent number of off-street parking spaces.
3. Curbs shall be required in all industrial and commercial subdivisions but may be deleted at the discretion of the Township Supervisors.
4. Curbs shall be constructed in accordance with standards set forth by PENNDOT. The construction of an alternative mountable or rolled concrete curb design may be permitted at the discretion of the Township Supervisors.

1118. WATER SUPPLY

- A. The subdivision shall be provided with a complete water distribution system connected to the public water supply, including a connection for each lot.
- B. All water lines shall be located between centerline of roadway and curb line opposite other utilities such as gas, electric, telephone, and communication.



- C. The distribution system shall be designed to furnish an adequate supply of water to each lot, with adequate main sizes and fire hydrant locations to meet the specifications of the Branch Township Fire Chief and applicable water authority. A letter from the appropriate utility company approving the system design shall be submitted with the Final Plan.
- D. If water is to be provided by means other than by private wells owned and maintained by the individual owners of lots within the subdivision or development, applicants shall present evidence to the governing body or planning agency, as the case may be, that the subdivision or development is to be supplied by a certificated public authority, a bona fide cooperative association of lot owners, or by a municipal corporation, authority or utility. A copy of a Certificate of Public Convenience from the Pennsylvania Public Utility Commission or an application for such certificate, a cooperative agreement or a commitment or agreement to serve the area in question, whichever is appropriate, shall be acceptable evidence.

#### 1119. SANITARY SEWER SYSTEM

- A. Provision of Sewer System. Each property located in areas designated for public sanitary sewage facilities shall connect with an approved public or community sewer system in accordance with the Township Official Sewage Facilities Act 537. Where the public sanitary sewer line system, in the opinion of the Township, is reasonably accessible, sanitary sewers shall be installed to adequately serve all lots with connections to the public system. Where lots cannot be served by the extension of an existing public sanitary sewer, the subdivider shall obtain approval of lot sizes as provided in the Township Zoning Ordinance. In addition, any on-lot septic system or community disposal system, shall be approved by the Township Sewage Enforcement Officer in accordance with the PA Code Title 25, Chapters 71, 72, & 73.
- B. Capped Sewers. Where a municipality has a plan for extending the public sanitary sewer system into an area that is being subdivided, and it is reasonably expected that the area will be served by the public system within a period of five (5) years, capped sewers shall be installed to adequately serve all lots in the proposed subdivision as well as provisions set forth in Section 1119.A above.
- C. Sanitary sewers shall be installed and shall be located as nearly to the centerline of any street right-of-way as is reasonably possible and all sanitary sewer lines shall provide, to every lot, service connections to the property line, and said service connections being properly capped.
- D. Sanitary sewer manholes shall be installed at all changes in grade, at all changes in

direction and in no instance shall manholes be any greater than four hundred feet (400') apart.

- E. Combined sanitary and storm sewer systems are prohibited under the provisions of these regulations.
- F. All sewage collection systems shall conform in all respects to the minimum requirements of the Pennsylvania Department of Environmental Protection, and all ordinances, rules, and regulations of the Township.
- G. Whenever approval by the Pennsylvania Department of Environmental Protection is required for the sewage collection system for a proposed subdivision, the Township shall require that a copy of such approval certification shall be submitted prior to recording of a plan.
- H. When a subdivision is increasing demand onto an existing sewer system or connecting to an existing sewer system, the Planning Modules shall be provided to the Township before Final Approval.
- I. If the subdivision has an existing on-lot sewer system or a proposed on-lot system, the Sewage Enforcement Officer (SEO) approval needs to be in a report form with a copy of the signed Planning Module(s) and Site Investigation and Percolation Test Report.

#### 1. Soil Percolation Test Requirements

- a. Soil percolation tests shall be performed for all subdivisions in which buildings, at the time of construction, will not be connected to an operating public or community sanitary sewage disposal system.
- b. Soil percolation tests shall be made in accordance with the procedures required by the Pennsylvania Department of Environmental Protection and the Township Sewage Enforcement Officer.
- c. Soil percolation tests shall be performed at the site of the proposed on-site sanitary sewage disposal facilities. At least two (2) test shall be performed on each lot within the subdivision. If the soil percolation tests are performed at a site which the township believes is not a feasible location for an on-site system, given the proposed lot and street layout, topography and intended use of the lot, the township may require soil percolation tests to be performed at a location which it deems feasible.

- d. The results of the soil percolation tests shall be analyzed by the township and by the Pennsylvania Department of Environmental Protection, as necessary, and the final plan lot layout shall be based on this analysis. If the analysis of the soil percolation test results reveal that the soil is unsuitable, the township may require that the lot size(s) originally proposed, be increased in accordance with the test results.

## 1120. STORMWATER MANAGEMENT

A. The goals for stormwater management in Branch Township are:

1. To protect the health, safety, and general welfare of the Township residents by protecting the surface and groundwater of the Township through effective stormwater management and control of sedimentation and erosion, as provided in this Ordinance.
2. To limit the negative impacts of development that occur with inadequately managed stormwater. These negative impacts include but are not limited to, altered hydrology, lowering of the groundwater table, physical stream impacts, and biological impacts to nonpoint source pollutants.

B. Purpose

The purpose of stormwater management in Branch Township is:

1. To maintain the pre-development water balance in the watersheds in the Township, and to work to restore natural hydrologic regimes wherever possible throughout the stream system;
2. To maintain the pre-development volume of groundwater recharge;
3. To prevent significant increase in surface runoff volumes, pre-development to post-development, thereby mitigating flooding downstream in the watershed, enlarging floodplains, eroding stream banks, and creating other flood-related health-welfare-property losses, and to work to reduce runoff volumes to natural levels;
4. To maintain pre-development peak rates of discharge, site-by-site, so as not to worsen flooding adjacent to downstream sites, and to work to restore peak runoff rates to natural levels;
5. To minimize nonpoint source pollutant loading to ground and surface waters generally throughout Branch Township;
6. To minimize impacts on stream temperatures;
7. To minimize aesthetic impacts;

8. To manage stormwater through approaches and practices that rely on natural process to the greatest extent possible and require a minimum of structures.

C. Applicability

The provisions of this Section shall apply to all subdivisions and land developments as defined by this Ordinance, or as otherwise required by the Township;

D. General Provisions

The following provision shall be followed and incorporated into the development review and construction process:

1. The choice and design of stormwater management systems used to meet the requirements of this Section shall be based on the system types and specifications set forth in the Pennsylvania Handbook of Best Management Practices for Developing Areas, published by the Commonwealth of Pennsylvania. The use of other control methods, that meet the criteria established in this Section, may be permitted if approved by the Township Engineer. Various combinations of methods should be tailored to suit the particular requirements for the type of development and the local site conditions.
2. The choice and design of stormwater management systems are to be developed through a procedure that selects and locates Best Management Practices, viewing components in the following priority:
  - a. Seeking to control runoff at its source through infiltration;
  - b. Improving the quality of the stormwater during conveyance;
  - c. Providing for detention.
3. The selection of a competent and creative design engineer by the applicant clearly is critical to the success of an approach that emphasizes the use of Best Management Practices. In order to achieve the standards and construction and maintenance cost reductions which are intended in this Ordinance, additional time and money is required in the process in preliminary engineering and design. Review and approval of the stormwater management plan will be heavily dependent on the technical review by the Township Engineer and compliance with this Ordinance.
4. The applicant or applicant's agent shall design, construct and/or install drainage facilities to prevent soil erosion, damage and siltation, and to manage stormwater in order to prevent the impairment of public safety or physical damage due to concentration of the stormwater runoff onto adjacent properties in accordance with this Ordinance and applicable rules and regulations of the Pennsylvania Department of Environmental Protection, and

the Schuylkill County Conservation District. All land areas shall be graded to secure proper drainage away from buildings, on-site sewage disposal systems, and to prevent the uncontrolled collection of stormwater in pools. The system shall be designed to collect and recharge water to the greatest extent possible.

5. The rate of stormwater runoff from any proposed subdivision or land development shall not exceed the rate of runoff prior to development. Requirements for design of stormwater management systems that incorporate groundwater recharge as an essential element in order to control quantity of discharge is outlined in this Ordinance. The distribution of drainage discharge from the developed properties shall replicate that of before development conditions to the maximum extent possible. The methodology and facilities used shall be based on the anticipated flows and conditions of each particular site.
6. The stormwater management plan for each subdivision or land development proposal shall take into account and provide for the peak rate and volume flows of other areas in the watershed to ensure that cumulative problems are not increased as a result of flows from the proposed project. This analysis shall also explore possibilities to share stormwater management facilities with other areas in the watershed, in which case, consultation with the Township shall be required prior to design.
7. Recharge facilities, detention facilities, storm sewers, culverts, bridges and related drainage installation shall be designed and constructed to meet the following purposes:
  - a. To permit unimpeded flow of natural watercourses. Such flow may be redirected as required, subject to the approval of the Pennsylvania Department of Environmental Protection;
  - b. To insure adequate drainage of all low points as may be related to streets;
  - c. To intercept stormwater runoff along streets at intervals reasonably related to the extent and grade of the area drained to prevent flow of stormwater across intersections during the design storm;
  - d. To insure adequate and unimpeded flow of stormwater under driveways in, near, or across natural watercourses or drainage swales. Properly sized pipes or other conduits shall be provided as necessary;
  - e. To prevent excessive flow on or across streets, sidewalks, drives, parking areas, and any other paved surface or accessway;
  - f. To lead stormwater away from springs.

8. To this end, the storm drainage system serving the street shall be designed to collect water at any point where three (3) to five (5) cubic feet per second is accumulated, and the bottom of all vertical grades, and immediately upgrade of all street intersections. The system shall discharge any collected water which is not recharged into the nearest practical natural drainage channel or stormwater system.
9. All natural streams, channels, swales, drainage systems, and/or areas of concentration of surface water shall be maintained in their existing condition, unless alteration is approved by the Township. In any event, all encroachment activities shall comply with Chapter 105 of the Commonwealth of Pennsylvania's Department of Environmental Protection Dam Safety and Waterway Management Rules and Regulations.
10. Man-made structures shall be kept to a minimum and bridges, culverts, or rip-rap shall be constructed to maintain natural characteristics of the stream and shall meet the approval of the Township.
11. For the purpose of this subsection, streams and intermittent streams are defined as those watercourses depicted on the Township Zoning Map, the USGS Quadrangle maps of the area, and/or determined as such pursuant to an on-site survey by the Township or their representatives.
12. Retention/detention basins shall be designed to utilize the natural contours of the land. When such design is impracticable, the construction of the basin design shall utilize slopes as shallow as possible to blend the structures into the existing terrain. The use of multiple retention/detention facilities, which are smaller and less intrusive on the site, is encouraged to meet the requirements of this Section.
13. All areas containing lakes, ponds, wetlands and watercourses shall be considered to be reserved for permanent open space. Any alteration, development, filling, piping, or diverting of such water resources shall be in strict compliance with the provision of the Zoning Ordinance, especially those pertaining to the Floodplain Region, and all prevailing rules and regulations of federal and State agencies. The Township recognizes the use of wetlands as potential components of stormwater management facilities and encourages such innovative use if assurances are met that conservation measures are adequate and that all federal and State requirements are satisfied.
14. The Township may require that a landowner or development provide reasonable corrective measures to alleviate any existing off-site drainage problem which may be affected by the proposed subdivision and/or land development. It shall be the responsibility of the landowner or developer to obtain all drainage easements on, over, or through other properties, and the

Township, its agents, workmen, and employees shall be indemnified and held harmless from any liability.

15. Any water originating from non-natural sources, such as swimming pools, air conditioning units, sump pumps, roof drains, or other similar flow, shall be properly discharged into a recharge facility or natural watercourses on the property or connected to an existing or proposed storm drainage system as approved by the Township. Polluting matter from such sources may not be deposited into natural watercourses or storm drains.
16. Any water originating from non-natural sources, as referenced above, shall not be discharged onto any street or other public right-of-way used for pedestrian or vehicular access.
17. 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 in the Schuylkill County Soil Survey) 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 not less than eighteen (18) inches below the slab or foundation field of the herringbone or gridiron configuration in course, 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 slopes to the gravel-filled trenches.
18. To mitigate the potential polluting of surface and ground waters by pollutants such as salt, petroleum products, and anti-freeze flowing from paved parking lots, pre-treatment of the runoff shall be required. The extent of the treatment shall be set by the Township Engineer and will be determined by such factors as the area of the parking lot and the course of the runoff as it is recharged or flows into natural waterways.

E. General Requirements

1. A site drainage plan shall be prepared for the proposed subdivision tract which illustrates the following information:
  - a. The mapping of the watershed area or areas in which the proposed subdivision is located;
  - b. Calculations of runoff for all points of runoff concentration;
  - c. The complete drainage system for the subdivision including the identification of all existing drainage features which will be incorporated into the design. If the subdivision is to be developed in

phases, a general drainage plan for the entire subdivision shall be submitted with the first phase and appropriate development phases for the drainage system shall be indicated.

2. The existing points of natural drainage discharge onto adjacent property shall not be altered without the written agreement of the affected landowners.
3. Stormwater runoff or natural drainage water shall not be diverted so as to overload existing drainage systems, or create flooding or the need for additional drainage structures on other private properties or public lands, without approved provisions being made by the developer for properly handling such conditions.
4. Facilities for storm drainage should be designed to handle the anticipated peak discharge from the property being subdivided as well as to handle the anticipated increase in runoff that will occur when all the property at a higher elevation in the same watershed area is fully developed.
5. Where a watercourse runs across or through a subdivision, a drainage easement, which conforms with the line of such watercourse, shall be provided at such a width as will be adequate to preserve the unimpeded flow of natural drainage.
6. All drainage structures that are located on the rights-of-way of State highways shall be approved by the Pennsylvania Department of Transportation and a letter of approval from that office shall be directed to the Township.
7. All streets shall be designed so that surface water is discharged from their rights-of-way. The slope of the crown on proposed streets shall be 2 %.

F. Calculation Methodology

1. Any stormwater runoff calculations involving drainage areas greater than 20 acres, including on- and off-site areas, shall use any generally accepted calculation technique that is based on the SCS Soil-Cover Complex method.
2. The Township Engineer may recommend approval for the use of the Rational Method to estimate peak discharges from drainage areas that contain up to 100 acres.
3. The design of any stormwater detention facility intended to meet the performance standards of this Ordinance shall be verified by routing the design storm hydrograph through these facilities using the Multi-Stage Routing Method or approved Routing Method. For drainage areas greater



than twenty (20) acres in size, the design storm hydrograph shall be computed using a calculation method that produces a full hydrograph. The Township Engineer may recommend approval for the use of any generally accepted full hydrograph approximation technique for drainage areas that contain less than twenty (20) acres. Any full hydrograph approximation technique shall use a total runoff volume that is consistent with the volume from a method that produces a full hydrograph.

4. All calculations consistent with this Ordinance using the Soil-Cover Complex method shall use the appropriate design rainfall depths for the various return period design storms (design storm regions with uniform rainfall are shown on Figure I-1 in Appendix I of this Ordinance). If a hydrologic computer model such as PSRM or HEC-1 is used for stormwater runoff calculations, then the minimum duration of rainfall shall be six (6) hours.
5. All calculations using the Rational Method shall use rainfall intensities consistent with appropriate times of concentration for overland flow and return periods from the Soil Conservation Service design charts for the area. Times of concentration for overland flow shall be calculated using the methodology presented in Chapter 3 of *Urban Hydrology for Small Watersheds*, SCS, TR-55 (as amended or replaced from time to time by SCS). Times of concentration for channel and pipe flow shall be computed using Manning's equation.

G. Stormwater Management Performance Standards. Peak post-development stormwater flow rates shall be limited using the most restrictive of the following criteria:

1. Post-development peak flows shall not exceed pre-development peak flows for 2, 10, 25, and 50-year return period design storms.
2. Where the Township Engineer has identified downstream flow constrictions, the Township may require post-development flows be reduced to match the capacity of the downstream constrictions.

H. Design Criteria for Stormwater Management Facilities

1. Any stormwater management facility required or regulated by this Ordinance shall be designed to meet the performance standards presented in Section 1120 of this Ordinance.
2. Any stormwater management facility required or regulated by this Ordinance shall be designed to provide a minimum one foot (1.0') of freeboard above the maximum 100-year water surface elevation for post-development conditions.

All emergency spillways are to be designated to handle a 100-year storm. Should any stormwater management facilities qualify as a dam under PADEP Chapter 105, the facility shall be designed in accordance with Chapter 105 and meet the regulations of Chapter 105 concerning dam safety.

- I. Hydraulic Capacity. Any hydraulic capacity analysis conducted in accordance with this Ordinance shall use the following criteria to determine if adequate hydraulic capacity exists:
  1. Open channels must be able to convey post-development runoff from a 10-year design storm within their banks at velocities that would not erode the channel bed or banks. Acceptable velocities shall be based on criteria included in the PADEP *Soil Erosion and Sedimentation Control Manual* (as amended or replaced from time to time by PADEP) and presented in Table I-3 in Appendix I of this Ordinance.
  2. Open channels must be able to convey post-development runoff from a 10-year design storm within their banks with a minimum half foot (0.5') freeboard and not create a hazard to any persons or property.
  3. Roadway crossings, including pipes, bridges, storm sewers, or any other drainage conveyance facility, must be able to convey, without damage to the drainage structure or roadway, runoff from the 25-year design storm with a minimum one foot (1.0') of freeboard measured below the lowest point along the top of the roadway. Roadway crossings located within designated floodplain areas must be able to convey runoff from a 100-year design storm with a minimum one foot (1.0') of freeboard measured below the lowest point along the top of the roadway. Any facilities that constitute stream enclosures, as described in PADEP Chapter 105 regulations (as amended or replaced from time to time by PADEP), shall be designed in accordance with Chapter 105 and will require a permit from PADEP. Any facility located within PENNDOT right-of-way must meet PENNDOT minimum design standards and permit submission requirements.
  4. Storm sewers must be able to convey post-development runoff from a 25-year design storm without surcharging inlets.
  5. Storm sewer inlet spacing and road cross-section design must ensure that post-development runoff resulting from a 10-year design storm does not flood more than one half of a driving or parking lane.
- H. Runoff Curve Numbers (CN) for both existing and proposed conditions to be used in the soil cover complex method shall be obtained from Table I-2 in Appendix I of this Ordinance.

- I. Runoff coefficients (C) for both existing and proposed conditions for use in the Rational Method shall be obtained from Table I-1 in Appendix I of this Ordinance.
- J. Where uniform flow is anticipated, the Manning equation shall be used for hydraulic computations and to determine the capacity of drainage ways, channels, streams, swales, pipes, and storm sewers. Where non-uniform flow is anticipated, the hydraulic effects of "backwater" caused by hydraulic obstructions (e.g. culverts, bridges, dams, reservoirs, etc.) shall be evaluated using the standard step method for determining water surface profiles. Values for Manning's roughness coefficient ( $n$ ) shall be consistent with Table I-2 in Appendix I of this Ordinance and PADEP Erosion and Sediment Pollution Control Program Manual.
- K. Outlet structures for stormwater management facilities shall be designed to meet the performance standards of this Ordinance using any generally-accepted hydraulic analysis technique or method.
- L. Specific Infiltration System Design Criteria
  - 1. Infiltration devices shall be selected based on suitability of soils and site conditions. Measures may include porous pavement with underground infiltration beds, vegetated infiltration beds, swales and trenches, or other seepage structures as proposed in the Pennsylvania Handbook of Best Management Practices for Developing Areas (1998) and related references prepared by the USEPA, the Soil Conservation Services, the PA Department of Environmental Protection (PADEP), or other guidance documents.
  - 2. Soil infiltration tests shall be performed for all proposed infiltration areas; these tests shall include evaluation of selected soil horizons by deep pits and percolation measurements. Testing shall be reviewed and approved by the Township Engineer. The soil infiltration rate of discharge from the infiltration area being used in the proposed design shall be based on these measurements.
  - 3. The lowest elevation of the infiltration area shall be at least two (2) feet above the Seasonal High Water Table (SHWT) and bedrock, except in the case of limestone formation, in which case the distance shall be three (3) feet.
  - 4. All roof drains shall discharge to infiltration systems with appropriate measures such as leaf traps and cleanouts taken to prevent clogging by vegetation.
  - 5. All infiltration systems shall have appropriate positive overflow controls to prevent storage within one (1) foot of the finished surface or grade.

6. All infiltration systems shall have a minimum setback of fifteen (15) feet from all residential structures. Care should be taken to prevent any seepage into subgrade structures.
7. All infiltration systems shall be designed to infiltrate the stored volume within forty-eight (48) hours.
8. All surface inflows shall be treated to prevent the direct discharge of sediment into the infiltration system; accumulated sediment reduces stormwater storage capacity and ultimately clogs the infiltration mechanism. No sand, cinders or other particulate matter may be applied to a pervious surface for winter ice conditions.
9. During site construction, all recharge system components shall be protected from compaction due to heavy equipment operation or storage of fill or construction material. Recharge areas shall also be protected from sedimentation. All areas designated for recharge shall not receive runoff until the contributory drainage area has achieved final stabilization.
10. The following procedures and materials shall be required during the construction of all subsurface facilities.
  - a. Excavation for the infiltration facility shall be performed with equipment which will not compact the bottom of the seepage bed/trench, or like facility.
  - b. The bottom of the bed and/or trench shall be scarified prior to the placement of aggregate.
  - c. Only clean aggregate, free of fines, shall be allowed.
  - d. The top and sides of all seepage beds, trenches, or like facilities shall be covered with drainage filtration fabric. Fabric shall meet the specifications of PENNDOT Publication 408, Section 735, Construction Class 1.
  - e. Perforated distribution pipes connected to centralized catch basins and/or manholes with provision for the collection of debris shall be provided in all facilities. The perforated pipes shall distribute stormwater throughout the entire seepage bed/trench, or like facility.
11. All infiltration facilities which service more than one (1) lot and are considered a common facility shall have an easement provided to the Township for future access if necessary.

12. Infiltration structures shall not be located within 150 lineal feet of the edge of any roadway to prevent percolation under the roadway structure.
13. Infiltration structures shall not be located on the upstream side of any roadway to prevent the introduction of water under the roadway.
14. In the case of infiltration trenches, a stormwater collection system consisting of pipes and inlets shall be designed to introduce runoff into the infiltration trench.
15. All calculations for infiltration structures shall assume a 40% void of the aggregate.
16. It will be the responsibility of the developer to maintain all infiltration structures which control runoff from roadways. The developer is responsible for creating deed restrictions or enter into an agreement which has the township take responsibilities for the improvements. The plan and deed should clearly indicate that the homeowner is responsible for individual on-lot infiltration area installation, maintenance, and repair.
17. A minimum of one infiltration test shall be conducted for each detention basin or infiltration area, unless the detention area is greater than 1 acre, in which case one infiltration shall be conducted for each detention area acre.

M. Additional Stormwater Detention/Retention Facilities Design Requirements

1. The following setbacks are required for stormwater management facilities:
  - a. Stormwater retention or detention basins shall be located at least fifty (50) feet from any structure, whether existing or proposed.
  - b. Stormwater retention or detention basins shall be located at least fifty (50) feet from any property boundary or right-of-way.
  - c. Stormwater retention or detention basins shall be located at least fifty (50) feet from existing wetlands, or the banks of existing streams.
  - d. Recharge systems greater than three (3) feet deep shall be located at least fifteen (15) feet from any basement wall and twenty-five (25) feet from wastewater treatment areas.
  - e. Any recharge system designed to handle run-off from any commercial or industrial impervious parking or outside storage area shall be a minimum of fifty (50) feet from any water supply well or any wastewater treatment area.

2. Riser. A riser or other acceptable outfall shall be provided at the outlet of all detention basins. The riser shall be constructed of precast or poured in place concrete with controlled orifices. The riser shall extend to an elevation one (1) foot below the invert elevation of the emergency spillway. The 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. 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 plan normal to the basin berm, shall be provided on the top of the riser.
3. Landscaping. All stormwater control systems, whether existing or proposed, shall be planted to effectively naturalize areas so as to become an integral and harmonious element in the local landscape. No trees shall be planted in dams more than fifteen (15) feet high.
4. Emergency Spillway. Whenever possible, the emergency spillway for detention basins shall be constructed on undisturbed ground. Emergency spillways shall be designed according to the Soil Conservation Service Engineering Field Manual. 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 one hundred (100) year design storm. Emergency spillways shall extend along the upstream and downstream berm embankment slopes. The upstream edge of the emergency spillway shall be a minimum of two (2) feet below the spillway crest elevation. The downstream edge of the spillway shall, at minimum, extend to the toe of the berm embankment. The emergency spillway shall not discharge over earthen fill and/or easily erodible material.
5. 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.
6. 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 one and one half (1.5) feet.

7. Slope of Detention Basin Embankment. The maximum slope of earthen detention basin embankments shall meet the requirements contained in this subsection. Whenever possible, the side slopes and basin shape shall be amenable to the natural topography. Straight side slopes and rectangular basins shall be avoided.
8. Width of Berm. The minimum top width of detention basin berms shall be ten (10) feet.
9. Slope of Basin Bottom. In order to insure proper drainage of the detention basin, a minimum grade of two (2) percent shall be maintained for all sheet flow. A minimum grade of one (1) percent shall be maintained for all channel flow.
10. Energy Dissipaters. Energy dissipating devices (rip-rap, end sills, etc.) shall be placed at all basin outlets. Any pipe or other component which discharges directly into the basin shall be equipped with energy dissipating devices and shall outlet into the bottom of the basin.
11. Landscaping and Grading of Detention Basin. All landscaping and grading standards shall be as follows:
  - a. Cuts. No excavation shall be made with a cut face steeper than three (3) horizontal to one (1) vertical, except under the condition that the material in which the excavation is made is sufficiently stable to sustain a slope of steeper than three (3) horizontal to one (1) vertical. A written statement to that effect is required from an engineer and must be submitted and approved by the Township Engineer. The statement shall affirm that the site has been inspected and that the deviation from the slope should not result in injury to persons or damage to property. Retaining walls shall be required if a stable slope cannot be maintained. Any retaining wall design must be approved by the Township Engineer. The toe of the slope or headwall of any cut must be located a minimum of five (5) feet from property lines.
  - b. Fills. No fills shall be made which creates any exposed surfaces steeper in slope than three (3) horizontal to one (1) vertical, except where the fill is located so that settlement, sliding, or erosion will not result in property damage or be a hazard to adjoining property, streets, or buildings. A written statement is required from an engineer certifying that s/he has inspected the site and that any proposed deviation from the slope specified above should not endanger any property or result in property damage, and must be submitted to and approved by the Township Engineer.

- 1) A concrete or stone masonry wall designed and constructed in accordance with these specifications and standards may be required to support the face of the fill where the above specified slopes are exceeded.
  - 2) The top of any fill or toe of the slope of any fill shall be located twenty-five (25) feet from any property line with the exception of a downstream property line where the toe of the embankment shall be placed a sufficient distance to allow for energy dissipating devices, but in no case less than forty (20) feet unless approved otherwise by the Township.
- c. Planting Requirements. All areas proposed for recreational use, whether active or passive, shall be planted to effectively naturalize the areas to become an integral and harmonious element in the natural landscape.
  - d. Drainage Channels and Retention Areas. All storm drainage channels and retention areas, whether existing or proposed, shall be graded and planted to effectively naturalize areas so as to become an integral and harmonious part of the landscape by contour and type of plant material employed.
  - e. Fence or Screening. A fence and suitable vegetation screen shall be provided around all detention basins as required by the Township Engineer. All vegetative screening shall be at least three and one-half (3 1/2) feet in height and shall be composed of the following shrubs: Barberry (Barberis species); Eleagnus (Eleagnus species); Firethorn (Pyracantha species); or Rose (Rose species). All vegetative screening shall provide a barrier to prevent entrance to the detention basin area. The fencing and vegetative screening requirement shall be waived only upon approval by the Township.
12. Easements for all basins and storm pipes not located with the public street right-of-way shall be provided.

#### N. Stormwater Drainage System Design Requirements

1. Grates. All inlets must be provided with bicycle safe grates to protect the public from any harm.
2. Existing Storm Sewers. Where existing storm sewers are reasonably accessible and of adequate capacity, subdivisions and land developments may connect to the



existing storm sewers if the developer can prove that the existing system can handle the additional flow and that the discharge point will not be changed by this additional flow. The calculations to substantiate the connection must follow the guidelines of this ordinance.

3. Straight Pipe Selections. Wherever possible, all storm drain pipes shall be designed to follow straight courses. No angular deflections of stormsewer pipe sections in excess of five (5) degrees shall be permitted. No vertical curves shall be permitted in the storm drain pipe system.
4. Minimum Grade and Size. All storm drain pipes are recommended to maintain a 1% slope however a minimum grade of one-half (1/2) percent can be used. All storm pipes shall have a minimum inside diameter of fifteen (15) inches, except that pipes under a twenty-five (25) or greater fill shall not be less than twenty-four (24) inches, or a cross-sectional area of four hundred fifty-three (453) square inches.
5. Pipe Material and Thickness. All storm sewers shall be Reinforced Concrete Pipe (RCP) or Smooth Lined Polyethylene Corrugated Plastic Pipe (SLCPP).
6. Pipe Capacity. The capacity of all pipe culverts shall, as a minimum, provide the required carrying capacity as determined by the following source:  
  
Hydraulic Engineering Circular No. 5  
  
Hydraulic Charts for the Selection of Highway Culverts
7. Pipe Arches. Where headroom is restricted, equivalent pipe arches may be used in lieu of circular pipes.
8. 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 of the manhole cover.
9. Horizontal Pipe Deflections. A manhole or inlet shall be provided at all horizontal deflections in the storm pipe system exceeding five (5) degrees.
10. Minimum and Maximum Cover. A minimum of eighteen (18) inches 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.
11. Diversion or 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. No discharge at the top or side of basin embankments shall be permitted.
12. Culverts and Drainage Channels.
  - a.. 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 three (3) feet per second to prevent erosion unless special provisions are made to protect banks and channel bottoms against 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 (30) degrees from parallel with 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 stabilizing media. For grass swales and roadside gutters two (2) design considerations shall be met:

- (1) Temporary condition
- (2) Permanent condition

13. All drainage facilities shall be designed to adequately handle surface runoff and carry it to suitable outlets.
  - a. Drainage structures that are to be located within state highway rights-of-way shall be approved by the Pennsylvania Department of Transportation, and a letter from that Department indicating such approval shall be submitted to the Township.
  - c. Where applicable, a right-of-way or easement of sufficient width to include a ten-foot (10') access strip in addition to the width of the ditch from bank top shall be created for drainage and maintenance purposes. The supervisors may require a wider ditch right-of-way or easement where deemed necessary.
  - d. Subsurface drainage systems shall have curb inlets located at curb tangents on the uphill side of street intersections and at other locations as may be required by the Supervisors as necessary to intercept runoff. Design and location of curb inlets shall be in accordance with Pennsylvania Department of Transportation Design Manual Part 2 and be approved by the Supervisors. Inlets shall be designed and located to prevent hazards to vehicles, bicycles and pedestrians.
  - e. Ductile iron culvert pipe shall be used for all storm sewer lines that pass through any permanent structures such as wall, footings, or buildings.
  - f. All drainage facilities are to be maintained by the owner to retain their design capacity. A note shall be placed on the plan indicating the maintenance responsibilities.
14. Curb, gutter, and roadside swale depths shall comply with the following requirements:

- (a) If a proposed lot or development site is to be graded so as to redirect postdevelopment flow into a gutter or swale along an existing street where no curbs exist, or when an existing gutter or swale is to be integrated into the proposed storm water conveyance system, a maximum depth of six (6) inches shall be permitted in the roadside gutter or swale.
- (b) All drive intersections shall be designed so that flows do not enter the site from the adjacent street and no additional flows are diverted onto the adjacent street.

## 1121. UNDERGROUND UTILITIES AND EASEMENTS

A. In accordance with a Pennsylvania Public Utility Commission order of July 8, 1970, all electric utility distribution lines shall be installed underground in subdivisions or land development of five (5) or more proposed dwelling units. The following design standards shall also be observed.

- 1. Whenever possible, telephone and cable television utilities shall also be installed underground.
- 2. Whenever possible, electric, and communications utilities shall jointly occupy the same trenches in the utility easements.
- 3. A utility service plan for the proposed subdivision or land development shall be prepared and provided by the developer in cooperation with the appropriate public utility companies and governmental agencies.
- 4. Electric, gas and communications if located in the street right-of-way should be between centerline of the roadway and curb line opposite water service.
- 5. All utilities shall have minimum separation distances as established in PADEP domestic wastewater facilities manual or the public or private Authority Regulations owning the utility. The more stringent requirements will apply.
- 6. Gas utilities must be located in a trench separate from all other utilities.

### B. Utility Easements

- 1. Utility easements shall be provided for wires, conduits, storm and sanitary sewers, gas and water mains, and/or other utility lines intended to service the abutting lots. Within such easements, no structures shall be permitted to locate. The developer shall consult the local utility company when locating the utility easements.

2. The location of utility easements shall be either:
  - a. Abutting the street right-of-way in which case an easement with a minimum width of ten feet (10') shall be required.
  - b. Along the rear or side lot lines in which case an easement with a minimum width of twenty feet (20') shall be required—ten feet (10') on each side of the lot line. The Township Supervisors may require an easement with a minimum width of fifteen feet (15') where the lot line coincides with the subdivision property line.

## 1122. EROSION AND SEDIMENT CONTROLS

### A. General Standards

1. A plan for minimizing erosion and sedimentation control within a proposed subdivision or land development tract shall be prepared by the developer and submitted to and reviewed by the Schuylkill Conservation District and reviewed and approved by the Township Supervisors prior to any changes being made in the contour of the land and prior to grading, excavating, removal, or destruction of the topsoil, trees or other vegetative cover of the land.
2. Measures used to control erosion and reduce sedimentation shall meet the standards and specifications of the Schuylkill Conservation District as established in the latest Schuylkill County Erosion and Sediment Control Handbook. The Township Engineer, or other designated official, shall ensure compliance with the appropriate specifications, copies of which are available from the District.
3. All areas of the subdivision shall be stabilized in accordance with the approved Erosion and Sedimentation Control Plan.
4. The Township Supervisors may determine that such plans are not necessary. In such case, the plan shall indicate that individual lot owners are responsible for the preparation of erosion and sedimentation controls for their individual lots.

### B. Performance Principles. The measures which follow are effective in minimizing erosion and sedimentation and shall be included, where applicable, in the control plan:

1. Stripping of vegetation and grading shall be kept to a minimum.
2. All development plans shall strive to preserve significant natural features,

keep cut and fill operations to a minimum, and ensure conformity with the existing topographic features in order to create the least possible erosion potential and to adequately handle the volume and velocity of surface water runoff.

3. Whenever possible, the natural vegetation should be retained, protected and if required, supplemented.
4. The area which is disturbed and the duration of such exposure shall be kept to a minimum.
5. Permanent vegetation and/or mechanical erosion control and drainage measures shall be used to stabilize disturbed soils. Such measures shall be employed as soon as possible in the development process.
6. Temporary vegetation and/or mulching shall be used to protect exposed critical areas during development.
7. Provisions shall be made to effectively accommodate the increased runoff caused by changed soil and surface conditions during and after development. Where necessary, the rate of surface water runoff shall be mechanically retarded.
8. Until the disturbed area is stabilized, sediment in the runoff water shall be trapped by the use of debris basins, sediment basins, silt traps, or similar measures.

C. Grading for Drainage. In order to preserve more suitable sites for building and other uses, improve surface drainage, and control erosion, the following grading requirements shall be met:

1. Proper drainage shall be provided away from buildings on all lots, tracts, or parcels within a proposed subdivision or land development. The resulting surface water shall be disposed of without ponding. Natural drainage patterns shall be preserved whenever possible.
2. All provisions for drainage shall be designed to adequately handle the surface runoff and carry it to the nearest suitable outlet such as a curbed street, storm drain, or natural watercourse. Drainage swales used to divert surface water away from buildings shall be sodded or planted as required and shall be of such a slope, shape, and size as to be in conformance with the requirements of the Township Supervisors.

3. The concentration of surface water runoff shall be permitted only on swales or watercourses.
4. A maximum slope of 2:1 shall be maintained on all cut and fill slopes unless they are stabilized by a retaining wall or cribbing or except as approved by the Township Supervisors and handled under special conditions.
5. Provisions shall be made to prevent surface water from damaging the cut face of excavations or the sloping surfaces of fills. Cut and fill slopes shall not endanger adjacent property.
6. Fill shall be placed and compacted so as to minimize sliding or erosion of the soil.
7. Fill embankments shall not encroach on natural watercourses or constructed channels.
8. Fills, when placed adjacent to natural watercourses or constructed channels, shall have suitable protection against erosion during periods of flooding.
9. Grading shall not be performed in such a way as to divert water onto the property of another landowner unless the expressed written consent of that landowner is secured.
10. During grading operations, necessary measures for dust control will be exercised.

### 1123. OPEN SPACE AND RECREATION AREAS

- A. Purpose. All residential subdivisions or land development plans shall provide for suitable and adequate open space/recreation areas in order to:
  1. Ensure adequate recreational areas and facilities to serve residents of the Township.
  2. Allow for orderly acquisition and development of additional recreation areas and open spaces.
- B. Exemptions. Any residential subdivision or land development plan that contains fewer than five (5) dwelling units is exempt from the open space/recreation requirements of this section.
- C. Amount of Land, Residential Developments. Two thousand (2,000) square feet of

open space and recreation area per dwelling unit shall be set aside for open space or recreation.

D. Amount of Land, Non-residential Developments. The amount of land or cash from non-residential subdivisions and land developments shall be determined by the number of dwelling units that would result if eighty percent (80%) of the tract were occupied by one (1) acre lots for single family dwellings (i.e., 100-acre tract = 80 dwelling units). When the computation of dwelling units results in a fractional number, only the fraction of one-half or more shall be counted as one.

E. Fee in Lieu of Land

1. If mutually acceptable to the Township Supervisors and the developer, a fee of \$1000 per dwelling unit can be paid in lieu of dedicating land for open space and recreation as per Section 1123.C or 1123.D.
2. All monies paid to the Township pursuant to this section shall be kept in an interest-bearing capital reserve fund, and all interest earned on such accounts shall become funds of that account. Monies in such fund shall be used only for the acquisition of land or capital improvements for park and recreation purposes.

F. Characteristics of Open Space and Recreation Areas

1. Twenty-five percent (25%) of the land set aside for open space and recreation areas shall be less than five percent (5%) slope and be suitable for active recreation uses.
2. These areas may be dedicated in fee-simple to the Township if dedication is acceptable.
3. If these areas are not dedicated to the Township, a legal entity shall be provided to operate and/or maintain the open space and recreation areas. This entity may include but not be limited to a condominium, cooperative, homes' association, trust, or corporation.

G. Dedication of Land to the Township

1. The Township Supervisors may accept any portion of the open space/recreation area, provided that no cost is involved and the Township agrees to and has access to maintain such lands.
2. Such area dedicated to the Township for public use shall be suitable for

recreational purposes by reasons of size, shape, location, topography, and access.

#### 1124. OFF-STREET PARKING AND LOADING

- A. Every land development or subdivision shall provide the minimum number of off-street parking and loading spaces required by the Zoning Ordinance.
- B. Off-street parking or loading spaces may be in an individual garage, carport, or driveway or in a common parking area outside the street right-of-way, convenient to the dwelling units or use to be served, and shall be installed concurrently with the construction of the dwelling units.
- C. General Design Requirements for Off-Street Parking
  - 1. Every parking facility shall be designed so that its use does not constitute a nuisance, hazard, or unreasonable impediment to traffic.
  - 2. Every parking area shall be arranged for orderly, safe movement.
  - 3. No parking area shall be designed to require or encourage parked vehicles to back into a public street in order to leave a parking space, except those of a single family or two family dwelling onto streets other than major or minor arterial streets.
  - 4. Every parking area shall be designed so that each motor vehicle may proceed to and from the parking space provided for it without requiring the moving of any other motor vehicle, except those of a single family or two-family dwelling.
  - 5. No parking area shall be located in a required buffer yard.
  - 6. No parking area shall be located within ten (10') feet of a septic system absorption area.
  - 7. All commercial/industrial parking areas shall have adequate lighting to provide for safety and comfort of persons using the area.
  - 8. For Commercial/Industrial parking, paving depths shall at least match local roads paving depths unless heavy truck traffic is anticipated in which extra depth paving will be required.
- D. Parking Spaces
  - 1. Each parking space shall have a stall width of nine feet (9').



2. Each parking space shall have a stall depth of:
  - a. at least twenty feet (20') for all angle parking, or
  - b. at least twenty-two feet (22') for parallel parking.
3. All spaces shall be marked so as to indicate their location, except those of a single family or two-family dwelling.

E. Aisles

1. Each aisle providing access to stalls for one-way traffic only shall be at least the minimum aisle width specified as follows:

<u>Angle of Parking</u>	<u>Minimum Aisle Width</u>	
	<u>One Way</u>	<u>Two Way</u>
Parallel	12 feet	20 feet
30 degrees	12 feet	20 feet
45 degrees	15 feet	20 feet
60 degrees	18 feet	20 feet
90 degrees	20 feet	24 feet

Aisle width for one-way traffic

**Table 11-3**

2. No aisle shall exceed two hundred fifty feet (250') in length.

1125. SIDEWALKS, PATHWAYS, AND DRIVE APRONS

- A. Sidewalks or pathways shall be required in all residential developments where density exceeds three (3) dwelling units per acre or when the total number of lots, regardless of phasing, is greater than 30 lots.
- B. In other subdivisions or land developments, sidewalks or pathways may also be required by the Township Supervisors.
- C. Location
  1. Sidewalks, where required or provided, shall be located within the street right-of-way and not closer than one foot (1') from the right-of-way line nor closer than three feet (3') from the curb line.
  2. A grass planting strip shall be planted between the curb and sidewalk.

- D. Sidewalks/pathways shall have a minimum width of five feet (5').
- E. Required Construction
  - 1. Sidewalks and crosswalks shall be constructed of Class A cement concrete at least four inches (4") thick underlain by four inches (4") of compacted gravel or crushed stone.
  - 2. Sidewalks at driveway crossings and driveway aprons shall be at least six inches (6") thick reinforced and underlain by four inches (4") of compacted gravel or crushed stone. The reinforcing shall be one (1) layer of six inch (6") by six inch (6") number nine (9) wire.
  - 3. Pathways shall be Portland cement concrete or bituminous of at least four inches (4") thick underlain by three inches (3") of compacted gravel or crushed stone.
- F. Handicapped Ramps. In addition to the preceding requirements, all sidewalks shall provide ramps for adequate and reasonable access for the safe and convenient movement of the physically handicapped persons, including those in wheelchairs, across curbs at all pedestrian crosswalks. These facilities shall be constructed in accordance with Chapter 8, "**Pedestrian Facilities**" of the PENNDOT Design Manual Part 2 and **The Americans With Disabilities Act (ADA)**.
- G. Adequate lighting shall be provided for pathways and sidewalks.

#### 1126. STREET LIGHTING

- A. In accordance with the conditions to be agreed upon by the subdivider, the Township Supervisors, and the appropriate public utility, street lights are recommended to be installed in all subdivisions and residential land developments. However, whether or not street lights are initially installed, the subdivider and/or land development shall be responsible for providing utility easements for future street lighting installation upon consultation with the public service utility company involved.
- B. The developer shall be required to provide street lights when the Township Supervisors deems them necessary to provide safe traffic circulation.
- C. Such lights shall meet design standards and specifications of the Pennsylvania Department of Transportation, subject to the approval by the Township Supervisors upon recommendation from the Township Engineer, who shall review for adequacy.
- D. Lighting for roadway safety shall be required for all street intersections, cul-de-sacs,

entryways to commercial and industrial land developments, and in parking lots.

- E. When lighting is required, it shall be provided in accordance with an illumination plan designed in conformance with the standards provided in the latest IESNA Lighting Handbook.
- F. The maximum height of standards shall not exceed the maximum building height permitted, or twenty-five (25) feet, whichever is less.
- G. The height and shielding of lighting standards shall provide proper lighting without hazard to drivers or nuisance to residents and the design of lighting standards shall be of a type appropriate to the development and the municipality.
- H. Spotlights, if used, shall be placed on standards pointing toward the buildings and positioned so as not to blind the residents, rather than on the buildings and directed outward which creates dark shadows adjacent to the buildings.

#### 1127. IDENTIFICATION SIGNS

- A. The developer shall provide the subdivision or land development with adequate street signs at the intersections of all streets and with any other signs required.
- B. Sign style, color, and lettering shall be subject to the approval of the Township Supervisors.

#### 1128. REGULATORY SIGNS

- A. The developer shall be required to provide traffic regulatory signs that shall meet current design standards as established by the Pennsylvania Department of Transportation.

#### 1129. LANDSCAPING

- A. The need for landscaping will be determined by the Township Supervisors dependent upon size, location, and specifics of each subdivision. However, landscaping shall be provided, consistent with the standards of this Ordinance, in all subdivisions and land developments, except when the township has adopted more restrictive specifications by separate ordinance.
- B. Natural Features and Topsoil
  - 1. Wherever feasible, subdivisions and land developments shall be designed to preserve natural features such as trees greater than one (1) foot in diameter, watercourses, rock outcroppings, wooded areas, natural watercourses and

bodies of water.

2. Topsoil shall not be removed from the subdivision site nor used as structural fill without the permission of the Supervisors. Topsoil may be removed from areas of earthmoving activity, but shall be stored elsewhere within the subdivision and stabilized to minimize erosion. Upon completion of construction, the topsoil shall be redistributed on the site.
3. Street and lot designs of tracts shall be such to minimize alterations of the natural landscape.

C. Ground Cover Requirements

1. Exposed ground surface in all parts of the subdivision shall be paved or covered with stone screenings, or other solid material, or protected with a vegetative growth, consisting of spreading plants including sods and grasses less than eighteen (18) inches in height, that is capable of preventing soil erosion and the emanation of dust during dry weather.
2. The vegetative cover shall not be poisonous in nature.

D. Buffer Yards. The Township Supervisors may require the provision of a buffer yard meeting the requirements of this Section in order to reduce conflicts between proposed subdivision or land development and other developments or areas.

1. Size, Location

- a. A twenty foot (20') buffer yard shall be required, unless otherwise indicated in this Ordinance.
- b. The buffer yard shall be measured from the district boundary line or from the street right-of-way line (where a street serves as the district boundary line). Buffer yards shall not be within an existing or future street right-of-way and shall be in addition to that right-of-way.
- c. The buffer yard may be coterminous with a required front, side or rear yard, provided the larger yard requirement shall apply in case of conflict.

2. Characteristics

- a. The buffer yard shall be a landscaped area free of structures, manufacturing or processing activity, materials, or vehicular parking.

No driveways or streets shall be permitted in the buffer yards except at points of ingress or egress.

- b. In all buffer yards, all areas not within the planting screen shall be planted with grass seed, sod, or ground cover and shall be maintained and kept clean of all debris, rubbish, grass more than twelve inches (12") in height, or weeds.

### 3. Planting Screen

- a. Each buffer yard shall include a Planting screen of trees, shrubs, and/or other plant materials extending the full length of the lot line to serve as a barrier to visibility, airborne particles, glare, and noise.
- b. Each Planting Screen shall be in accordance with the following requirements:
  - (i) Plant materials used in the Planting Screen shall be of such species and size as will produce, within two (2) years, a complete year-round visual screen of at least eight feet (8') in height.
  - (ii) The Planting Screen shall be permanently maintained by the landowner and any plant material which does not live shall be replaced within one (1) year.
  - (iii) The Planting Screen shall be so placed that at maturity it will be at least three feet (3') from any street or property line.
  - (iv) The Planting Screen shall be broken only at points of vehicular or pedestrian access and shall comply with Sections 1113 and 1117.D.

### 4. Existing Wooded Areas

Existing wooded areas shall be protected to prevent unnecessary destruction. At least twenty-five (25%) percent of the number of trees (minimum trunk caliper of five (5) inches at six (6) inches above ground) that exist at the time of Plan submission shall be maintained or replaced immediately following construction. Replacement trees shall be a minimum trunk caliper of two (2) inches at a height of six (6) inches above finished grade and located within unbuildable sections of the site (i.e., floodplain, steep slope, and setback areas). Plans shall be submitted showing existing trees and proposed construction and which indicate conformance with this Section.

### 5. Street Trees

Street trees shall be provided in all residential subdivisions with densities greater than one (1) dwelling per acre and all commercial developments. All street trees shall be provided by the applicant in accordance with the following standards:

- a. The trees shall be nursery grown in a climate similar to that of the locality of the project. Varieties of trees shall be subject to the approval of the township.
- b. All trees shall have a normal habit of growth and shall be sound, healthy, and vigorous; they shall be free from disease, insects, insect eggs, and larvae.
- c. The trunk diameter, measured at a height of six (6) inches above finish grade, shall be a minimum of two (2) inches.
- d. Trees shall be planted between the street right-of-way line and the building setback line except where the township have authorized placement of trees within the street right-of-way. The trees' growth shall not interfere with the street cartway, sidewalk, or utility line. Street tree branching shall not interfere with clear sight triangles. Typical branching shall not be within ten (10') feet of ground level after ten (10) years of growth.
- e. All planting shall be performed in conformance with good nursery and landscape practice and to the standards established by the authority which accepts ownership of the planting.
- f. Requirements for the measurements, branching, grading, quality, balling, and the burlapping of trees shall follow the code of standards recommended by the American Association of Nurserymen, Inc., in the American Standard for Nursery Stock, ANSIZ60, current edition, as amended.
- g. A minimum of two (2) canopy street trees shall be provided for every one hundred (100) feet of public right-of-way. Street trees shall be placed a minimum of forty (40) feet apart along the right-of-way, and shall be located so as to maximize the growth potential of the plant material, minimize the potential for root interference with public infrastructure, and enhance the quality of the development. Recommended street trees shall be one of the following species:

Acer platianoides  
Acer rubrum cultivars  
Acer saccharum

Norway Maple  
Red Maple  
Sugar Maple

Aesculus hippocastanum	Common Horse Chestnut
Aesculus x cornea	Red Horsechestnut
Cladrastus lutea American	Yellowwood
Fraxinus pennsylvanica	Green Ash
Gleditsia triacanthos inermis	Thornless Honey Locust
Liquidambar styraciflua	Sweet Gum
Ostrya virginiana	Hop Hornbeam
Quercus acutissima	Sawtooth Oak
Quercus palustris	Pin Oak
Quercus rubra	Red Oak
Tilia cordata	Littleleaf Linden
Tilia x euchlora	Crimean Linden
Tilia tomentosa	Silver Linden
Ulmus parvifolia	Lacebark Elm
Zelkova serrata	Japanese Zelkova

Other tree species may be used provided acceptable information is submitted to indicate that the species are hardy street trees. No one species shall comprise more than twenty-five (25%) percent of the entire number of street trees in a particular development.

- h. Street trees are to be installed by the lot owner, by deed restriction, or by the developer and maintained and guaranteed for a minimum of two years. Planting of trees shall occur within the standard planting season (March through November). No more than one-third (1/3) of the tree shall be damaged or dead without replacement. Replacement trees shall conform to all requirements of this section and shall be maintained and guaranteed for a minimum of two planting seasons.

## 1130. FLOODPLAINS

### A. General Standards

- 1. Floodplains shall be shown on all subdivision and land development plans. The floodplain controls established by the Township Floodplain Ordinance and enacted in accordance with the Federal Emergency Management Agency shall be applied to all subdivisions and land developments.
- B. No watercourse shall be altered or relocated unless approved by the Township Supervisors and, where applicable, the appropriate state and federal agencies.
- C. No watercourses shall be altered or relocated unless the person proposing the alteration or relocation submits calculations assuring that the flood carrying capacity within the altered or relocated portion of the watercourse shall be designed to be not

less than the flood-carrying capacity of the watercourse prior to the proposed alteration or relocation.

- D. No encroachment shall be made on a floodplain or watercourse which will increase flood levels within the township during the occurrence of the one-hundred-year flood discharge. With any proposal for an encroachment, calculations which will indicate compliance with these requirements shall be submitted to the township. All encroachments are subject to Supervisors approval.
- E. Any fill permitted by the Supervisors is subject to the following:
  - 1. Fills shall consist of soil or rock materials only. Sanitary landfills shall not be permitted.
  - 2. Adequate provisions shall be made to prevent surface water from damaging the sloping surfaces of fills.
  - 3. Fills shall be placed and mechanically compacted to minimize sliding and erosion of soil.
  - 4. Fill slopes shall be no steeper than one (1) vertical unit to two (2) horizontal units.
- F. Any changes in an existing drainage way shall be subject to the approval of the Pennsylvania Water and Power Resources Board, Division of Dams and Encroachments, Department of Environmental Protection or the Army Corps of Engineers when either or both have jurisdiction.

#### Section 1131. GROWING GREENER DESIGN STANDARDS

- A. At the discretion of the developer, the option to utilize these standards is to be discussed with the Township if this type of development is to be considered but not specifically outlined in this ordinance.

#### Section 1132. RENEWABLE ENERGY SYSTEM

- A. The Township encourages the use of renewable energy systems and energy conservation building design. Individual standards are to be reviewed on a case by case basis.



## ARTICLE 12 - REQUIRED IMPROVEMENTS

### 1201. INTRODUCTION

- A. Minimum improvements and construction standards required of all subdivisions shall be as set forth in this section. Where not set forth, they shall be in accordance with the prevailing standards as established by the Township or Commission Engineer. Alternate improvement standards may be permitted if the Township Supervisors or Planning Commission deems them equal or superior in performance characteristics to the specified improvements. Additional or higher type improvements may be required in specific cases where the Township Supervisors or Commission believes it necessary to create conditions essential to the health, safety, morals, and general welfare of the citizens of the Township.

### 1202. GENERAL REQUIREMENTS

- A. The provision, construction, and installation of all physical improvements in the proposed subdivision tract shall be as noted on the Record Plan and shall also be in accordance with the requirements of the Township Supervisors.

The developer shall arrive at an agreement with the Township as to the installation of all improvements shown on the Plan and as required by this Ordinance. This agreement shall be made prior to review of the Final Plan by the Township Planning Commission and the Township Supervisors. A completed and executed original copy of the Subdivision Improvements Agreement shall be submitted to the Township prior to the Township Planning Commission and Township Supervisors endorsement of the Record Plan.

The developer shall install and construct all improvements in accordance with the design specifications of the Township. If there are no Township specifications furnished, the Township may require the developer to have specifications prepared by a Registered Professional Engineer at the developer's expense.

It shall be the responsibility of the Township or of the appropriate State regulatory agency to supervise the installation of those improvements required by this Ordinance.

### 1203. STREETS

- A. Required improvements and construction standards shall be in accordance with Article 11 of this Ordinance.
- B. Streets shall be graded, surfaced, and improved to the grades and dimensions shown on plans, profiles, specifications, and cross-sections submitted by the subdivider and approved by the Township Supervisors.
- C. All paving shall meet the current specifications of the Pennsylvania Department of Transportation as set forth in Article 11 of these Regulations.

### 1204. SIDEWALKS

- A. Standards for the provision and installation of sidewalks shall be in accordance with Article 11 of these Regulations.
- B. However, where abutting residential lots have frontage measured at the building line of not less than one hundred feet (100') and an area of not less than twenty thousand (20,000) square feet, or where the rural character of the proposed subdivision and its surroundings justifies less intensive development, the installation of sidewalks may be waived based on the suggestion of the Township Planning Commission and approval of the Township Supervisors.

### 1205. STREET SIGNS

- A. The developer shall provide adequate street signs at the intersections of all streets. The type, height, and design shall be approved by the Township Supervisors and shall match township standards.
- B. Street Signs shall be made of flat sheet metal, green with white reflective letters mounted on breakaway posts consistent with latest version of PENNDOT standards, and meeting the minimum requirements in the latest version of the Manual on Uniform Traffic Control Devices (MUTCD) standards.

### 1206. WATER SUPPLY

- A. The installation of all water supply and distribution systems shall be in accordance with the design standards and requirements established in Section 1118 of this Ordinance.

- B. The minimum size of the water distribution mains within the subdivision shall be eight inches (8") in diameter or larger if necessary based on water modeling.
- C. Fire hydrants shall be provided as an integral part of the water supply system. Fire hydrants shall be installed within six hundred feet (600') of all structures, as measured by way of accessible streets.

#### 1207. SANITARY SEWER SYSTEM

- A. The installation of all sanitary sewers shall be in accordance with the design standards and requirements established in Section 1119 of this Ordinance.
- B. The minimum size of the sewer mains within the subdivision shall be eight inches (8") in diameter. Or larger based on design calculations

#### 1208. STORM DRAINAGE SYSTEMS

- A. The installation of all storm drainage systems shall be in accordance with the design standards and requirements established in Section 1120 of this Ordinance.
- B. All drainage structures, culverts, boxes, grates, etc., shall conform to the current specifications of the Pennsylvania Department of Transportation as approved by the Township Supervisors upon review and recommendation of the Township Engineer.

#### 1209. UNDERGROUND UTILITIES AND EASEMENTS

- A. The installation of other utilities, including electric, telephone, gas, and cable television, shall be in accordance with the design standards and requirements established in Section 1121 of this Ordinance.
- B. Utilities serving the area of the proposed subdivision shall be consulted with respect to location, size, and use of easements for utility purposes.

#### 1210. EROSION AND SEDIMENTATION PLAN

- A. The installation of all erosion and sedimentation plan shall be in accordance with the design standards and requirements established in Section 1122 of this Ordinance.
- B. All erosion and sedimentation control structures and other devices shall conform to the requirements of the Department of Environmental Protection *Erosion and*

*Sediment Pollution Control Program Manual* in its latest edition.

1211. MONUMENTS AND MARKERS

A. Material and Size - Monuments and markers shall be constructed as follows:

	<u>Construction</u>	<u>Minimum Size</u>
Monument*	Concrete or Stone	4" x 4" x 24"
Marker	Iron Pipes or Iron or Steel Bars	36" x 5/8" dia.

\* Monuments shall be marked on top with a copper or brass dowel.

Placement, Marking - Monuments and markers must be placed by a registered engineer or surveyor so that the scored or marked point coincides exactly with the point of intersection of the lines being monumented. They must be set so that the top of the monument or marker is level with the surface of the surrounding ground. Monuments must be marked on top with a copper or brass dowel.

C. Monuments, Location of - Monuments must be set at:

1. One corner of a lot comprising a single lot subdivision, or at one predominant intersection of a street and a property line of a lot in a subdivision comprised of not more than five (5) contiguous lots or parcels.
2. At least three (3) predominant line intersections or line angles in subdivisions of more than five (5) lots or parcels, and in any land development program. When any program of development and/or subdivision encompasses more than twenty (20) acres, the Planning Commission upon recommendation of the Township or Commission Engineer or their own accord may require additional monuments at designated points.
3. Such other points as may be required by Township or Commission Engineer and Planning Commission when unusual conditions may create sight problems or cause unusual deviation from normal surveying practice.

D. Markers, Location of - Markers must be set:

1. At the beginning and ending of curves along street property lines if not monumented.
2. At points where lot lines intersect curves either front or rear.

3. At angles in property lines of lots.
  4. At all other lot corners.
- E. Township Datum – If at the time of preliminary plan submission, an existing township datum has been established, the developer must tie into the datum. Also, at preliminary and final plan stage the layout plans for the development must be submitted as electronic files

## 1212. TRAFFIC IMPACT STUDIES

- A. Whenever a proposed project will generate one hundred (100) new vehicle trips in the peak direction (inbound or outbound) during the site peak traffic hour, the applicant shall perform a traffic impact study. Based on this study, certain improvements may be identified to provide safe and efficient access to the development.
- B. In addition, a traffic impact study shall be prepared whenever either one of the following conditions exist within the impact study area:
1. Current traffic problems exist in the local area, such as a high-accident location, confusing intersection, or a congested intersection which directly affects access to the development.
  2. The ability of the existing roadway system to handle increased traffic or the feasibility of improving the roadway system to handle increased traffic is limited.
- C. Area of Traffic Impact Study -The traffic impact study area shall be based on the characteristics of the surrounding area. The intersections to be included in the study shall be adjacent to the site or have direct impact upon the access to the site. The intersections shall be mutually agreed upon by the municipalities in which the proposed project is located and the traffic engineer preparing the study. The County Planning Commission shall be called upon to resolve any disputes between the municipality and the traffic engineer.
- D. Preparation by Transportation Engineer Required. -Traffic impact studies shall be prepared under the supervision of qualified and experienced professional engineers with specific training in traffic and transportation engineering and at least 5 years of experience related to preparing traffic studies for existing or proposed developments.
- E. Time Period - The traffic forecasts shall be prepared for the existing conditions anticipated build year of the development and future year (Ten year projection), assuming full build out and occupancy. This year shall be referred to as the horizon year in the remainder of this ordinance.

- F. Non-Site Traffic Estimates - Estimates of non-site traffic shall be made, and will consist of through traffic and traffic generated by all other developments within the study area for which preliminary or final plans have been approved. Non-site traffic may be estimated using any one of the following three methods: "Build-up" technique, area transportation plan data or modeled volumes, and trends or growth rates.
- G. Trip Generation Rates Required - The traffic impact study report shall include a table showing the categories and quantities of land uses, with the corresponding trip generation rates or equations (with justification for selection of one or the other), and resulting number of trips. The trip generation rates used must be either from the latest edition of Trip Generation by ITE, or from a local study of corresponding land uses and quantities. All sources must be referenced in the study.
- H. Consideration of Pass-By Trips - If pass-by trips or shared-trips are a major consideration for the land use in question, studies and interviews at similar land uses must be conducted or referenced.
- I. Rate Sums - Any significant difference between the sums of single-use rates and proposed mixed-use estimates must be justified in the study report.
- J. Explanations Required - The reasoning and data used in developing a trip generation rate for special/unusual generators must be justified and explained in the report.
- K. Definition of Influence Area - Prior to trip distribution of site-generated trips, an influence area must be defined which contains eighty (80%) percent or more of the trip ends that will be attracted to the development. A market study can be used to establish the limits of an influence area, if available. If no market study is available, an influence area should be estimated based on a reasonable documented estimate. The influence area can also be based on a reasonable maximum convenient travel time to the site, or delineating area boundaries based on locations of competing developments.

Other methods such as using trip data from an existing development with similar characteristics or using an existing origin-destination survey of trips within the area can be used in place of the influence area to delineate the boundaries of the impact.

- L. Estimates of Trip Distribution Required - Trip distribution can be estimated using any one of the following three methods:
  1. Analogy
  2. Trip distribution model

### 3. Surrogate data

Whichever method is used, trip distribution must be estimated and analyzed for the horizon year. A multi-use development may require more than one distribution and coinciding assignment for each phase (for example, residential and retail phases on the same site). Consideration must also be given to whether inbound and outbound trips will have similar distributions.

- M. Trip Assignments - Assignments must be made considering logical routings, available roadway capacities, left turns at critical intersections, and projected (and perceived) minimum travel times. In addition, multiple paths should often be assigned between origins and destinations to achieve realistic estimates rather than assigning all of the trips to the route with the shortest travel time. The assignments must be carried through the external site access points and in large projects (those producing five hundred (500) or more additional peak direction trips to or from the site during the development's peak hour) through the internal roadways. When the site has more than one access driveway, logical routing and possibly multiple paths should be used to obtain realistic driveway volumes. The assignment should reflect conditions at the time of the analysis. Assignments can be accomplished either manually or with applicable computer models.

If a thorough analysis is required to account for pass-by trips, the following procedure should be used:

1. Determine the percentage of pass-by trips in the total trips generated.
2. Estimate a trip distribution for the pass-by trips.
3. Perform two separate trip assignments, based on the new and pass-by trip distributions.
4. Combine the pass-by and new trip assignment.

Upon completion of the initial site traffic assignment, the results should be reviewed to see if the volumes appear logical given characteristics of the road system and trip distribution. Adjustments should be made if the initial results do not appear to be logical or reasonable. These adjustments should be clarified in the study.

- N. Total Traffic Impacts - Traffic estimates for any site with current traffic activity must reflect not only new traffic associated with the site's redevelopment, but also the trips subtracted from the traffic stream because of the removal of a land use. The traffic impact report should clearly depict the total traffic estimate and its components.



- O. Capacity Analysis - Capacity analysis must be performed at each of the major street and project site access intersection locations (signalized and unsignalized) within the study area. In addition, analyses must be completed for roadway segments, deemed sensitive to site traffic within the study area. These may include such segments as weaving sections, ramps, internal site roadways, parking facility access points, and reservoirs for vehicles queuing off site and on site. Other locations may be deemed appropriate depending on the situation.

The recommended level-of-service analysis procedures detailed in the most recent edition of the Highway Capacity Manual must be followed. The Planning Commission considers the overall level-of-service ratings A, B, C and D to be acceptable for signalized intersections (Levels C or better are considered desirable); level-of-service E or F is considered to be unacceptable. Other Capacity Software Programs will be considered on a case by case basis.

The operational analyses in the Highway Capacity Manual should be used for analyzing existing conditions, traffic impacts, access requirements, or other future conditions for which traffic, geometric, and control parameters can be established. Future condition year will be ten year minimum operation.

- P. Required Levels of Service - The recommendations of the traffic impact study shall provide safe and efficient movement of traffic to and from and within and past the proposed development, while minimizing the impact to non-site trips. The current levels of service must be maintained if they are C or D, not allowed to deteriorate to worse than C if they are currently A or B, and improved to D if they are E or F. The overall goal of this section will be to detail necessary improvements to the study area roadway network which will provide for a level of service for the design year(s) with the development which is at least equivalent to the projected level of service for the design year(s) without the proposed development.

- Q. Documentation Required - A traffic impact study report shall be prepared to document the purpose, procedures, findings, conclusions, and recommendations of the study.

1. The documentation for a traffic impact study shall include, at a minimum:
  - a. Study purpose and objectives.
  - b. Description of the site and study area.
    - P. Existing conditions in the area of the development.
    - Q. Recorded or approved nearby development.

- R. Trip generation, trip distribution, and modal split.
- S. Projected future traffic volumes (10 year).
- T. An assessment of the change in roadway operating conditions resulting from the development traffic.
  - h. Recommendations for site access and transportation improvements needed to maintain traffic flow to, from, within, and past the site at an acceptable level of service.
- 2. The analysis shall be presented in a straight forward and logical sequence. It shall lead the reader step-by-step through the various stages of the process and resulting conclusions and recommendations.
- 3. Data shall be presented in tables, graphs, maps, and diagrams wherever possible for clarity and ease of review.
- 5. The recommendations shall specify the time period within which the improvements should be made (particularly if the improvements are associated with various phases of the development construction), and any monitoring of operating conditions and improvements that may be required.
- 6. To facilitate examination by the Township Planning Commission, an executive summary of one or two pages shall be provided, concisely summarizing the purpose, conclusions, and recommendations.
- 7. The report documentation outlined above provides a framework for site traffic access/impact study reports. Some studies will be easily documented using this outline. However, the specific issues to be addressed, local study requirements, and the study results may warrant additional sections.
- R. At the direction of the Township and Engineer other additional analysis such as Queue Length Analysis and traffic signal warrant analysis from PENNDOT Publication 282, latest addition. May be required to be completed and submitted.

## ARTICLE 13 - COMMERCIAL OR INDUSTRIAL DEVELOPMENTS

### 1301. APPLICATION

- A. Proposed subdivisions or developments of land that contain areas reserved for commercial or industrial uses, or that contain lots or parcels fronting on existing or proposed major traffic streets will be subject to individual review and determination in each case. In general, however, the Township Supervisors will apply all of the standards in Articles 11 and 12 and the following requirements.

### 1302. COMMERCIAL AND INDUSTRIAL SUBDIVISIONS

- A. Size. Approval of lot or parcel size will be determined by the following factors:
  - 1. The total area shall be sufficient to provide adequate space for off-street parking and loading, landscaping and other facilities. In no instance shall there be less than four (4) square feet of off-street parking for each one (1) square foot of building use.
  - 2. Whenever possible, commercial parcels should include enough land to provide for a group of commercial establishments, planned, developed, owned and managed as a unit. In no case will narrow, highway ribbon developments be approved.
- B. Street System
  - 1. Traffic movements in and out of commercial and industrial areas should not interfere with external traffic, nor should it create hazards for adjacent residential areas.
  - 2. The design of streets, service drives, and pedestrian ways should provide for safe and hazard free internal circulation.
- C. Setback - Building setback lines shall be as specified by the Branch Township Zoning Ordinance.
- D. Utilities
  - 1. Where possible, commercial and industrial subdivisions should be located close to public utilities. In all cases, subdivisions should be provided with

such utilities as are necessary to maintain adequate health standards and to dispose of commercial and industrial wastes.

E. Location

1. In general, commercial and industrial subdivisions should be located adjacent or close to major highways and transportation facilities.
2. Commercial and industrial subdivisions may not be located in predominately residential areas or areas that are better suited to residential development. A commercial parcel designed as an integral part of a residential subdivision will be permitted; provided that said site shall be in conformance with the Branch Township Zoning Ordinance.

F. Site Development

1. Commercial and industrial sites shall be designed so as to provide maximum protection to adjacent residential properties and shall consist of not less than: an eight foot (8') high fence of permanent character, maintained at all times and free from any advertising materials of any type; lighting so as to be readily visible for police protection; and of such character of construction as to prevent any unreasonable decay or deterioration of said structures.

## ARTICLE 14 – MOBILE HOME PARK

### 1401. MOBILE HOME PARKS

- A. Application - For the purpose of these regulations, all mobile home courts, as defined in Article 2 hereof, shall be subject to all of the specifications of Article 11 and 12 and the following requirements.
- B. Spacing of Mobile Home Units - No mobile home shall be located closer than twenty-five feet (25') to any portion of any other mobile home or permanent building in the Mobile Home Park.
- C. General Standards and Requirements
  - 1. All mobile home parks shall be located on land where the average natural slope of the area of the site intended for development shall not exceed twelve percent (12%).
  - 2. All mobile home parks shall have centralized sewer and water.
  - 3. All mobile home parks shall have a twenty foot (20') wide planter buffer yard around the perimeter of the site. The buffer yard shall be provided in accordance with Section 1129.C. No home shall be placed within twenty-five feet (25') of a perimeter property line of the tract, or thirty feet (30') from an abutting public street right-of-way.
  - 4. No proposed homes within the proposed mobile home park shall be placed in flood prone or flood hazard areas. The proposed mobile home park shall have access to paved public streets or roads.
  - 5. All mobile homes shall be constructed in accordance with the Safety and Construction Standards of the US Department of Housing and Urban Development.
  - 6. The mobile home park shall be in conformance with all applicable provisions of the Branch Township Zoning Ordinance, except for those requirements specifically outlined herein.
- D. Site Location
  - 1. All mobile home courts shall be located on high and well drained lands and

shall have not less than a total land area of ten (10) acres and a maximum overall density of no more than five (5) mobile homes per acre.

2. All mobile home courts shall have paved access roads to and from any such site and in no instance shall such sites be in conflict with any other Ordinance of the Township.

E. Minimum Site Improvement. Minimum site improvements for all mobile home courts shall include, but shall not be limited to the following:

1. Streets

- a. All streets within any mobile home court shall not have less than a fifty foot (50') right-of-way with a paved width of not less than thirty-three feet (33') and shall meet minimum paving thickness and other requirements as set out in Article 11 hereof for minor streets. All streets shall be properly drained and shall be kept free of debris or other obstructions to provide clear access for fire, police, or other emergency access.

2. Open Space

- a. All mobile home courts shall provide not less than twenty-five percent (25%) of the total land area for public open space purposes and such lands shall be improved whereby the same will be accessible to all families within said tract and whereby such open space may be used for recreational purposes.
- b. At least one-half (1/2) of the required common open space shall consist of areas of adequate size, shape, slope, soil type, and other physical characteristics suitable for outdoor passive and active recreational use or be improved to ensure suitability for such use.
- c. The area provided for common open space shall be in addition to the required buffer yard around the perimeter of the mobile home park.

3. Parking

- a. Every mobile home space shall be provided with a minimum of two (2) paved off-street parking spaces, with a minimum width of ten feet (10') and a minimum length of twenty feet (20') per parking space.
- b. Parking courts may be used to meet the off-street parking requirements. All parking courts shall be located in close proximity

to the mobile homes.

- c. These parking areas shall have the same pavement depths as the streets.

4. Utility Improvements. All mobile home courts shall provide to each lot line a continuing supply of safe and palatable water as approved by the Pennsylvania Department of Environmental Protection as well as a sanitary sewerage disposal system in accordance with and approved by the Pennsylvania Department of Environmental Protection.

5. Other Site Improvements

- a. There shall be provided in each mobile home court such other improvements as the Township Supervisors may require whereby such requirements shall at all times be in the best interests of the public's health, safety, and general welfare and may include, but shall not be limited to, garbage and trash collection and disposal facilities and an adequate park lighting system.
- b. Every mobile home space shall be graded to provide a level, stable, and well-drained stand for the mobile home.
- c. Ten inch (10") diameter concrete piers, or equivalent, shall be installed from ground level to below the frost line (48 inches minimum) and shall be placed on ten feet (10') centers along each of the two main longitudinal frame sections for each section of the home. A concrete slab that covers the entire area beneath the unit consisting of concrete on a four inch (4") crushed stone base. Grouted concrete blocks shall be used to support the home on the concrete piers and wood shims may be used for final leveling.
- d. Every mobile home in the park shall be enclosed from the bottom of the mobile home to the ground or stand using industry-approved skirting material compatible with the home.
- e. Every mobile home space in the mobile home park shall be provided with connections to an adequate supply of potable water and to a centralized sewage disposal system which conforms to the standards required in Article 11 of this Ordinance.
- f. Every space shall be provided with underground electric, telephone, and television cable (if available) service.

- g. All fuel storage and supply systems may be underground and shall be constructed and maintained in conformity with the regulations of all authorities having jurisdiction, or if above ground shall adequately be screened with landscaping or a screen wall compatible with the home.
- h. Every mobile home shall be securely anchored or tied-down on at least the four (4) corners and also in accordance with the manufacturers recommendations furnished with each home.

F. Uses Fronting on Major Traffic Streets

- 1. Service Streets. Where a non-residential subdivision fronts or abuts a major street as defined in Article 2, the Township Supervisors may require a service street approximately parallel to the major street at a distance suitable for the appropriate use of the intervening land.
- 2. Controlled Access
  - a. Entrances and exits to non-residential subdivisions shall be designed so as not to interfere with through traffic. In general, entrance and exit points shall not be located closer to one another than fifty feet (50'), and when combined, shall be restricted to one combined access point per one hundred feet (100'). Access points shall not exceed twenty-four feet (24') in width at any such point.
  - b. Access to mobile home spaces shall be from interior driveways, access drives, or private streets and shall not be from public streets or roads. Entrance roads shall have a paved cartway width of at least twenty-four feet (24') and access drives shall have a paved cartway width of at least twenty feet (20'). Access drives and driveways shall conform to the requirements of Section 1117.
  - c. All streets within the mobile home park shall be private and be maintained as part of the mobile home park. All construction shall conform to the requirements for streets contained in Section 1108.

- G. Provide copies of all deed restrictions and or maintenance plans for the said park.





# **APPENDICES**

**APPENDIX A**  
**RESOLUTION**

**APPENDIX A**

**RESOLUTION**

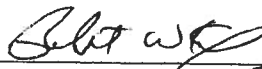
A Resolution by the Branch Township Supervisors providing for the control of the subdivision of land within the Township by requiring the submission and approval or review of all plans; establishing a procedure for review and approval; establishing minimum layout and design standards; requiring minimum improvements to be made by the subdivider; establishing a fee for processing plans; requiring filing and recording of all plans with the County Recorder of Deeds; establishing a uniform size and scale for plans to be recorded and establishing the method for recording; defining the dedication and acceptance of streets and roads; requiring a review and report on plans located in Branch Township, Schuylkill County by the Branch Township Planning Commission; and providing for penalties and remedies for violations of the provisions contained herein.

WHEREAS, Article XVI - Section 1671 of the Township Code of the Commonwealth of Pennsylvania as amended that the attached Subdivision and Land Development Ordinance are thereby adopted and the same shall be in effect from and after the date of adoption.

WHEREAS, it is the desire of the Branch Township Supervisors to establish a uniform system of regulations and a procedure of reviewing and approving subdivision plans as part of the Comprehensive Master Plan for Branch Township.

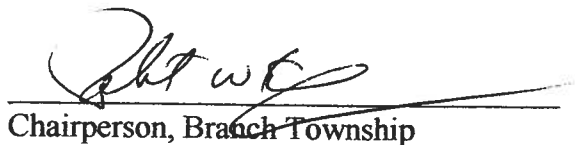
NOW, THEREFORE, BE IT RESOLVED, by the Township Supervisors of Branch Township, Schuylkill County, pursuant to Article 247, the Municipalities Planning Code of the Commonwealth of Pennsylvania, as amended, that the following Subdivision and Land Development Regulations are hereby adopted and shall be in effect from and after the date of adoption.

Passed and adopted this 22 nd day of November, 2004.



Township Supervisor Chairperson  
Branch Township

ATTEST   
Secretary, Branch Township

  
Chairperson, Branch Township

**APPENDIX B**

**APPLICATION FOR SUBDIVISION PLAN APPROVAL**

**APPENDIX B**

- Sketch
- Preliminary
- Final

**BRANCH TOWNSHIP**  
**SUBDIVISION REGULATIONS**

**APPLICATION FOR SUBDIVISION PLAN APPROVAL**

1. NAME OF SUBDIVISION: \_\_\_\_\_
  
2. NAME & ADDRESS OF PROPERTY OWNER(S):  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_
  
3. NAME & ADDRESS OF DEVELOPER/APPLICANT:  
(If Other Than Owner) \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_
  
4. LOCATION OF SUBDIVISION:  
\_\_\_\_\_  
Street Address (If Any)  
\_\_\_\_\_  
Tax Map No.                      Parcel No.  
\_\_\_\_\_  
Deed Book No.                      Page No.  
\_\_\_\_\_
  
5. NAME & ADDRESS OF PROFESSIONAL  
RESPONSIBLE FOR THE PLAN:  
\_\_\_\_\_  
Company Name  
\_\_\_\_\_  
Contact Person  
\_\_\_\_\_  
Mailing Address  
\_\_\_\_\_  
Telephone No.  
\_\_\_\_\_  
Email Address
  
6. TOTAL ACREAGE TO BE SUBDIVIDED: \_\_\_\_\_ ACRES
  
7. NUMBER OF LOTS PROPOSED (including residue): \_\_\_\_\_

8. NUMBER OF LOTS TO BE DEVELOPED: \_\_\_\_\_

LOTS / ACRE: \_\_\_\_\_

9. TYPE OF DEVELOPMENT: \_\_\_\_\_ SINGLE FAMILY  
(Check Applicable Box(s)) \_\_\_\_\_ MULTI-FAMILY (TOWNHOUSE)  
\_\_\_\_\_ COMMERCIAL  
\_\_\_\_\_ INDUSTRIAL  
\_\_\_\_\_ NOT FOR DEVELOPMENT  
\_\_\_\_\_ ANNEXATION  
\_\_\_\_\_ OTHER (SPECIFY)  
\_\_\_\_\_  
\_\_\_\_\_

10. TYPE OF WATER SYSTEM:  
(Check Applicable Box(s))
- |                                | <u>Existing</u> | <u>Proposed</u> |
|--------------------------------|-----------------|-----------------|
| PUBLIC (MUNICIPAL) SYSTEM      | _____           | _____           |
| SEMI-PUBLIC (COMMUNITY) SYSTEM | _____           | _____           |
| INDIVIDUAL ON-SITE             | _____           | _____           |

11. TYPE OF SANITARY SEWER SYSTEM:  
(Check Applicable Box(s))
- |                                | <u>Existing</u> | <u>Proposed</u> |
|--------------------------------|-----------------|-----------------|
| PUBLIC (MUNICIPAL) SYSTEM      | _____           | _____           |
| SEMI-PUBLIC (COMMUNITY) SYSTEM | _____           | _____           |
| INDIVIDUAL ON-SITE             | _____           | _____           |

12. ZONING CLASSIFICATION: \_\_\_\_\_

13. PROPOSED IMPROVEMENTS, IF ANY:  
(Check Applicable Box(s))
- \_\_\_\_\_ STREETS
  - \_\_\_\_\_ WATER SYSTEM
  - \_\_\_\_\_ SANITARY SEWER SYSTEM
  - \_\_\_\_\_ STORMWATER SYSTEM
  - \_\_\_\_\_ SIDEWALKS/CURBS
  - \_\_\_\_\_ OTHER UTILITIES
  - \_\_\_\_\_ NOT APPLICABLE

14. ATTACHMENTS AND ENCLOSURES: \_\_\_\_\_ APPENDIX B-APPLICATION FOR SUBDIVISION PLAN APPROVAL
- \_\_\_\_\_ SUBDIVISION PLAN (8 COPIES)
- \_\_\_\_\_ APPENDIX C.1 - BOUNDARY LINE ADJUSTMENT CHECKLIST
- \_\_\_\_\_ APPENDIX C.2 - MINOR SUBDIVISION FINAL PLAN CHECKLIST
- \_\_\_\_\_ APPENDIX C.3 - MAJOR SUBDIVISION PRELIMINARY PLAN CHECKLIST
- \_\_\_\_\_ APPENDIX C.4 - MAJOR SUBDIVISION FINAL PLAN CHECKLIST
- \_\_\_\_\_ DEED RESTRICTIONS (IF ANY)
- \_\_\_\_\_ IMPROVEMENT AGREEMENTS (IF ANY)
- \_\_\_\_\_ OTHER (SPECIFY)
- \_\_\_\_\_
- \_\_\_\_\_

15. CERTIFICATION: THE UNDERSIGNED HEREBY REPRESENTS THAT TO THE BEST OF HIS (THEIR) KNOWLEDGE AND BELIEF, ALL INFORMATION LISTED AND ATTACHED HERETO IS TRUE, CORRECT, AND COMPLETE.

SIGNATURE OF OWNER(S) OR APPLICANT(S)

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

DATE



**FOR TOWNSHIP USE ONLY**

1. RECEIVED BY PLANNING COMMISSION: \_\_\_\_\_  
Date \_\_\_\_\_  
Fee Paid \_\_\_\_\_  
Secretary Signature \_\_\_\_\_

2. REVIEWED BY PLANNING COMMISSION: \_\_\_\_\_  
Date \_\_\_\_\_

3. PLANNING COMMISSION ACTION:

\_\_\_\_\_ Approved  
Date \_\_\_\_\_

\_\_\_\_\_ Approved Subject to the Following Modifications:  
Date \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

\_\_\_\_\_ Disapproved for the Following Reasons:  
Date \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

ATTEST:

\_\_\_\_\_  
Secretary, Township Planning Commission

\_\_\_\_\_  
Chairperson, Township Planning Commission

4. REVIEWED BY TOWNSHIP SUPERVISORS: \_\_\_\_\_  
Date

5. TOWNSHIP SUPERVISORS ACTION:

\_\_\_\_\_ Approved  
Date

\_\_\_\_\_ Approved Subject to the Following Modifications:  
Date \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

\_\_\_\_\_ Disapproved for the Following Reasons:  
Date \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

ATTEST:

\_\_\_\_\_  
Chairperson, Township Planning Commission

\_\_\_\_\_  
Secretary, Township Supervisors

\_\_\_\_\_  
Chairperson, Branch Township

**APPENDIX C.1 – BOUNDARY LINE ADJUSTMENT CHECKLIST**

**APPENDIX C.2 – MINOR SUBDIVISION FINAL PLAN CHECKLIST**

**APPENDIX C.3 – MAJOR SUBDIVISION OR LAND  
DEVELOPMENT PRELIMINARY PLAN CHECKLIST**

**APPENDIX C.4 – MAJOR SUBDIVISION OR LAND  
DEVELOPMENT FINAL PLAN CHECKLIST**

**APPENDIX C**

**BRANCH TOWNSHIP SUBDIVISION REGULATIONS**

**C.1 BOUNDARY LINE ADJUSTMENT  
CHECKLIST**

YES      NO      N/A

\_\_\_      \_\_\_      \_\_\_  
\_\_\_      \_\_\_      \_\_\_  
\_\_\_      \_\_\_      \_\_\_  
\_\_\_      \_\_\_      \_\_\_  
\_\_\_      \_\_\_      \_\_\_

**GENERAL SUBMISSION ITEMS - Does the submission include:**

1. Two (2) copies of completed Application Form?
2. Two (2) copies of the Checklist?
3. Ten (10) copies of Final Plan (prints)?
4. Four (4) sets of Supportive Documents?
5. The required fee (in accordance with Township Fee Schedule)?

**SPECIFIC PLAN REQUIREMENTS**

Drafting Standards - Does the Plan have:

\_\_\_      \_\_\_      \_\_\_  
\_\_\_      \_\_\_      \_\_\_  
\_\_\_      \_\_\_      \_\_\_  
\_\_\_      \_\_\_      \_\_\_  
\_\_\_      \_\_\_      \_\_\_

6. Drawings at a size no larger than 24" x 36"?
7. A scale of 1"=50', 1"=100' or other approved scale?
8. Dimensions set in feet and decimal part thereof and bearings in degrees, minutes and seconds?
9. Sheets numbered and show relationship to the total number of sheets?
10. Revisions noted, if Plan is a revision of previously approved Plan?

General Information - Does the Plan have:

\_\_\_      \_\_\_      \_\_\_  
\_\_\_      \_\_\_      \_\_\_  
\_\_\_      \_\_\_      \_\_\_  
\_\_\_      \_\_\_      \_\_\_  
\_\_\_      \_\_\_      \_\_\_  
\_\_\_      \_\_\_      \_\_\_  
\_\_\_      \_\_\_      \_\_\_  
\_\_\_      \_\_\_      \_\_\_  
\_\_\_      \_\_\_      \_\_\_  
\_\_\_      \_\_\_      \_\_\_

11. Name and location of line adjustment?
12. Names and addresses of:
  - landowner?
  - developer?
  - adjoining property owners?
13. Owners Statement of Intended Use?
14. Names, addresses, signatures, and seals of the licensed engineer and/or surveyor?
15. Approval/review signature blocks for:
  - Township Planning Commission?
  - Township Supervisors?
  - County Planning Commission?
  - Recorder of Deeds?

YES	NO	N/A	
___	___	___	16. Location Map at a suitable scale showing the relationship of the site to adjoining properties and streets?
___	___	___	17. Graphic and/or written scale?
___	___	___	18. North arrow?
___	___	___	19. Date of plan and all subsequent revision dates?
___	___	___	20. Boundaries of all adjoining properties with names of landowners, and Deed Book Volume and page numbers?
___	___	___	21. The Deed Book volume and page number, as entered by the County Recorder, referencing the latest source of title to the land being subdivided?
___	___	___	22. Tax map sheet, block and lot number for the tract being subdivided?
___	___	___	23. Signed Owners Affidavit?
___	___	___	24. Notarized consent for the subdivision executed by the Owner or Equitable Owner?
___	___	___	25. Lot size(s) in acres?
___	___	___	26. All monuments illustrated, indicating set or found?
___	___	___	27. Rewritten deed(s)?

Zoning Requirements - Does the Plan include the following zoning information:

___	___	___	28. Applicable zoning district?
___	___	___	29. Lot size and yard requirements?
___	___	___	30. Building setback line or building placement?

CERTIFICATION OF ACCURACY

I, \_\_\_\_\_, HEREBY CERTIFY THAT THE PLAT SHOWN AND DESCRIBED HEREON AS WELL AS ALL DRAWINGS BEARING MY SEAL ARE TRUE AND CORRECT AS TO ACCURACY AS REQUIRED BY THE BRANCH TOWNSHIP AND WERE PREPARED BY ME OR UNDER MY DIRECTION AND FOR WHICH I ACCEPT FULL RESPONSIBILITY, AND THAT THE PERIMETER MONUMENTS HAVE BEEN ACCURATELY PLACED AS REQUIRED.

\_\_\_\_\_  
DATE

\_\_\_\_\_  
SIGNATURE OF THE PROFESSIONAL RESPONSIBLE FOR THE PREPARATION OF THE PLAN

NOTE: THIS CHECKLIST IS BEING PROVIDED FOR THE CONVENIENCE OF THE APPLICANT. COMPLIANCE WITH THE CHECKLIST ITEMS DOES NOT GUARANTEE SUBDIVISION PLAN APPROVAL. IT IS THE RESPONSIBILITY OF THE APPLICANT TO ASSURE COMPLIANCE WITH ALL APPLICABLE SECTIONS OF THE REGULATIONS.

**BRANCH TOWNSHIP SUBDIVISION REGULATIONS**

**C.2 MINOR SUBDIVISION**

**FINAL PLAN CHECKLIST**

YES      NO      N/A

**GENERAL SUBMISSION ITEMS - Does the submission include:**

- |     |     |     |    |   |
|-----|-----|-----|----|---|
| ___ | ___ | ___ | 1. | Two (2) copies of completed Application Form?   |
| ___ | ___ | ___ | 2. | Two (2) copies of Final Plan Checklist?   |
| ___ | ___ | ___ | 3. | Ten (10) copies of Final Plan (prints)?   |
| ___ | ___ | ___ | 4. | Four (4) sets of Supportive Documents?  |
| ___ | ___ | ___ | 5. | Approval letter from PennDOT and Highway Occupancy Permit and notice on Plan (if applicable)? |
| ___ | ___ | ___ | 6. | Review letter from Soil Conservation District?  |
| ___ | ___ | ___ | 7. | The required fee (in accordance with Township Fee Schedule)?                                  |
| ___ | ___ | ___ | 8. | Planning Module(s)  |

**SPECIFIC PLAN REQUIREMENTS**

**Drafting Standards - Does the Plan have:**

- |     |     |     |     |   |
|-----|-----|-----|-----|---|
| ___ | ___ | ___ | 8.  | Drawings at a size no larger than 24" x 36"?  |
| ___ | ___ | ___ | 9.  | A scale of 1"=50', 1"=100' or other approved scale?   |
| ___ | ___ | ___ | 10. | Dimensions set in feet and decimal part thereof and bearings in degrees, minutes and seconds? |
| ___ | ___ | ___ | 11. | Sheets numbered and show relationship to the total number of sheets?                          |
| ___ | ___ | ___ | 12. | Revisions noted, if Plan is a revision of previously approved Plan?                           |

**General Information - Does the Plan have:**

- |     |     |     |     |  |
|-----|-----|-----|-----|--|
| ___ | ___ | ___ | 13. | Name of Subdivision?   |
| ___ | ___ | ___ | 14. | Names and addresses of:  |
| ___ | ___ | ___ |     | • landowner?   |
| ___ | ___ | ___ |     | • developer?   |
| ___ | ___ | ___ |     | • adjoining property owners?   |
| ___ | ___ | ___ | 15. | Owners Statement of Intended Use of Subdivided Lot?  |
| ___ | ___ | ___ | 16. | Names, addresses, signatures and seals of the licensed engineer and/or surveyor?   |
| ___ | ___ | ___ | 17. | Approval/review signature blocks for:  |
| ___ | ___ | ___ |     | • County Planning Commission?  |
| ___ | ___ | ___ |     | • Township Planning Commission?  |
| ___ | ___ | ___ |     | • Township Supervisors?  |
| ___ | ___ | ___ |     | • Recorder of Deeds?   |
| ___ | ___ | ___ | 18. | Location Map at a suitable scale showing the relationship of the site to adjoining properties and streets within one thousand (1000') feet, and all zoning district and municipal boundaries within one thousand (1000') feet? |
| ___ | ___ | ___ | 19. | Graphic and/or written scale?  |
| ___ | ___ | ___ | 20. | North arrow?   |
| ___ | ___ | ___ | 21. | Date of plan and all subsequent revision dates?  |
| ___ | ___ | ___ | 22. | Boundaries of all adjoining properties with names of landowners, tax numbers, Deed Book Volume and page numbers?   |

YES NO N/A

- |     |     |     |     |   |
|-----|-----|-----|-----|---|
| ___ | ___ | ___ | 23. | The Deed Book Volume and page number, as entered by the County Recorder, referencing the latest source of title to the land being subdivided? |
| ___ | ___ | ___ | 24. | Tax map sheet, block and lot number for the tract being subdivided?   |
| ___ | ___ | ___ | 25. | Signed Owners Affidavit?  |
| ___ | ___ | ___ | 26. | Notarized consent for the subdivision executed by the Owner or Equitable Owner?   |

Natural Features - Does the Plan have the location of the following natural features on the site and within 100 feet of the site:

- |     |     |     |     |   |
|-----|-----|-----|-----|---|
| ___ | ___ | ___ | 27. | Contour lines as required with elevation datum indicated?   |
| ___ | ___ | ___ | 28. | Watercourses, lakes, flood-prone, or flood-plain areas and wetlands with names, if any? Also, drainage easement where applicable? |
| ___ | ___ | ___ | 29. | Rock outcrops, stone fields, or other significant topographical features?   |

Boundary Lines of Tract - Does the Plan show:

- |     |     |     |     |  |
|-----|-----|-----|-----|--|
| ___ | ___ | ___ | 30. | Boundary lines of the area being subdivided with bearings and distances? |
| ___ | ___ | ___ | 31. | Location and type of all existing monuments?                             |

Man-Made Features - Does the Plan include the location of the following man-made features on the site and within 100 feet of the site:

- |     |     |     |     |   |
|-----|-----|-----|-----|---|
| ___ | ___ | ___ | 32. | Sufficient bearings, length of lines, radii, arc lengths, street widths, right-of-way and easement widths of all lots, streets, rights-of-way, easements, and community or public areas to accurately and completely reproduce each and every course on the ground? |
| ___ | ___ | ___ | 33. | Existing lot layout on the site?  |
| ___ | ___ | ___ | 34. | Historic sites or structures, including name and description?   |
| ___ | ___ | ___ | 35. | Sewer lines, stormwater drains and culverts, including but not limited to water lines and electric lines? Also, the size and invert elevation of all sewers, including location of manholes, inlets and culverts?   |
| ___ | ___ | ___ | 36. | Minimum utility easements and restrictive covenants and easements for purposes which might affect development?  |

Zoning Requirements - Does the Plan include the following zoning information:

- |     |     |     |     |  |
|-----|-----|-----|-----|--|
| ___ | ___ | ___ | 37. | Applicable zoning district?                  |
| ___ | ___ | ___ | 38. | Lot size and yard requirements?              |
| ___ | ___ | ___ | 39. | Building setback line or building placement? |

Proposed Layout - Does the Plan include the following items and information regarding the proposed layout:

- |     |     |     |     |  |
|-----|-----|-----|-----|--|
| ___ | ___ | ___ | 40. | Area in acres of parent tract, each subdivided lot and residue?          |
| ___ | ___ | ___ | 41. | Proposed lot layout with identification number and total number of lots? |
| ___ | ___ | ___ | 42. | Lot width, depth and area?   |

YES	NO	N/A	
___	___	___	43. Rights-of-way, restrictive covenants and easements for all drainage, utilities and other purposes which might affect development, with designations of areas to be dedicated to the Township?
___	___	___	44. Well location?
___	___	___	45. Primary leach field?
___	___	___	46. Soil probe location?
___	___	___	47. Percolation test location?
___	___	___	48. Storm drainage facilities or structures?
___	___	___	49. Private deed restrictions already imposed or to be imposed as a condition to sale?
___	___	___	50. All lots shall front on a public street?
___	___	___	51. Lots for annexation or not for further development shall be so noted.
___	___	___	52. A note identifying by lot number the subdivided lots without adequate street frontage that cannot be further subdivided.

SUPPORTIVE DOCUMENTS AND INFORMATION - Are the following items included in the submission:

___	___	___	53. Residual lands sketch?
___	___	___	54. Current deed of tract being subdivided?
___	___	___	55. Type of water system proposed with a letter of approval from the governing water authority when public water is proposed?
___	___	___	56. Type of sanitary sewer system proposed with a letter of approval from the governing sewer authority when public sewage is proposed?

**CERTIFICATION OF ACCURACY**

I, \_\_\_\_\_, HEREBY CERTIFY THAT THE PLAT SHOWN AND DESCRIBED HEREON AS WELL AS ALL DRAWINGS BEARING MY SEAL ARE TRUE AND CORRECT AS TO ACCURACY AS REQUIRED BY THE BRANCH TOWNSHIP AND WERE PREPARED BY ME OR UNDER MY DIRECTION AND FOR WHICH I ACCEPT FULL RESPONSIBILITY, AND THAT THE PERIMETER MONUMENTS HAVE BEEN ACCURATELY PLACED AS REQUIRED.

\_\_\_\_\_  
DATE

\_\_\_\_\_  
SIGNATURE OF THE PROFESSIONAL RESPONSIBLE FOR THE PREPARATION OF THE PLAN

**NOTE:** THIS CHECKLIST IS BEING PROVIDED FOR THE CONVENIENCE OF THE APPLICANT. COMPLIANCE WITH THE CHECKLIST ITEMS DOES NOT GUARANTEE SUBDIVISION PLAN APPROVAL. IT IS THE RESPONSIBILITY OF THE APPLICANT TO ASSURE COMPLIANCE WITH ALL APPLICABLE SECTIONS OF THE REGULATIONS.



**BRANCH TOWNSHIP SUBDIVISION REGULATIONS**

**C.3 MAJOR SUBDIVISION  
PRELIMINARY PLAN CHECKLIST**

YES      NO      N/A

**GENERAL SUBMISSION ITEMS - Does the submission include:**

- |     |     |     |    |  |
|-----|-----|-----|----|--|
| ___ | ___ | ___ | 1. | Two (2) copies of completed Application Form?                |
| ___ | ___ | ___ | 2. | Two (2) copies of Preliminary Plan Checklist?                |
| ___ | ___ | ___ | 3. | Ten (10) copies of Preliminary Plan (prints)?                |
| ___ | ___ | ___ | 4. | Four (4) sets of Supportive Documents?                       |
| ___ | ___ | ___ | 5. | Review letter from Soil Conservation District?               |
| ___ | ___ | ___ | 6. | Review letter from PENNDOT (if applicable)?                  |
| ___ | ___ | ___ | 7. | Review letter from appropriate Utility Companies?            |
| ___ | ___ | ___ | 8. | The required fee (in accordance with Township Fee Schedule)? |

**SPECIFIC PLAN REQUIREMENTS**

**Drafting Standards for All Plans - Do the Plans have:**

- |     |     |     |     |   |
|-----|-----|-----|-----|---|
| ___ | ___ | ___ | 9.  | Plan drawings at a size no larger than 24" x 36"?   |
| ___ | ___ | ___ | 10. | A scale of 1"=50', 1"=100' or other approved scale?   |
| ___ | ___ | ___ | 11. | Profiles drawn at a vertical scale of: <ul style="list-style-type: none"> <li>• Five (5') feet per inch or ten (10') feet per inch (for horizontal scale of 1"=50'),</li> <li>• Ten (10') feet per inch (for horizontal scale of 1"=100'), or</li> <li>• Other approved scale?</li> </ul> |
| ___ | ___ | ___ | 12. | Dimensions set in feet and decimal part thereof and bearings in degrees, minutes and seconds?   |
| ___ | ___ | ___ | 13. | Sheets numbered and show relationship to the total number of sheets?  |
| ___ | ___ | ___ | 14. | An adequate legend indicating clearly which features are existing and which are proposed?   |
| ___ | ___ | ___ | 15. | Revisions noted and dated?  |
| ___ | ___ | ___ | 16. | A boundary line shown as a heavy line?  |

**General Information Required on all Plans - Do the Plans have:**

- |     |     |     |     |  |
|-----|-----|-----|-----|--|
| ___ | ___ | ___ | 17. | A title "Preliminary Plan"?  |
| ___ | ___ | ___ | 18. | Sheet Title (e.g., "Layout Plan")?   |
| ___ | ___ | ___ | 19. | Name and location of subdivision or land development?  |
| ___ | ___ | ___ | 20. | Graphic and/or written scales?   |
| ___ | ___ | ___ | 21. | Date of Plan and all subsequent revision dates?  |
| ___ | ___ | ___ | 22. | Names and addresses, signatures and seals of Engineer's and Surveyor's Statement (see Appendix D) of the licensed engineer, surveyor, architect, or landscape architect responsible for preparation of the Plan? |

**INFORMATION REQUIRED ON ALL LAYOUT PLANS, GRADING AND STORM DRAINAGE PLANS, UTILITY PLANS AND EROSION AND SEDIMENTATION PLANS**

YES      NO      N/A

General Information - Do the Plans have:

- |     |     |     |     |  |
|-----|-----|-----|-----|--|
| ___ | ___ | ___ | 23. | North arrow?   |
| ___ | ___ | ___ | 24. | Site boundaries with closure of 1 in 10,000?                                     |
| ___ | ___ | ___ | 25. | Boundaries of all adjoining properties with names of landowners and tax numbers? |
| ___ | ___ | ___ | 26. | Location and type of existing monuments?   |

Natural Features - Do the Plans show:

- |     |     |     |     |  |
|-----|-----|-----|-----|--|
| ___ | ___ | ___ | 29. | Contour lines with elevation datum indicated?  |
| ___ | ___ | ___ | 30. | Generalized slope areas (15%-25%, over 25%)?   |
| ___ | ___ | ___ | 31. | Location and extent of various soil types with S.C.S. classification and DEP definitions for each? |
| ___ | ___ | ___ | 32. | Forested areas?  |
| ___ | ___ | ___ | 33. | Watercourses, lakes, flood-prone or flood-plain areas and wetlands (with names, if any)?           |

Man-Made Features - Do the Plans include the location of the following man-made features on the site being subdivided or developed:

- |     |     |     |     |  |
|-----|-----|-----|-----|--|
| ___ | ___ | ___ | 34. | Streets and rights-of-way (including name and right-of-way widths) on the site and on immediately adjacent tracts? |
| ___ | ___ | ___ | 35. | Existing lot layout on the site and on immediately adjacent tracts?  |
| ___ | ___ | ___ | 36. | Historic sites or structures, including name and description?  |
| ___ | ___ | ___ | 37. | Sewer lines, storm drains and culverts, including but not limited to water lines and electric lines?               |
| ___ | ___ | ___ | 38. | Bridges?   |
| ___ | ___ | ___ | 39. | Utility easements, restrictive covenants and easements for purposes which might affect development?                |

Proposed Features - Do the Plans show?

- |     |     |     |     |  |
|-----|-----|-----|-----|--|
| ___ | ___ | ___ | 40. | Layout of streets with centerlines, cartways and right-of-ways, and proposed names?  |
| ___ | ___ | ___ | 41. | Layout of lots with identification number?   |
| ___ | ___ | ___ | 42. | Building setback lines from all lot lines?   |
| ___ | ___ | ___ | 43. | The arrangement and use of buildings and parking areas in nonresidential developments and planned residential developments, with all necessary dimensions and number of parking spaces (elevations and perspective sketches of proposed buildings are encouraged)? |
| ___ | ___ | ___ | 44. | Rights-of-way, restrictive covenants, and easements for all drainage, utilities or other purposes which might affect development?  |

YES NO N/A

- |     |     |     |     |   |
|-----|-----|-----|-----|---|
| ___ | ___ | ___ | 45. | Sidewalks and pedestrian paths?                             |
| ___ | ___ | ___ | 46. | Open space areas?   |
| ___ | ___ | ___ | 47. | Recreation facilities?                                      |
| ___ | ___ | ___ | 48. | Lot size and yard requirements?                             |
| ___ | ___ | ___ | 49. | Applicable zoning district?                                 |
| ___ | ___ | ___ | 50. | All lots shall front on a public street.                    |
| ___ | ___ | ___ | 51. | Proposed monuments with reference to proposed improvements? |
| ___ | ___ | ___ | 52. | Well location?  |
| ___ | ___ | ___ | 53. | Primary leach field?  |
| ___ | ___ | ___ | 54. | Soil probe location?  |
| ___ | ___ | ___ | 55. | Percolation test location?                                  |

Layout Plan - Does the layout plan have:

- |     |     |     |     |   |
|-----|-----|-----|-----|---|
| ___ | ___ | ___ | 56. | Names and addresses of landowner?   |
| ___ | ___ | ___ | 57. | Names and addresses of developer?   |
| ___ | ___ | ___ | 58. | Names and addresses of adjoining property owners?   |
| ___ | ___ | ___ | 59. | Owners Statement of Acknowledgement?  |
| ___ | ___ | ___ | 60. | Approval/review signature blocks?   |
| ___ | ___ | ___ | 61. | Location map at a scale of 1"=2000' or larger showing the relation of the site to adjoining properties, streets, zoning district boundaries, and municipal boundaries within one thousand (1000') feet? |
| ___ | ___ | ___ | 62. | Project Summary List?   |

Proposed Features - Does the Layout Plan show:

- |     |     |     |     |  |
|-----|-----|-----|-----|--|
| ___ | ___ | ___ | 63. | Approximate dimensions, and areas of lots expressed in both square feet and acres? |
|-----|-----|-----|-----|--|

Streets

- |     |     |     |     |  |
|-----|-----|-----|-----|--|
| ___ | ___ | ___ | 64. | Cartway and right-of-way width?  |
| ___ | ___ | ___ | 65. | Centerline with bearings, distances, horizontal curve data and stations corresponding to the profile?                          |
| ___ | ___ | ___ | 66. | Right-of-way and curb lines with horizontal curve radii at intersections?  |
| ___ | ___ | ___ | 67. | Beginning and end of proposed construction?  |
| ___ | ___ | ___ | 68. | Tie-ins by courses and distances to intersection of all public roads, with their names and widths of cartway and right-of-way? |

Grading and Storm Drainage Plan - Does the Plan indicate:

- |     |     |     |     |  |
|-----|-----|-----|-----|--|
| ___ | ___ | ___ | 69. | Existing and proposed contour lines at intervals of five (5') feet (if slope is between 0% and 15%) and ten (10') feet (if slope is over 15%)? |
| ___ | ___ | ___ | 70. | Street centerline data and stations corresponding to the profile?  |

YES NO N/A

Storm Drainage

- |     |     |     |     |  |
|-----|-----|-----|-----|--|
| ___ | ___ | ___ | 71. | Location and size of facilities with stations corresponding to the profile?                          |
| ___ | ___ | ___ | 72. | Location of inlets with invert elevation of flow line and grade at the top of each inlet?            |
| ___ | ___ | ___ | 73. | Watershed areas for each drainage structure or swale?  |
| ___ | ___ | ___ | 74. | Property lines and ownership, with details of easements where required?                              |
| ___ | ___ | ___ | 75. | Beginning and end of proposed construction?  |
| ___ | ___ | ___ | 76. | Location of all other drainage facilities and public utilities in the vicinity of storm drain lines? |
| ___ | ___ | ___ | 77. | Hydraulic design standards for culverts, bridge structures and/or other storm facilities?            |
| ___ | ___ | ___ | 78. | Location and size of proposed drainage swales?   |

Utility Plan - Does the Utility Plan show:  
(If on-lot sanitary sewage disposal systems are proposed?)

- |     |     |     |     |   |
|-----|-----|-----|-----|---|
| ___ | ___ | ___ | 79. | Existing and proposed contour lines at intervals of five (5') feet (if slope is between 0% and 15%) or ten (10') feet (if slope is over 15%)? |
| ___ | ___ | ___ | 80. | Proposed location of wells?   |
| ___ | ___ | ___ | 81. | Proposed or typical location of dwelling?   |
| ___ | ___ | ___ | 82. | Proposed location of subsurface disposal field?   |
| ___ | ___ | ___ | 83. | Location of percolation test holes and soil probe pit?  |

(If centralized sanitary sewers are proposed?)

- |     |     |     |     |   |
|-----|-----|-----|-----|---|
| ___ | ___ | ___ | 84. | Location and size of line with stations corresponding to the profile?                                   |
| ___ | ___ | ___ | 85. | Location of manholes with invert elevation of flow line and grade at the top of each manhole?           |
| ___ | ___ | ___ | 86. | Property lines and ownership, with details of easements where required?                                 |
| ___ | ___ | ___ | 87. | Beginning and end of proposed construction?   |
| ___ | ___ | ___ | 88. | Location of laterals?   |
| ___ | ___ | ___ | 89. | Location of all other drainage facilities and public utilities in the vicinity of sanitary sewer lines? |

(If centralized water system is being proposed?)

- |     |     |     |     |                                   |
|-----|-----|-----|-----|-----------------------------------|
| ___ | ___ | ___ | 90. | Location and size of waterline?   |
| ___ | ___ | ___ | 91. | Plans pertaining to water source? |
| ___ | ___ | ___ | 92. | Fire hydrants?                    |

(If on-lot water system is being proposed?)

- |     |     |     |     |  |
|-----|-----|-----|-----|--|
| ___ | ___ | ___ | 93. | Location of all wells (existing and proposed)? |
| ___ | ___ | ___ | 94. | Street lighting?                               |

YES NO N/A

Erosion and Sedimentation Plan (If required) - Does the Plan:

- |     |     |     |  |
|-----|-----|-----|--|
| ___ | ___ | ___ | 95. Comply with D.E.P. Soil Erosion and Sedimentation Control Manual and regulations of the Schuylkill County Conservation District? |
| ___ | ___ | ___ | 96. Use stormwater runoff calculations governed by the parameters set forth in Appendix I and Section 1120.                          |

Road Profiles - Do the road profiles include:

- |     |     |     |   |
|-----|-----|-----|---|
| ___ | ___ | ___ | 97. Profile of existing ground surface along centerline of street?  |
| ___ | ___ | ___ | 98. Proposed centerline grade with percent on tangents and elevations at fifty (50') foot intervals?            |
| ___ | ___ | ___ | 99. All vertical curve data including length, elevations, and minimum sight distance as required by Article 11? |

Sanitary Sewer and Storm Drain Profiles - Do the profiles include:

- |     |     |     |  |
|-----|-----|-----|--|
| ___ | ___ | ___ | 100. Profile of existing ground surface with elevations at top of manholes or inlets?  |
| ___ | ___ | ___ | 101. Profile of storm drain or sewer showing type and size of pipe, grade, cradle, manhole and inlet locations, and invert elevations along flow line? |
| ___ | ___ | ___ | 102. All line crossings of other utilities?  |
| ___ | ___ | ___ | 103. Invert elevations along flow line at manholes, inlets, and at line crossing of other utilities?   |

Construction Details - Are the following construction details included:

- |     |     |     |  |
|-----|-----|-----|--|
| ___ | ___ | ___ | 104. Typical cross-section and specifications for street construction as required by Article 11? |
| ___ | ___ | ___ | 105. Drainage swale cross section and construction materials?                                    |
| ___ | ___ | ___ | 106. Pipe bedding details?   |
| ___ | ___ | ___ | 107. Storm drainage structures?  |
| ___ | ___ | ___ | 108. Sanitary sewer structures?  |
| ___ | ___ | ___ | 109. Curb and sidewalk details?  |

**SUPPORTIVE DOCUMENTS AND INFORMATION**

- |     |     |     |  |
|-----|-----|-----|--|
| ___ | ___ | ___ | 110. Private deed restrictions or covenants already imposed or to be imposed as a condition of sale?   |
| ___ | ___ | ___ | 111. Map of all property holdings of the owner within one thousand (1,000') feet of the proposed subdivision, indicating the site of proposed subdivision? |
| ___ | ___ | ___ | 112. A sketch plan of a proposed road system with any property holdings contiguous to the proposed subdivision?  |
| ___ | ___ | ___ | 113. Certification of Public Water Supply System?  |

YES	NO	N/A	
___	___	___	114. Certification of a Centralized Sewage Disposal System?
___	___	___	115. Certification of On-Lot Sewage System?
___	___	___	116. Storm Drainage Calculations (see Appendix I)?
___	___	___	117. Development Statement and Schedule?
___	___	___	118. Statement of Compliance with Floodplain Regulations?
___	___	___	119. Current deed of Property being Subdivided?
___	___	___	120. Lots for annexation or not for further development shall be so noted.
___	___	___	121. Traffic Impact Study?

CERTIFICATION OF ACCURACY

I, \_\_\_\_\_, HEREBY CERTIFY THAT THE PLAT SHOWN AND DESCRIBED HEREON AS WELL AS ALL DRAWINGS BEARING MY SEAL ARE TRUE AND CORRECT AS TO ACCURACY AS REQUIRED BY BRANCH TOWNSHIP AND WERE PREPARED BY ME OR UNDER MY DIRECTION AND FOR WHICH I ACCEPT FULL RESPONSIBILITY, AND THAT THE PERIMETER MONUMENTS HAVE BEEN ACCURATELY PLACED AS REQUIRED.

\_\_\_\_\_  
DATE

\_\_\_\_\_  
SIGNATURE OF THE PROFESSIONAL RESPONSIBLE FOR THE PREPARATION OF THE PLAN

NOTE: THIS CHECKLIST IS BEING PROVIDED FOR THE CONVENIENCE OF THE APPLICANT. COMPLIANCE WITH THE CHECKLIST ITEMS DOES NOT GUARANTEE SUBDIVISION PLAN APPROVAL. IT IS THE RESPONSIBILITY OF THE APPLICANT TO ASSURE COMPLIANCE WITH ALL APPLICABLE SECTIONS OF THE REGULATIONS.



**BRANCH TOWNSHIP SUBDIVISION REGULATIONS**

**C.4 MAJOR SUBDIVISION  
FINAL PLAN CHECKLIST**

YES      NO      N/A

**GENERAL SUBMISSION ITEMS - Does the submission include:**

- |     |     |     |    |  |
|-----|-----|-----|----|--|
| ___ | ___ | ___ | 1. | Two (2) copies of completed Application Form?                |
| ___ | ___ | ___ | 2. | Two (2) copies of Preliminary Plan Checklist?                |
| ___ | ___ | ___ | 3. | Ten (10) copies of Final Plan (prints)?                      |
| ___ | ___ | ___ | 4. | Four (4) sets of Supportive Documents?                       |
| ___ | ___ | ___ | 5. | Review letter from Soil Conservation District?               |
| ___ | ___ | ___ | 6. | Review letter from PennDOT (if applicable)?                  |
| ___ | ___ | ___ | 7. | Review letter from appropriate Utility Companies?            |
| ___ | ___ | ___ | 8. | The required fee (in accordance with Township Fee Schedule)? |

**SPECIFIC PLAN REQUIREMENTS**

Drafting Standards for All Plans - Do the Plans have:

- |     |     |     |     |   |
|-----|-----|-----|-----|---|
| ___ | ___ | ___ | 9.  | Plan drawings at a size no larger than 24" x 36"?   |
| ___ | ___ | ___ | 10. | A scale of 1"=50', 1"=100' or other approved scale?   |
| ___ | ___ | ___ | 11. | Profiles drawn at a vertical scale of <ul style="list-style-type: none"> <li>• Five (5') feet per inch or ten (10') feet per inch (for horizontal scale of 1"=50'),</li> <li>• Ten (10') feet per inch (for horizontal scale of 1"=100') or</li> <li>• Other approved scale?</li> </ul> |
| ___ | ___ | ___ | 12. | Dimensions set in feet and decimal part thereof and bearings in degrees, minutes and seconds?   |
| ___ | ___ | ___ | 13. | Sheets numbered and show relationship to the total number of sheets?  |
| ___ | ___ | ___ | 14. | An adequate legend indicating clearly which features are existing and which are proposed?   |
| ___ | ___ | ___ | 15. | Revisions noted and dated?  |
| ___ | ___ | ___ | 16. | A boundary line shown as a solid heavy line?  |

General Information Required on all Plans - Do the Plans have:

- |     |     |     |     |   |
|-----|-----|-----|-----|---|
| ___ | ___ | ___ | 17. | A title "Final Plan"?   |
| ___ | ___ | ___ | 18. | Sheet Title (e.g., "Layout Plan")?  |
| ___ | ___ | ___ | 19. | Name and location of subdivision or land development?   |
| ___ | ___ | ___ | 20. | Graphic and/or written scales?  |
| ___ | ___ | ___ | 21. | Date of Plan and all subsequent revision dates?   |
| ___ | ___ | ___ | 22. | Names and addresses, signatures and seals of the licensed Engineer, surveyor, architect or landscape architect responsible for preparation of the Plan? |



**INFORMATION REQUIRED ON ALL LAYOUT PLANS, GRADING  
AND STORM DRAINAGE PLANS, UTILITY PLANS AND EROSION  
AND SEDIMENTATION PLANS**

YES      NO      N/A

General Information - Do the Plans have:

- |     |     |     |     |  |
|-----|-----|-----|-----|--|
| ___ | ___ | ___ | 23. | North arrow?   |
| ___ | ___ | ___ | 24. | Site boundaries with closure of 1 in 10,000?                     |
| ___ | ___ | ___ | 25. | Boundaries of all adjoining properties with names of landowners? |
| ___ | ___ | ___ | 26. | Location and type of existing monuments?                         |

Natural Features - Do the Plans show:

- |     |     |     |     |  |
|-----|-----|-----|-----|--|
| ___ | ___ | ___ | 27. | Contour lines with elevation datum indicated?  |
| ___ | ___ | ___ | 28. | Generalized slope areas (15%-25%, over 25%)?   |
| ___ | ___ | ___ | 29. | Location and extent of various soil types with S.C.S. classification and DEP definitions for each? |
| ___ | ___ | ___ | 30. | Forested areas?  |
| ___ | ___ | ___ | 31. | Watercourses, lakes, flood-prone or flood-plain areas and wetlands (with names, if any)?           |

Man-Made Features - Do the Plans include the location of the following man-made features on the site being subdivided or developed:

- |     |     |     |     |  |
|-----|-----|-----|-----|--|
| ___ | ___ | ___ | 32. | Streets and rights-of-way (including name and right-of-way widths) on the site and on immediately adjacent tracts? |
| ___ | ___ | ___ | 33. | Existing lot layout on the site and on immediately adjacent tracts?  |
| ___ | ___ | ___ | 34. | Historic sites or structures, including name and description?  |
| ___ | ___ | ___ | 35. | Sewer lines, storm drains and culverts, including but not limited to water lines and electric lines?               |
| ___ | ___ | ___ | 36. | Bridges?   |
| ___ | ___ | ___ | 37. | Utility easements, restrictive covenants and easements for purposes which might affect development?                |

Proposed Features - Do the Plans show?

- |     |     |     |     |  |
|-----|-----|-----|-----|--|
| ___ | ___ | ___ | 38. | Layout of streets with centerlines, cartways and right-of-ways, and proposed names?  |
| ___ | ___ | ___ | 39. | Layout of lots with identification number?   |
| ___ | ___ | ___ | 40. | Building setback lines from all lot lines?   |
| ___ | ___ | ___ | 41. | The arrangement and use of buildings and parking areas in nonresidential developments and planned residential developments, with all necessary dimensions and number of parking spaces (elevations and perspective sketches of proposed buildings are encouraged)? |
| ___ | ___ | ___ | 42. | Rights-of-way, restrictive covenants, and easements for all drainage, utilities or other purposes which might affect development?  |

YES NO N/A

- |     |     |     |     |   |
|-----|-----|-----|-----|---|
| ___ | ___ | ___ | 43. | Sidewalks and pedestrian paths?                             |
| ___ | ___ | ___ | 44. | Open space areas?   |
| ___ | ___ | ___ | 45. | Recreation facilities?                                      |
| ___ | ___ | ___ | 46. | Proposed monuments with reference to proposed improvements? |
| ___ | ___ | ___ | 47. | Lot size and yard requirements?                             |
| ___ | ___ | ___ | 48. | Applicable zoning district?                                 |
| ___ | ___ | ___ | 49. | All lots shall front on a public street?                    |
| ___ | ___ | ___ | 50. | Well location?  |
| ___ | ___ | ___ | 51. | Primary leach field?  |
| ___ | ___ | ___ | 52. | Soil probe location?  |
| ___ | ___ | ___ | 53. | Percolation test location?                                  |

Protective Covenants - Do the Plans have protective covenants providing for:

- |     |     |     |     |   |
|-----|-----|-----|-----|---|
| ___ | ___ | ___ | 54. | Building setbacks?  |
| ___ | ___ | ___ | 55. | Clear sight triangle easements?   |
| ___ | ___ | ___ | 56. | Utility, drainage, and slope easements?   |
| ___ | ___ | ___ | 57. | "Well and sewage disposal systems shall be constructed in accordance with recommended standards of the Pennsylvania Department of Environmental Resources" (if appropriate)?            |
| ___ | ___ | ___ | 58. | "Individual owners of lots must apply to the Township for a sewage permit prior to undertaking the construction of an on-lot sewage disposal system" (if appropriate)?                  |
| ___ | ___ | ___ | 59. | "Branch Township has not passed upon the feasibility of any individual lot or location within a lot being able to sustain any type of well or sewage disposal system" (if appropriate)? |

Plot Plan and Layout Plan Additional Information - Does the Plot Plan and Layout Plan have:

- |     |     |     |     |  |
|-----|-----|-----|-----|--|
| ___ | ___ | ___ | 60. | Names and addresses of landowner?  |
| ___ | ___ | ___ | 61. | Names and addresses of developer?  |
| ___ | ___ | ___ | 62. | Names and addresses of adjoining property owners?  |
| ___ | ___ | ___ | 63. | Owners Statement of Acknowledgement?   |
| ___ | ___ | ___ | 64. | Approval/review signature blocks?  |
| ___ | ___ | ___ | 65. | Location map at a suitable scale showing the relation of the site to adjoining properties, streets, zoning district boundaries, and municipal boundaries within one thousand (1000') feet? |
| ___ | ___ | ___ | 66. | Project Summary List?  |

Proposed Features - Does the Plot Plan and Layout Plan show the following additional information:

- |     |     |     |     |   |
|-----|-----|-----|-----|---|
| ___ | ___ | ___ | 67. | Layout of lots, with identification number? |
|-----|-----|-----|-----|---|

Streets

- |     |     |     |     |                 |
|-----|-----|-----|-----|-----------------|
| ___ | ___ | ___ | 68. | Proposed names? |
|-----|-----|-----|-----|-----------------|

YES NO N/A

- |     |     |     |     |  |
|-----|-----|-----|-----|--|
| ___ | ___ | ___ | 69. | Cartway and right-of-way width?  |
| ___ | ___ | ___ | 70. | Centerline with bearings, distances, curve data?   |
| ___ | ___ | ___ | 71. | Right-of-way and curb lines with radii at intersections?   |
| ___ | ___ | ___ | 72. | Beginning and end of proposed construction?  |
| ___ | ___ | ___ | 73. | Tie-ins by courses and distances to intersection of all public roads, with their names and widths of cartway and right-of-way?     |
| ___ | ___ | ___ | 74. | Building setback lines?  |
| ___ | ___ | ___ | 75. | Rights-of-way, restrictive covenants, and easements for all drainage, utilities, or other purposes which might affect development? |

Plot Plan Additional Information - Does the Plot Plan include the following additional information?

- |     |     |     |     |  |
|-----|-----|-----|-----|--|
| ___ | ___ | ___ | 76. | Site boundaries with closure of 1 in 10,000?                     |
| ___ | ___ | ___ | 77. | Boundaries of all adjoining properties with names of landowners? |
| ___ | ___ | ___ | 78. | Location and type of existing monuments?                         |
| ___ | ___ | ___ | 79. | North arrow?   |

Location of Existing Man-Made Features within 100 feet from the Tract Being Subdivided

- |     |     |     |     |  |
|-----|-----|-----|-----|--|
| ___ | ___ | ___ | 80. | Streets and rights-of-way, including name and right-of-way widths, on the site and on immediately adjacent tracts? |
| ___ | ___ | ___ | 81. | Existing lot layout on the site and on immediately adjacent tracts?  |
| ___ | ___ | ___ | 82. | Utility easements, restrictive covenants and easements for purposes which might affect development?                |

Grading and Storm Drainage Plan - Does the Plan indicate:

- |     |     |     |     |  |
|-----|-----|-----|-----|--|
| ___ | ___ | ___ | 83. | Existing and proposed contour lines at intervals of five (5') feet (if slope is between 0% and 15%) and ten (10') feet (if slope is over 15%)? |
| ___ | ___ | ___ | 84. | Street centerline data and stations corresponding to the profile?  |

Storm Drainage

- |     |     |     |     |  |
|-----|-----|-----|-----|--|
| ___ | ___ | ___ | 85. | Location and size of facilities with stations corresponding to the profile?                          |
| ___ | ___ | ___ | 86. | Location of inlets with invert elevation of flow line and grade at the top of each inlet?            |
| ___ | ___ | ___ | 87. | Watershed areas for each drainage structure or swale?  |
| ___ | ___ | ___ | 88. | Property lines and ownership, with details of easements where required?                              |
| ___ | ___ | ___ | 89. | Beginning and end of proposed construction?  |
| ___ | ___ | ___ | 90. | Location of all other drainage facilities and public utilities in the vicinity of storm drain lines? |
| ___ | ___ | ___ | 91. | Hydraulic design standards for culverts, bridge structures and/or other storm facilities?            |

YES NO N/A

\_\_\_ \_\_\_ \_\_\_

92. Location and size of proposed drainage swales?

Utility Plan - Does the Utility Plan show:  
(If on-lot sanitary sewage disposal systems are proposed?)

\_\_\_ \_\_\_ \_\_\_

93. Existing and proposed contour lines at intervals of five (5') feet (if slope is between 0% and 15%) or ten (10') feet (if slope is over 15%)?

\_\_\_ \_\_\_ \_\_\_

94. Proposed location of wells?

\_\_\_ \_\_\_ \_\_\_

95. Proposed or typical location of dwelling?

\_\_\_ \_\_\_ \_\_\_

96. Proposed location of subsurface disposal field?

\_\_\_ \_\_\_ \_\_\_

97. Location of percolation test holes and soil probe pit?

(If centralized sanitary sewers are proposed?)

\_\_\_ \_\_\_ \_\_\_

98. Location and size of line with stations corresponding to the profile?

\_\_\_ \_\_\_ \_\_\_

99. Location of manholes with invert elevation of flow line and grade at the top of each manhole?

\_\_\_ \_\_\_ \_\_\_

100. Property lines and ownership, with details of easements where required?

\_\_\_ \_\_\_ \_\_\_

101. Beginning and end of proposed construction?

\_\_\_ \_\_\_ \_\_\_

102. Location of laterals?

\_\_\_ \_\_\_ \_\_\_

103. Location of all other drainage facilities and public utilities in the vicinity of sanitary sewer lines?

(If centralized water system is being proposed?)

\_\_\_ \_\_\_ \_\_\_

104. Location and size of waterline?

\_\_\_ \_\_\_ \_\_\_

105. Plans pertaining to water source?

\_\_\_ \_\_\_ \_\_\_

106. Fire hydrants?

(If on-lot water system is being proposed?)

\_\_\_ \_\_\_ \_\_\_

107. Location of all wells (existing and proposed)?

\_\_\_ \_\_\_ \_\_\_

108. Street lighting?

Erosion and Sedimentation Plan (If required) - Does the Plan:

\_\_\_ \_\_\_ \_\_\_

109. Comply with D.E.P. Soil Erosion and Sedimentation Control Manual and regulations of the Schuylkill County Conservation District?

\_\_\_ \_\_\_ \_\_\_

110. Use stormwater runoff calculations governed by the parameters set forth in Appendix I and Section 1120.

Road Profiles - Do the road profiles include:

\_\_\_ \_\_\_ \_\_\_

111. Profile of existing ground surface along centerline of street?

\_\_\_ \_\_\_ \_\_\_

112. Proposed centerline grade with percent on tangents and elevations at fifty (50') foot intervals?

YES	NO	N/A	
___	___	___	113. All vertical curve data including length, elevations, and minimum sight distance as required by Article 11?

Sanitary Sewer and Storm Drain Profiles - Do the profiles include:

___	___	___	114. Profile of existing ground surface with elevations at top of manholes or inlets?
___	___	___	115. Profile of storm drain or sewer showing type and size of pipe, grade, cradle, manhole and inlet locations, and invert elevations along flow line?
___	___	___	116. All line crossings of other utilities?
___	___	___	117. Invert elevations along flow line at manholes, inlets, and at line crossing of other utilities:

Construction Details - Are the following construction details included:

___	___	___	118. Typical cross-section and specifications for street construction as required by Article 11?
___	___	___	119. Drainage swale cross section and construction materials?
___	___	___	120. Pipe bedding details?
___	___	___	121. Storm drainage structures?
___	___	___	122. Sanitary sewer structures?
___	___	___	123. Curb and sidewalk details?

**SUPPORTIVE DOCUMENTS AND INFORMATION**

___	___	___	124. Private deed restrictions or covenants already imposed or to be imposed as a condition of sale?
___	___	___	125. Deed of dedication together with an 8 1/2" plan of each such improvement?
___	___	___	126. Nondedicated Streets Agreement?
___	___	___	127. Open Space Agreement?
___	___	___	128. Utilities Agreements and Permits?
___	___	___	129. Storm Drainage Calculations (see Appendix I)?
___	___	___	130. Development Statement and Schedule?
___	___	___	131. Current deed of Tract being Subdivided?
___	___	___	132. Traffic Impact Study?

CERTIFICATION OF ACCURACY

I, \_\_\_\_\_, HEREBY CERTIFY THAT THE PLAT SHOWN AND DESCRIBED HEREON AS WELL AS ALL DRAWINGS BEARING MY SEAL ARE TRUE AND CORRECT AS TO ACCURACY AS REQUIRED BY BRANCH TOWNSHIP AND WERE PREPARED BY ME OR UNDER MY DIRECTION AND FOR WHICH I ACCEPT FULL RESPONSIBILITY, AND THAT THE PERIMETER MONUMENTS HAVE BEEN ACCURATELY PLACED AS REQUIRED.

\_\_\_\_\_  
DATE

\_\_\_\_\_  
SIGNATURE OF THE PROFESSIONAL RESPONSIBLE FOR THE  
PREPARATION OF THE PLAN

NOTE: THIS CHECKLIST IS BEING PROVIDED FOR THE CONVENIENCE OF THE APPLICANT. COMPLIANCE WITH THE CHECKLIST ITEMS DOES NOT GUARANTEE SUBDIVISION PLAN APPROVAL. IT IS THE RESPONSIBILITY OF THE APPLICANT TO ASSURE COMPLIANCE WITH ALL APPLICABLE SECTIONS OF THE REGULATIONS.

**APPENDIX D**  
**CERTIFICATE OF ACCURACY**

**APPENDIX D**

**BRANCH TOWNSHIP**

**CERTIFICATE OF ACCURACY**

I, hereby certify that the plat shown and described hereon as well as all drawings bearing my seal are true and correct as to accuracy as required by the Branch Township Subdivision and Land Development Ordinance and were prepared by me or under my direction and for which I accept full responsibility, and that the perimeter monuments have been accurately placed as required

(seal)

Signed this \_\_\_\_\_ day of  
\_\_\_\_\_, 20\_\_\_\_

\_\_\_\_\_  
Registered Design Professional

My Pennsylvania registration  
license number is \_\_\_\_\_.



**APPENDIX E**

**RECOMMENDED OFFER OF DEDCIATION FORM**

**APPENDIX E**

**BRANCH TOWNSHIP**

**RECOMMENDED OFFER OF DEDICATION FORM**  
**(to appear on the final plan)**

I (we), the undersigned, owner(s) of the real estate shown and described herein, do hereby certify that I (we), have laid out, planned and subdivided the within plan, that the subdivisions shall be known and designated as \_\_\_\_\_ (Name of Subdivisions) and that all streets shown hereon are hereby dedicated to the public use forever.

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_  
Signature of Owner(s)

**APPENDIX F**

**CERTIFICATION OF OWNERSHIP (INDIVIDUALS)**

**APPENDIX F**

**BRANCH TOWNSHIP**

**CERTIFICATE OF OWNERSHIP - INDIVIDUALS**

(For Use by an Individual)

Commonwealth of Pennsylvania  
County of Schuylkill  
Branch Township

On this, the \_\_\_\_\_ day of \_\_\_\_\_, 20\_, before me, the undersigned officer, personally appeared \_\_\_\_\_, who being duly sworn according to law, deposes and confirms that said \_\_\_\_\_ is the owner (or equitable owner) of the property shown on this plan.

Witness my hand and seal the day and date above written.

\_\_\_\_\_  
(Signature of Individual)

(Seal)

\_\_\_\_\_  
My Commission Expires (date)

\_\_\_\_\_  
(Notary Public or Other Officer)

**APPENDIX G**

**CERTIFICATION OF OWNERSHIP (CORPORATION)**

**APPENDIX G**

**BRANCH TOWNSHIP**

**CERTIFICATE OF OWNERSHIP - CORPORATION**

(For Use by a Corporation)

This plan is hereby executed and delivered by \_\_\_\_\_ (name of corporation) which is the owner (or equitable owner) of the property shown on this plan, and the said plan was made by the authority of the corporation.

In witness whereof \_\_\_\_\_ (named corporation) has duly caused this to be executed by its President, \_\_\_\_\_, and by its Secretary, \_\_\_\_\_, and its corporate seal to be affixed thereto this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_.

\_\_\_\_\_  
Corporation

BY: \_\_\_\_\_  
President

(Corporate Seal)

ATTEST: \_\_\_\_\_  
Secretary

**APPENDIX G**

**BRANCH TOWNSHIP**

Commonwealth of Pennsylvania  
County of Schuylkill  
Branch Township

On the \_\_\_\_\_ day of \_\_\_\_\_ 20\_\_, before me, the subscriber, a Notary Public for the Commonwealth of Pennsylvania, residing in the County of Schuylkill, personally appeared \_\_\_\_\_.

Secretary of \_\_\_\_\_ who being duly sworn according to law, affirms that said person was personally present at the execution of the within plan and saw the common or corporate seal of the said corporation duly affixed thereto, that the seal so affixed is the common or corporate seal of the said Corporation; that the said plan was duly sealed and delivered by \_\_\_\_\_, President of the said corporation as and for the act of deed of said Corporation for the uses and purposes therein mentioned, that the Corporation is the owner (or equitable owner) of the property shown on this plan, and that the names of this deponent as Secretary and of \_\_\_\_\_ as President of the said Corporation, subscribed to the within plan in attestation of its due execution and delivery, are in their and each of their respective handwritings.

Sworn and subscribed before me, the day and year aforesaid.

Witness my hand and seal.

\_\_\_\_\_  
Notary Public

\_\_\_\_\_  
Secretary

\_\_\_\_\_  
My Commission Expires  
(Date)

**APPENDIX H**

**CERTIFICATION OF MUNICIPAL APPROVAL**



**APPENDIX H**

**BRANCH TOWNSHIP**

**CERTIFICATE OF MUNICIPAL APPROVAL**

The approval of the Final Plan by the Planning Commission and the Board of Supervisors must be indicated on the Record plan in substantially the following form:

At a meeting held on \_\_\_\_\_ (1) \_\_\_\_\_, 20 \_\_, the  
\_\_\_\_\_ (2) \_\_\_\_\_ by \_\_\_\_\_ (3) \_\_\_\_\_ duly enacted, approved the subdivision plan of the  
property of  
\_\_\_\_\_ (4) \_\_\_\_\_, as shown hereon.

\_\_\_\_\_ (5) \_\_\_\_\_

\_\_\_\_\_ (6) \_\_\_\_\_

\_\_\_\_\_

- (1) Date
- (2) Branch Township Planning Commission or Branch Township Supervisors
- (3) Insert either a Resolution, Ordinance # or Motion
- (4) Insert name of property owner
- (5) Signatures of the Branch Township Planning Commission or Branch Township Supervisors
- (6) Municipal Seal

**APPENDIX I**

**GENERAL HYDROLOGIC AND HYDRAULIC DATA**

## APPENDIX I

### STORMWATER DRAINAGE RUNOFF CALCULATION

#### I.1 RATIONAL FORMULA

One method which may be used in estimating peak runoff for areas that contain up to 100 acres shall be the Rational Formula  $Q = CIA$ , in which "Q" is the storm flow in cubic feet per second, "C" is a coefficient indicating the degree of imperviousness of the drainage area, "I" is the intensity of rainfall in inches per hour for the particular frequency of storm used, and "A" is the drainage area in acres. Other formulae may be utilized with approval of the Township or Commission Engineer. Computations for storm water detention may utilize Soil Conservation Service Design material.

#### I.2 VALUES OF RUNOFF COEFFICIENT "C"

Coefficient "C" used for the calculation of runoff shall be based on the anticipated ultimate use of the land. Accepted "C" values to be used are as listed in Table I-1.

#### I.3 VALUES OF STORM INTENSITY "I"

The values of "I", in inches per hour, shall be in accordance with the Soil Conservation Service design charts for the area.

#### I.4 RUNOFF CURVE NUMBERS "CN"

Runoff curve numbers shall be in accordance with the latest edition of Technical Release #55 of the *Urban Hydrology for Small Watersheds Handbook*.

#### I.5 VELOCITY OF FLOW IN OPEN CHANNELS

A. The velocity of flow in open channels and in closed drains not under pressure shall be determined by Manning's velocity equation:

v = velocity in feet per second

n = Manning's Roughness Coefficient

a = cross-sectional area of structure

p = perimeter of the wetted channel

s = slope in feet per foot

q = discharge (in cubic feet per second)

$$v = \frac{1.49 (a/p)^{2/3} s^{1/2}}{n}$$

$$q = va$$

B. The coefficient of roughness, "n", shall be as given in Table I-2.

I.6 PERMISSIBLE STREAM VELOCITIES IN OPEN CHANNELS

As given per Table I-3.

I.7 CALCULATIONS - The Grading and Stormwater Drainage Plan shall include calculations indicating velocities of flow, grades, sizes, and capacities of water carrying structures, debris or sediment basins, and retention and detention structures and sufficient design information to construct such facilities.

**TABLE I-1****RUNOFF COEFFICIENTS FOR THE RATIONAL FORMULA  
BY HYDROLOGIC SOIL GROUP AND OVERLAND SLOPE (%)**

LAND USE	A			B			C		
	0-2%	2-6%	6%+	0-2%	2-6%	6%+	0-2%	2-6%	6%+
CULTIVATED LAND	0.08a	0.13	0.16	0.11	0.15	0.21	0.14	0.19	0.26
	0.14b	0.18	0.22	0.16	0.21	0.28	0.20	0.25	0.34
PASTURE	0.12	0.20	0.30	0.18	0.28	0.37	0.24	0.34	0.44
	0.15	0.25	0.37	0.23	0.34	0.45	0.30	0.42	0.52
MEADOW	0.10	0.16	0.25	0.14	0.22	0.30	0.20	0.28	0.36
	0.14	0.22	0.30	0.20	0.28	0.37	0.26	0.35	0.44
FOREST	0.05	0.08	0.11	0.08	0.11	0.14	0.10	0.13	0.16
	0.08	0.11	0.14	0.10	0.14	0.18	0.12	0.16	0.20
RESIDENTIAL LOT SIZE 1/8 ACRE	0.25	0.28	0.31	0.27	0.30	0.35	0.30	0.33	0.38
	0.33	0.37	0.40	0.35	0.39	0.44	0.38	0.42	0.49
LOT SIZE ¼ ACRE	0.22	0.26	0.29	0.24	0.29	0.33	0.27	0.31	0.36
	0.30	0.34	0.37	0.33	0.37	0.42	0.36	0.40	0.47
LOT SIZE 1/3 ACRE	0.19	0.23	0.26	0.22	0.26	0.30	0.25	0.29	0.34
	0.28	0.32	0.35	0.30	0.35	0.39	0.33	0.38	0.45
LOT SIZE ½ ACRE	0.16	0.20	0.24	0.19	0.23	0.28	0.22	0.27	0.32
	0.25	0.29	0.32	0.28	0.32	0.36	0.31	0.35	0.42
LOT SIZE 1 ACRE	0.14	0.19	0.22	0.17	0.21	0.26	0.20	0.25	0.31
	0.22	0.26	0.29	0.24	0.28	0.34	0.28	0.32	0.40
INDUSTRIAL	0.67	0.68	0.68	0.68	0.68	0.69	0.68	0.69	0.69
	0.85	0.85	.086	0.85	0.86	0.86	0.86	0.86	0.87
COMMERCIAL	0.71	0.71	0.72	0.71	0.72	0.72	0.72	0.72	0.72
	0.88	0.88	0.89	0.89	0.89	0.89	0.89	0.89	0.90
STREETS	0.70	0.71	0.72	0.71	0.72	0.74	0.72	0.73	0.76
	0.76	0.77	0.79	0.80	0.82	0.84	0.84	0.85	0.89
OPEN SPACE	0.05	0.10	0.14	0.08	0.13	0.19	0.12	0.17	0.24
	0.11	0.16	.020	0.14	0.19	0.26	0.18	0.23	0.32
PARKING	0.85	0.86	0.87	0.85	0.86	0.87	0.85	0.86	0.87
	0.95	0.96	0.97	.095	0.96	0.97	0.95	0.96	0.97

- a. Runoff coefficients for storm recurrence intervals less than 25 years.  
b. Runoff coefficients for storm recurrence intervals of 25 years or more.

**ROUGHNESS COEFFICIENT "n"  
FOR MANNING'S EQUATION  
TABLE I-2**

DESCRIPTION	"n"
Smooth-wall Plastic Pipe	0.011
Concrete Pipe	0.012
Smooth-lined Corrugated Metal Pipe	0.012
Corrugated Plastic Pipe	0.024
Annular Corrugated Steel and Aluminum Alloy Pipe (Plain or Polymer Coated)	
2 2/3" x 1/2" Corrugations	0.024
3" x 1" Corrugations	0.027
5" x 1" Corrugations	0.025
6" x 2" Corrugations	0.033
Helically Corrugated Steel and Aluminum Alloy Pipe (Plain or Polymer Coated)	0.024
3" x 1", 5" x 1" Or 6"x 2" Corrugations	
Helically Corrugated Steel and Aluminum Alloy Pipe (Plain or Polymer Coated)	
2 2/3" x 1/2" Corrugations	
a. Lower Coefficients <input type="checkbox"/>	
18" Diameter	0.014
24" Diameter	0.016
36" Diameter	0.019
48" Diameter	0.020
60" Diameter or Larger	0.021
b. Higher Coefficients*	0.024
Annular or Helically Corrugated Steel or Aluminum Alloy Pipe Arches or Other Non-Circular Metal Conduit (Plain or Polymer Coated)	0.024
Vitrified Clay Pipe	0.012
Ductile Iron Pipe	0.013
Asphalt Pavement	0.015
Concrete Pavement	0.014
Grass Medians	0.050
Earth	0.020
Gravel	0.030
Rock	0.035
Cultivated Areas	0.030-0.050
Dense Brush	0.070-0.140
Heavy Timber (Little Undergrowth)	0.100-0.150
Streams:	
a. Some Grass and Weeds (Little or No Brush)	0.030-0.035
b. Dense Growth of Weeds	0.035-0.050
c. Some Weeds (Heavy Brush on Banks)	0.050-0.070

Use the lower coefficient if any one of the following conditions apply:

- a. A storm pipe longer than 20 diameters, which directly or indirectly connects to an inlet or manhole, located in swales adjacent to shoulders in cut areas, shoulders in cut areas or depressed medians.
- b. A storm pipe which is specially designed to perform under pressure.

\* Use the higher coefficient if any one of the following conditions apply:

- a. A storm pipe which directly or indirectly connects to an inlet or manhole located in highway pavement sections or adjacent to curb or concrete median barrier.
- b. A storm pipe which is shorter than 20 diameters long.
- c. A storm pipe which is partly lined helically corrugated metal pipe.

In considering each factor more critical, judgement is necessary if it is kept in mind that any condition that causes turbulence and retards flow results in greater value of "n".

Outlet velocity for bituminous paved invert shall be determined based on a 25% reduction in Manning's roughness coefficient "n".

## PERMISSIBLE VELOCITIES FOR CHANNELS

**TABLE I-3**

Channel Lining	Permissible Channel Velocity <sup>1</sup> (feet per second)
<b>Vegetation</b>	
Alfalfa	2.5 to 3.5
Bermudagrass	4 to 8
Crabgrass	2.5 to 3.5
Crownvetch	3 to 5
Kentucky Bluegrass	4 to 7
Kentucky 31 Trail Fescue	2.5 to 7
Red Clover or Red Fescue	2.5 to 3.5
Reed Canary	3 to 5
Ryegrass	2.5 to 3.5
Small Grains	2.5 to 3
Smooth Brome	3 to 7
Sudan Grass or Timothy	2.5 to 3.5
<b>Bare Earth, Easily Eroded</b>	
Fine Sand	1.5
Sand Loam	1.75
Silt Loam or Alluvial Silts, Loose	2
Firm Loam	2.25
<b>Bare Earth, Erosion Resistant</b>	
Fine Gravel	2.5
Stiff Clay or Alluvial Silts, Firm	3
Loam to Cobbles (graded)	3.75
Silt to Cobbles (graded or Coarse Gravel)	4
Cobbles and Stones or Shales and Hardpans	5
Durable Bedrock	8
<b>Other</b>	
Plastic	4
6" Rip Rap	6
Asphalt	7
9" Rip Rap	8
12" Rip Rap or Wood	9
Concrete or Steel	12

These values, if applied to uniform, straight channels, may be considered in accordance with Chapter 102.12 of the Erosion Control Rules and Regulations. However, slope, soil condition, climate and management must be considered in channel design. If different channel linings exist in a channel, and size and slope do not change, design the channel for the lining with the lower velocity listed. Where velocity ranges are listed, the lower velocity is for design with easily eroded soils and slopes greater than 10%. The higher velocity is for design with erosion resistant souls and slopes less than 5%. Filtration and/or sedimentation in the channel is encouraged. However, this must be considered for velocity determination in the design of the channel cross-section.

Source: Pennsylvania Department of Environmental Protection, 1985, "Soil Erosion and Sedimentation Control Manual", Appendix 67.

**RATIONAL METHOD  
STORM FREQUENCY AMOUNTS**

**TABLE I-4**

<b>STORM FREQUENCY</b>	<b>INCHES OF RAINFALL</b>
2 years	3.0 inches
5 years	3.9 inches
10 years	4.7 inches
25 years	5.3 inches
50 years	5.9 inches
100 years	6.5 inches

Storm water runoff shall be based on the following 24-hour storm events:



**APPENDIX J**

**RECOMMENDED SUBDIVISION  
AND LAND DEVELOPMENT AGREEMENT**

**BRANCH TOWNSHIP, SCHUYLKILL COUNTY**

**RECOMMENDED SUBDIVISION AND LAND DEVELOPMENT AGREEMENT**

In consideration of the mutual covenants contained herein, it is hereby agreed between the \_\_\_\_\_ Branch Township \_\_\_\_\_, and \_\_\_\_\_, the subdivider of the property and shown on the plan of \_\_\_\_\_, dated \_\_\_\_\_, 20\_\_\_\_, that in accordance with municipal requirements and specifications, the responsibility for the provision of the improvements shown on the plan will be as follows:

<u>Improvement</u>	<u>Estimated Cost</u>	<u>To be provided by</u>		
		<u>Subdivider</u>	<u>Municipality</u>	<u>Other (specify)</u>
Street grading	_____	_____	_____	_____
Street base course	_____	_____	_____	_____
Street paving	_____	_____	_____	_____
Curbs	_____	_____	_____	_____
Sidewalks	_____	_____	_____	_____
Storm sewer facilities	_____	_____	_____	_____
Pipe	_____	_____	_____	_____
Inlets	_____	_____	_____	_____
Pond	_____	_____	_____	_____
Fence	_____	_____	_____	_____
Sanitary Sewers:				
Trunk lines	_____	_____	_____	_____
Mains	_____	_____	_____	_____
House Connections	_____	_____	_____	_____
Manholes	_____	_____	_____	_____
On-site sewage facilities	_____	_____	_____	_____
Water Distribution:				
Mains	_____	_____	_____	_____
Meters	_____	_____	_____	_____
Service Connections	_____	_____	_____	_____
On-site water supply	_____	_____	_____	_____
Fire hydrants	_____	_____	_____	_____
Street monuments	_____	_____	_____	_____
Street lights	_____	_____	_____	_____
Landscaping	_____	_____	_____	_____
Trees	_____	_____	_____	_____
Street Signs	_____	_____	_____	_____

SUBDIVISION AND LAND DEVELOPMENT AGREEMENT (Cont'd)

<u>Improvement</u>	<u>To be provided by</u>			
	<u>Est. Cost</u>	<u>Subdivider</u>	<u>Municipality</u>	<u>Other (specify)</u>
Recreational facilities				
Parking lots or other facilities				
Underground electric service				
Supervision of all installations				
Total Estimated Cost				

Prior to the Planning Commission and Governing Body's endorsement of the Record Plan of this aforementioned subdivision, an original copy of this agreement shall be filed with the Municipality, notwithstanding other completion guarantees (in the form of a bond or the deposit of funds or securities in escrow) as may be required.

This agreement shall be subject to such modifications as may be mutually agreed upon by the subdivider and the Governing Body.

\_\_\_\_\_  
(witness)

\_\_\_\_\_  
(signature of subdivider)

\_\_\_\_\_  
(witness)

approved by resolution of the Branch Township Supervisors at the meeting of \_\_\_\_\_  
\_\_\_\_\_, 20\_\_.

(seal)

\_\_\_\_\_  
Chairperson of Supervisor , Branch Township

\_\_\_\_\_  
Attest: Secretary, Branch Township    Chairperson, Branch Township

**APPENDIX K**

**FEE SCHEDULE FOR SUBDIVISION AND  
LAND DEVELOPMENT REVIEWS**

**BRANCH TOWNSHIP**

**FEE SCHEDULE FOR SUBDIVISION AND LAND DEVELOPMENT REVIEWS**

The following fees will be charged by the Branch Township Planning Commission for subdivision and land development reviews as authorized by the Pennsylvania Municipalities Planning Code, Act 247, as amended. These fees are effective. Plans will not be accepted for review by the Planning Commission without the appropriate fee and the required number of plans.

<b>Schedule I - Fees</b>		<b>Subdivision (All Land Uses) and Land Development (Residential Use Only)</b>		
Number of Lots or Units Including Residue Units	Administrative Fees		Professional Fees	
	Sketch Official Sketch Sketch for Record	Preliminary or Final	Repeat Stage	Escrow
1 – 5	\$100	\$150	50% of	\$200
6 – 25	145	400	original	400
26 – 49	250	600	submission	800
50 – 99	360	800	unless	1,200
100 – 199	440	1,000	number of	1,600
200 and Over	Add \$95 for each 100 lots/units or part thereof over 199	Add \$100 for each 100 lots/units or part thereof over 199	lots or units changed	Add \$750 for each 100 lots/units or part thereof over 199
Lot Annexation/Boundary Line Adjustment	100	150		--

<b>Schedule II - Fees</b>		<b>Commercial, Industrial, Public and Quasi Public (Land Development Only)</b>		
Area to be Disturbed by Development	Administrative Fees		Professional Fees	
	Sketch Official Sketch Sketch for Record	Preliminary or Final	Repeat Stage	Escrow
Under 2 acres	\$195	\$300	50% of	\$500
2 to under 8 acres	310	500	original	1,250
8 to under 15 acres	400	700	submission	2,500
15 to under 30 acres	485	900	unless the site	5,000
30 to under 50 acres	570	1,100	area has	7,500
50 to under 100 acres	660	1,300	changed	10,000
100 acres & over	Add \$90 for each 50 acres or part thereof over 100 acres	Add \$200 for each 50 acres or part thereof over 100 acres		Add \$2,000 for each 50 acres or part thereof over 100 acres

The terms "lots" includes conveyances, tracts or parcels of land for the purpose, whether immediate or future, of lease, transfer of ownership or building or development, as well as residue parcels, annexations, or correction of lot lines.

For subdivisions and/or developments that transcend the boundary limits of the Township, only those lots which are located entirely or partially within the limits of Branch Township shall be considered when determining appropriate review fees. The entire disturbed area within a lot shall be considered when determining appropriate Schedule II Review Fees whether or not the disturbed area lies entirely within Township limits.

All required County Plan Review Fees shall be paid at the time of plan submission to the Township.

Improvements. Review of improvements agreements will be billed independently of the subdivision review fee on an hourly basis in accordance with the current schedule.

Improvements inspections. Any inspection requested by the Township of the improvements of any approved subdivision will be conducted on an hourly rate basis in accordance with the current Township Engineer Retainer.

Money in escrow is for reimbursement at Branch Township's discretion for any and all engineering or legal or other expenses incurred by the Township, exclusive of work performed by full-time Township staff members, in processing the Sketch, Preliminary and Final Plans. As soon as this escrow account decreases by fifty percent (50%), the Applicant shall make payment in an amount necessary to fully fund the account. Upon the recording of the Subdivision or Land Development Plan, as applicable, with the Recorder of Deeds and the payment of all Township engineering, legal and other expenses incurred by the Township, exclusive of work performed by full-time Township staff members, the Applicant may submit a written request to the Township Treasurer for a refund of the unused escrow account. Money held in escrow will not be returned until all invoices from the Township Engineer and Solicitor have been received by the Township and paid by the Applicant. The Solicitor's and Engineer's invoices are submitted to the Township every thirty (30) days.

**SCHEDULE I FEES** are based on the number of lots or units. All land uses are included: residential, commercial, industrial, public, quasi-public and other. Therefore, an industrial park subdivision prior to development of individual lots is subject to Schedule I. The same would be true of a commercial lot subdivision or selling of land for a church or school. Schedule I fees also cover residential land development such as an apartment complex, condominiums, rental townhouses and mobile home parks. Where there is a mix of lots and rental units the totals are added together to determine the fee.

**SCHEDULE II FEES** are based on the amount of land to be disturbed for development including buildings, access drives, streets, stormwater management, grading, public sewer and water service, erosion and sediment control landscaping and any other activity that disturbs the ground on the site. The total disturbed area of a project is most accurately calculated by a planimeter following all outlines of disturbed areas. Where combinations of subdivision and non-residential development are proposed on a plan the fees must be determined separately and added together.