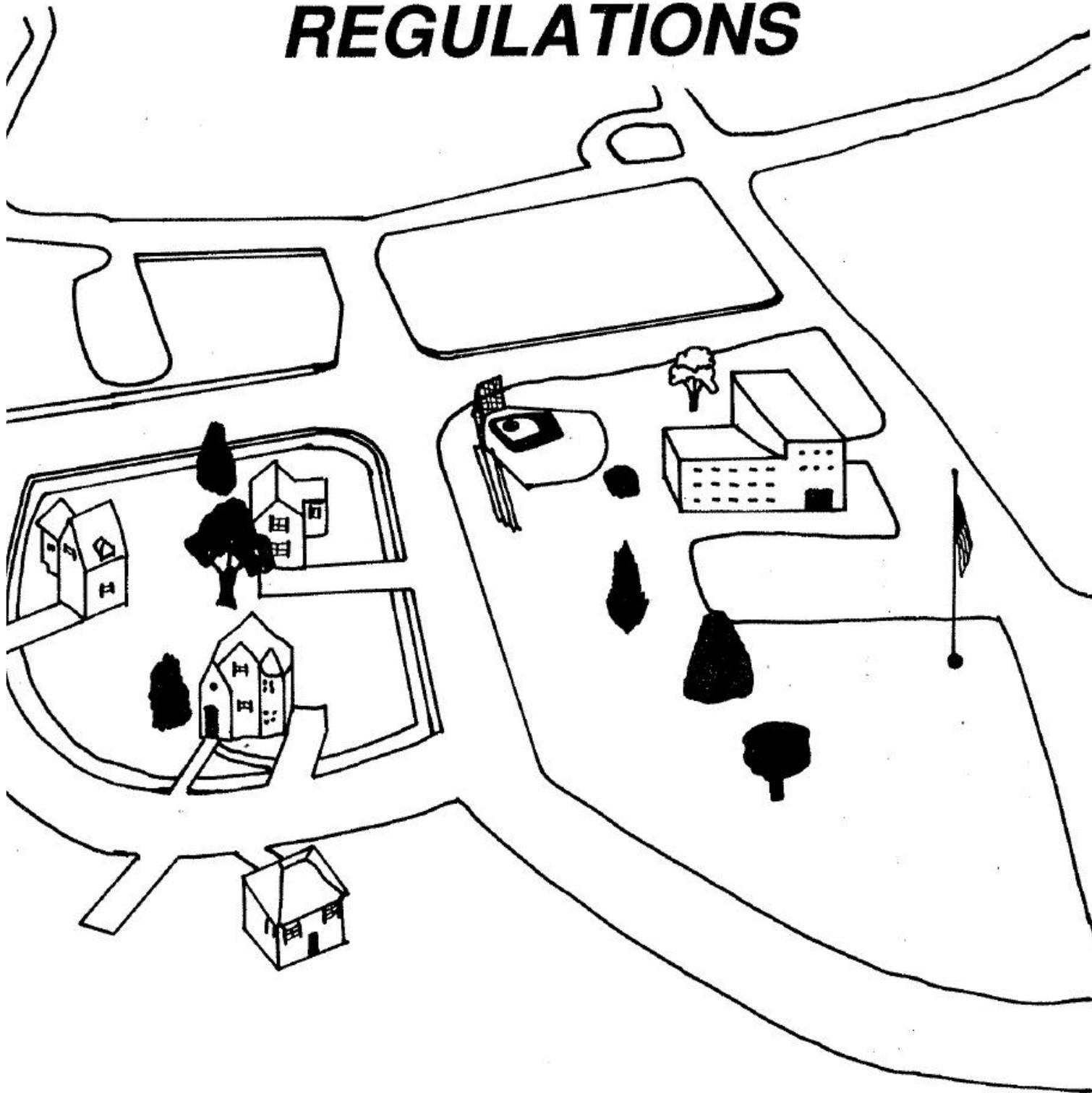


# ***SUBDIVISON REGULATIONS***



**HARTSVILLE / TROUSDALE COUNTY,  
TENNESSEE**

**SUBDIVISION REGULATIONS  
HARTSVILLE/TROUSDALE COUNTY, TENNESSEE**

**ADOPTED: DECEMBER 12, 1989**

**LAST AMENDED: JULY, 1999**

**PREPARED BY**

**DEPARTMENT OF ECONOMIC & COMMUNITY DEVELOPMENT  
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## AMENDMENTS

<u>Date</u>	<u>Resolution No.</u>	<u>Amendments</u>
October 6, 1998		Article IV, Added Subsection 4-102.9, <u>Width to Depth Ratio</u>
July 13, 1999		Article II, Subsection 2-101.201, Subpart a, <u>Minor Subdivision</u> , Added (iv) and (v)
July 13, 1999		Article IV, Subsection 4-101.3, <u>Monuments</u> , Amended, Subpart 2

**ARTICLE I**  
**GENERAL PROVISIONS**

**1-101 Title**

These regulations shall hereinafter be known and cited as the Subdivision Regulations of Hartsville and Trousdale County, Tennessee.

**1-102 Authority**

These subdivision regulations are adopted by the Hartsville/Trousdale County Planning Commission (hereinafter referred to as "planning commission"), in pursuance of the authority and powers granted by Sections 13-3-401 and 13-4-301 through 13-3-411 and 13-4-309, Tennessee Code Annotated. Having adopted a major street or road plan for the jurisdictional area, and filed a certified copy of the plan with the County Register of Deeds (hereinafter referred to as "county register"), as required by Sections 13-3-402 and 13-4-302, Tennessee Code Annotated, and having held a public hearing as indicated in Section 7-101 of these regulations and as required by Sections 13-3-403 and 13-4-303, Tennessee Code Annotated, the planning commission has fulfilled the requirements set forth in state law as prerequisites to the adoption of these regulations.

**1-103 Jurisdiction**

These subdivision regulations shall apply to all subdivisions, as herein defined, located within Hartsville/Trousdale County, Tennessee. No land shall be subdivided within the jurisdictional area until the subdivider submits a plat as required by these regulations, obtains planning commission approval of the plat, and files the approved plat with the county register.

**1-104 Policy and Purpose**

It is hereby declared to be the policy of the planning commission to consider the subdivision of land and development of a subdivision plat as subject to the control of the adopted land use or community development plan (hereinafter referred to as "land development plan") of the jurisdictional area for orderly, planned, and efficient physical and economical development.

Land to be subdivided shall be of such character that it can be used for building purposes without danger of health, fire, flood, or other menace.

Land shall not be subdivided until proper provisions have been made for drainage, water, sewerage, other public utilities, and for other required public services. The existing and proposed public improvements shall generally conform to and be properly related to the proposals shown in the land development plan.

The regulations herein shall supplement and facilitate the enforcement of the provisions and standards contained in the Zoning Ordinance of Hartsville, Tennessee and the Zoning Resolution of Trousdale County, Tennessee (hereinafter referred to as "zoning regulations".)

These regulations are adopted for the following purposes:

- A. To promote the public health, safety, and general welfare of the jurisdictional area.
- B. To guide the development of the jurisdictional area in accordance with the land development plan, considering the suitability of nonresidential and public areas and having regard for the most beneficial land use in such areas.
- C. To provide for adequate light, air, and privacy; to secure safety from fire, flood, and other dangers; and to prevent overcrowding of the land and undue congestion of population.
- D. To enhance the character and economic stability and encourage the orderly, beneficial development of the jurisdictional area.
- E. To conserve the value of land, buildings, and improvements throughout the jurisdictional area and to minimize detrimental conflicts among the uses of land and structures.
- F. To guide public and private policy and action providing for transportation, water, sewerage, schools, recreational areas, and other public requirements and facilities.
- G. To provide for the most beneficial relationship between the uses of land and buildings and the efficient traffic movement throughout the jurisdictional area.
- H. To establish reasonable standards of design and procedures for subdivisions and resubdivisions; to further the orderly layout and use of land; and to insure proper legal descriptions and proper monumenting of land.
- I. To insure that public facilities are available and will have a sufficient capacity to serve the proposed subdivision.
- J. To prevent the pollution of air, streams, and ponds; to assure the adequacy of drainage facilities; to safeguard the water table; and to preserve the integrity, stability, beauty, and value of the jurisdictional area.
- K. To preserve the natural beauty and topography of the jurisdictional area, and to insure appropriate development with regard to these natural features.
- L. To provide for open spaces through efficient design and layout of the land, including the use of average density in providing for minimum width and area of lots, while preserving the density of land as established in any zoning ordinance.
- M. To encourage subdivision design which would maximize the conservation of all forms of energy.

## **1-105 Interpretation, Conflict, and Severability**

### **1-105.1 Interpretation**

These regulations shall be held to be the minimum requirements for the promotion of health, safety, and general welfare.

### **1-105.2 Conflict with Public and Private Provisions**

#### **1-105.201 Public Provisions**

These regulations are not intended to interfere with, abrogate, or annul any other ordinance, rule, or regulation, statute, or other provision of law. Where any provision of these regulations imposes restrictions different from those imposed by any other ordinance, rule, regulation, or other provision of law, whichever provisions are more restrictive or impose higher standards shall control.

#### **1-105.202 Private Provisions**

These regulations are not intended to abrogate any easement, covenant, or any other private agreement or restriction; provided, that where these regulations are more restrictive or impose higher standards than such easement, covenant, or other private agreement or restriction, the requirements of these regulations shall govern.

Where any private provision exceeds the standards set forth herein, such shall be considered a private contract between the parties of interest, and as such is beyond the jurisdiction of the planning commission.

### **1-105.3 Severability**

If any part or provision of these regulations or application thereof to any person or circumstances is adjudged invalid by any court of competent jurisdiction, such judgment shall be confined in its operation to the part, provision, or application directly involved in the controversy in which such judgment shall have been rendered and shall not affect or impair the validity of the remainder of these regulations or the application thereof to other persons or circumstances. The planning commission hereby declares that it would have enacted the remainder of these regulations without any such part, provision, or application.

## **1-106 Saving Provision**

These regulations shall not be construed as abating any action now pending under, or by virtue of prior subdivision regulations; or as discontinuing, abating, modifying, or altering any penalty accruing or about to accrue; or as affecting the liability of any person; or as waiving any right of the planning commission under any section or provision existing at the time of adoption of these regulations; or as vacating or annulling any rights obtained by any person by lawful action of the planning commission, except as expressly provided otherwise in these regulations.

## **1-106.1 Previously Approved Subdivisions**

### **1-106.101 Unexpired Preliminary Approval**

The approval granted on any plat prior to the effective date of these regulations shall remain in force and effect for the time period stipulated by the regulations under which the approval was first granted.

### **1-106.102 Expired Preliminary Approval**

In any instance in which the period of preliminary approval shall have passed with some portion of the subdivision not having received final approval, and the applicant wishes an extension of the preliminary approval, the planning commission may:

- (1) permit the remaining portion of the subdivision to be constructed and to receive approval under provisions set forth in the regulations whereby preliminary approval was originally granted, or
- (2) stipulate that the plat is null and void and that a new plat be presented subject to the provisions of these regulations.

In making this determination, the planning commission shall consider all pertinent facts available to it. The current state and active pursuit of construction and development activities within the subdivision shall be given due consideration in the course of the planning commission's deliberation on this question.

## **1-107 Amendments**

### **1-107.1 Enactment**

For the purpose of providing for the public health, safety, and general welfare the planning commission may from time to time amend these regulations. Before the adoption of any amendment to these regulations, a public hearing thereon shall be held by the planning commission, as required by Chapter 3, Title 13, Tennessee Code Annotated, at least thirty (30) days notice of the time and place of which shall be given in a newspaper of general circulation.

### **1-107.2 Codification and Distribution**

Subsequent to the adoption of any amendment to these regulations, such amendment shall be incorporated into the text of these regulations in the following manner.

1. Replacement pages shall be prepared incorporating the new or changed language. Each such new or replacement page shall have the amendment number and shall be dated so as to indicate the date of the last revision of the page.

2. In Article VII, of these regulations, each adopted amendment shall be numbered consecutively and printed on pages separate from any other amendment and in a manner which fully states any language deleted from these regulations and any language added and the place in the text of each such change.

## **1-108 Resubdivision of Land**

### **1-108.1 Procedures for Resubdivision**

If any change in an approved or recorded subdivision plat would affect the layout of any public street, alley, or road (hereinafter referred to as public way) shown on such plat, or area reserved thereon for public use, or any lot line, or if it would affect any map, plan, or plat legally recorded before the adoption of any subdivision regulations, such amendment shall be approved by the planning commission by the same procedure, rules, and regulations as for a subdivision.

### **1-108.2 Procedures for Subdivision Where Future Resubdivision Is Foreseen**

Whenever a parcel of land is subdivided and the subdivision plat shows one or more lots containing more than one acre of land or double the minimum required area for any zoning district in which the lot is located, and the planning commission has reason to believe that any such lot(s) will be resubdivided into smaller building sites, the planning commission may require that the subdivision and development of such parcel of land allow for the future opening of public ways and the ultimate extension of adjacent public ways. The planning commission may also require that dedications providing for the future opening and extension of such public ways be indicated on the plat.

## **1-109 Conditions**

Regulation of the subdivision of land and the attachment of reasonable conditions to land subdivision are exercises of valid police power delegated by the state to the planning commission. The developer has the duty of compliance with reasonable conditions imposed by the planning commission for design, dedication, improvement, and restrictive use of the land so as to provide for the physical and economical development of the jurisdictional area and for the safety and general welfare of future plot owners in the subdivision and of the community at large.

## **1-110 Vacation of Plats**

Any plat or any part of any plat may be vacated by the owner of the premises, at any time before the sale of any lot described therein, by a written instrument, to which a copy of such plat shall be attached, declaring the plat or part of the plat to be vacated. The planning commission shall follow the same procedure for approval of plats. The planning commission may reject any such instrument which abridges or destroys any public rights in any of its public uses, improvements, or public ways. Such an instrument shall be executed, acknowledged, or approved, and duly recorded or filed;

the instrument shall operate to void the recorded plat and divest all public rights in the public ways and public grounds and all dedications laid out or described in such plat. When any lot or lots have been sold the plat may be vacated in the manner herein provided only if all of the owners of lots in such platted area join in the execution of such writing.

## **1-111 Variances**

### **1-111.1 General**

If the planning commission finds that extraordinary hardships or practical difficulties may result from strict compliance with these regulations, a variance from these regulations may be granted; provided, such variance shall not have the effect of nullifying the general intent and purpose of these regulations and provided, further, that the planning commission shall not recommend variations unless it shall make findings based upon written evidence presented to it in each specific case that:

1. the granting of the variance will not be detrimental to the public safety, health, or welfare, or be injurious to other property or improvements in the neighborhood in which the property is located;
2. the conditions upon which the request for a variance is based are unique to the property for which the variance is sought and are not applicable generally to other property;
3. because of the particular physical surroundings, shape, or topographical condition of the specific property involved, a particular hardship (not self-imposed) to the owner would result, as distinguished from a mere inconvenience, if the strict letter of these regulations were carried out; and
4. the variance will not in any manner alter the provisions of the land development plan, the major street or road plan, or any zoning ordinance.

Where the planning commission concludes that the purpose of these regulations may be specifically served to an equal or greater extent by an alternative proposal, condition, or circumstance, it may approve other variations to these regulations.

### **1-111.2 Procedures**

Each and every variance or modification of these subdivision regulations sought by a subdivider shall be specifically applied for in the numerical order of the subdivision regulations, in writing by the subdivider in letter form. Any condition shown on the plat which would require a variance or modification shall constitute a grounds for disapproval of the plat unless such special application for modification variance is made. In approving any variation from these regulations the planning commission shall state fully in the minutes the grounds for the variation and all of the facts upon which the decision is made.

### **1-111.3 Conditions**

In approving variations, the planning commission may impose such conditions as in its judgment will secure substantially the objectives, standards, and requirements of the regulations.

## **1-112 Enforcement, Violation, and Penalties**

### **1-112.1 General**

#### **1-112.101 Authority**

The enforcement of these regulations and the penalties for violations are provided pursuant to Title 13, Tennessee Code Annotated.

#### **1-112.102 Enforcing Officer**

It shall be the duty of the building inspector (hereinafter referred to as "the enforcing officer") to enforce these regulations and to bring to the attention of legal council any violations or lack of compliance herewith.

#### **1-112.103 Recording of Plats**

Pursuant to Sections 13-3-402 and 13-4-302, Tennessee Code Annotated, no plat of a subdivision of land within the jurisdictional area shall be received or recorded by the county register until the plat has received final approval of the planning commission in accordance with these regulations, and such approval has been endorsed in writing on the plat by the planning commission secretary in the manner prescribed by Section 2-105, of these regulations.

The description by metes and bounds in the instrument of transfer or other document used in the process of selling or transfer shall not exempt any owner or agent violating the provisions of the preceding paragraph from the penalties or remedies provided in Subsections 1-112.2 and 1-112.3, of these regulations.

#### **1-112.104 Use of Unapproved Plats**

Pursuant to Sections 13-3-410 and 13-4-306, Tennessee Code Annotated, no owner or agent of the owner of any land shall convey such land contrary to the provisions stated herein.

The description by metes and bounds in the instrument of transfer or other document used in the process of selling or transfer shall not exempt any owner or agent violating the provisions of the preceding paragraph from the penalties or remedies provided in Subsections 1-112.2 and 1-112.3, of these regulations.

**1-112.105 Metes and Bounds Subdivisions**

The subdivision of any lot or parcel of land by use of metes or bounds description without complying with the plat provisions of these regulations shall not be permitted. All such described subdivisions shall be subject to all of the requirements of these regulations.

**1-112.106 False Statements About Roads**

Pursuant to Sections 13-3-410 and 13-4-306, Tennessee Code Annotated, no owner or agent of the owner of any land shall falsely represent to a prospective purchaser of real estate that roads or streets will be built or constructed by any city, county, or any other political subdivision.

**1-112.107 Public Ways and Utilities**

Pursuant to Sections 13-3-410 and 13-4-306, Tennessee Code Annotated, the planning commission shall not nor shall any public authority accept, lay out, open, improve, grade, pave, or light any public way, lay or authorize the laying of water mains or sewers, or construct or authorize the construction of other facilities or utilities in any public way located within the jurisdictional area unless such way shall have been accepted, opened, or otherwise received the legal status of a public way prior to the attachment of the planning commission's jurisdiction, or unless such way corresponds in its location and lines to a way shown on a subdivision plat approved by the planning commission or on a public way plat made by the planning commission.

However, the planning commission may override the planning commission as provided in Title 13, Tennessee Code Annotated.

In case of any state highway constructed or to be constructed within the jurisdictional area with state funds as a part of the state highway system, the submission to the planning commission shall be by the Tennessee Commissioner of Transportation, who shall have the power to overrule the disapproval of the planning commission.

**1-112.108 Building Permits**

No building permit shall be issued for the construction of any building or structure located on a lot or plat subdivided or sold in violation of any provision of these regulations.

**1-112.109 Access to Lots by Public Way or Private Easement**

Pursuant to Sections 13-3-411 and 13-4-308, Tennessee Code Annotated, no building permit shall be issued and no building or structure shall be erected on any lot within the jurisdictional area, unless the public way giving access to the lot upon which the building or structure is proposed to be placed shall have been accepted or opened or shall have

otherwise received the legal status of a public way as provided by law, or unless such lot fronts upon a permanent easement which conforms to the provisions set forth in these regulations.

Provided, further, that when a permanent easement to a public way is used as access to a lot or tract of land having been or being separated by deed or plat from other property, such easement shall be at least fifty (50) feet in width from and after the time of adoption of these regulations and shall not be used to provide access to more than one lot or tract of land.

The above section shall not be construed to prohibit the development of buildings on lots or tracts with permanent access provided by private ways when such development is in the form of condominium ownership of such private improvements which have been approved by the planning commission and will be in private ownership and control in perpetuity.

## **1-112.2 Penalties for Violations**

### **1-112.201 Recording of Unapproved Plats**

No county register shall receive, file, or record a plat of a subdivision within the planning region without the approval of the planning commission as required in Sections 13-3-402 and 13-4-302, Tennessee Code Annotated, and any county register so doing shall be deemed guilty of a misdemeanor, punishable as other misdemeanors as provided by law. Any county register, receiving, filing or recording a plat of a subdivision in violation of Subsection 1-112.103, of these regulations, shall be deemed guilty of a violation of the above cited provision of the Tennessee Code.

### **1-112.202 Use of Unapproved Plats**

Section 13-3-410 and 13-4-306, Tennessee Code Annotated, provides that whoever being the owner or agent of the owner of any land transfers, or sells or agrees to sell or negotiates to sell such land by reference to or exhibition of or by other use of a plat of subdivision of such land without having submitted a plat of such subdivision to the planning commission and obtained its approval as required before such plat be recorded in the office of the appropriate county register, shall be deemed guilty of a misdemeanor punishable as other misdemeanors as provided by law; and the description by metes and bounds in the instrument of transfer or other document used in the process of selling or transferring shall not exempt the transaction from such penalties. The city through its city attorney may enjoin such transfer or sale or agreement by action of injunction.

### **1-112.203 Illegal Buildings**

Any building or structure erected or to be erected in violation of the subdivision regulations shall be deemed an unlawful building or structure; and the building inspector or the city manager or other official designated by the chief legislative body may bring action or enjoin such erection or cause it to be vacated or removed as provided in Section 13-3-411 and 13-4-308, Tennessee Code Annotated.

### **1-112.3 Civil Enforcement**

#### **1-112.301 General**

Appropriate actions and proceedings may be taken in equity to prevent any violation of these regulations, to prevent unlawful construction, to recover damages; to restrain, correct, or abate a violation, or to prevent illegal occupancy of a building, structure, or premise; these remedies shall be in addition to the penalties described in Subsection 1-112.2, of these regulations.

#### **1-112.302 Specific Statutory Remedies**

- a. **Use of Unapproved Plats** -- The county, through its attorney or other official designated by the city council, may enjoin by action for injunction any transfer of, sale of, or agreement to sell any land in violation of Subsection 1-112.104, of these regulations.
- b. **Erection of Unlawful Buildings** - Where any building or structure is erected or being erected on any lot in violation of the road or easement frontage requirements of Subsection 1-112.109, of these regulations, the city building official or the city attorney or other official designated by the city council may bring action to enjoin such erection or cause the building or structure to be vacated or removed.
- c. **Enforcement of Bonds** -- Where a bond is accepted in lieu of completion of subdivision improvements and utilities as provided in Article III of these regulations.

### **1-113 Repeal of Previous Regulations**

Upon the adoption and effective date of these regulations, the Subdivision Regulations of Hartsville/Trousdale County, Tennessee, adopted, **March 10, 1975**, as amended, are hereby repealed.

**ARTICLE II**  
**PROCEDURES FOR PLAT APPROVAL**

**2-101 General Procedure**

**2-101.1 Plat Approval Requirements**

Before any contract is executed for the sale of any parcel of land which is proposed to be subdivided and before any permit for the erection of any structure in a proposed subdivision shall be granted, the subdividing owner or his authorized agent shall apply for and secure the planning commission's approval of the proposed subdivision in accordance with the procedures of this article.

**2-101.2 Classification of Subdivisions**

The planning commission shall classify each subdivision proposal as either major or minor as defined herein.

**2-101.201 Review Procedure**

The subdivider shall follow the procedure described below in order to secure plat approval.

a. **Minor Subdivision**

- (i) Preapplication conference with the enforcing officer including submittal of a scale drawing or survey of the proposed subdivision for preliminary discussion and review.
- (ii) Securing of approvals from other public agencies and any affected utility districts or companies.
- (iii) Submittal of a final plat, prepared, in accordance with the specifications in Section 5-104, herein, for approval by the planning commission.
- (iv) When a subdivision divides a tract into no more than two (2) lots and does not involve any street, permanent easement or public utility construction to serve such lot(s), the approval may be endorsed in writing on the plat by the Secretary of the Planning Commission upon certification by the enforcing officer and staff representative that the subdivision complies in all respects with these regulations and all other adopted ordinances and policies of the governing body; provided, further that no request for a variance from these regulations or of any other adopted ordinances or policies has been requested or will be required as a result of said approval.  
**(Added by Resolution, July 13, 1999)**

- (v) Any person authorized to endorse approval in writing on the final plat, as provided in Subsection 2-101.201, a, (iv), herein, may refuse to endorse approval of the plat and request consideration of the plat by the Planning Commission at the next regularly scheduled meeting of the body. **(Added by Resolution, July 13, 1999)**

b. Major Subdivision

- (i) Preapplication conference on the subdivision with the planning commission and/or staff assistant to the planning commission, generally including a sketch plat, and discussion of the proposed area to be subdivided.
- (ii) Submittal of a sketch plat, prepared in accordance with Section 5-101, herein, for planning commission approval.
- (iv) Securing of approval from other public agencies.
- (v) Submittal of the final subdivision plat, prepared in accordance with Section 5-104, herein for planning commission approval.

**2-101.3 Official Submission Date**

For the purpose of these regulations, for both major and minor subdivisions, the date of the regular meeting of the planning commission at which the public hearing on the final subdivision plat, including any adjourned date thereof, is closed, shall constitute the official submittal date of the plat at which the statutory period required in Section 13-3-404 and 13-4-304, Tennessee Code Annotated, for formal approval or disapproval of the plat shall commence.

**2-101.4 Policy on Flood Prone Areas**

In determining the appropriateness of land subdivision at any site containing a flood-prone area, the planning commission, in reviewing any plat, shall consider the policy and purpose set forth in Section 1-104, of these regulations, and additionally:

1. the danger to life and property due to the increased flood heights or velocities, either potential or actual, caused by subdivision fill, roads, and intended uses;
2. the danger that intended uses or improvements may be swept onto other lands or downstream to the injury of others;
3. the adequacy of proposed water supply, sanitation, and drainage systems, and the ability of these systems to function under flood conditions;

4. the susceptibility of the proposed facility and its contents to flood damage and the effect of such damage upon the individual owner;
5. the importance of the services provided by the proposed facility to the community at large;
6. the requirements of the subdivision for a waterfront location;
7. the availability of alternative locations not subject to flooding for the proposed subdivision and land uses;
8. the compatibility of the proposed uses with existing development or development anticipated in the foreseeable future;
9. the relationship of the proposed subdivision to the land development plan and the floodplain management program for the area;
10. the safety of access to the property for emergency vehicles in times of flood;
11. the expected heights, duration, velocity, rate of rise, and sediment transport of the floodwaters expected at the site;
12. the costs of providing governmental services during and after flood conditions, including maintenance and repair of public utilities and facilities such as sewer, gas, electrical, and water systems, public ways, and bridges; and
13. the effect of the proposed subdivision upon the planning commission's participation in the National Flood Insurance Program, if such planning commission is, or elects to be, in the program.

No subdivision or part thereof shall be approved by the planning commission if proposed levees, fills, structures, or other features within the subdivision will individually or collectively, increase flood flows, heights, duration, or damages. The regulatory limits (the one hundred-year flood level) shall be determined from the latest approved floodstudy for the jurisdictional area, and any subsequent revisions, thereto. Specific engineering studies are to be formulated by the developer in those areas in which flood data are not currently available, if deemed necessary by the planning commission.

In any instance in which the planning commission determines that a proposed subdivision may affect the flood height, velocity, or duration in any flood-prone area outside its jurisdiction, the commission shall take all actions necessary and proper to ensure the coordinated review of the development with the appropriate governmental agencies of the affected area.

In approving plans for subdivision of land containing flood-prone areas, the planning commission shall ensure that development will proceed in such a way that property lying within any floodway, as defined by these regulations, will be maintained in a manner as prescribed by any zoning ordinance. The planning

commission shall also ensure that development within any floodway fringe area (within the one hundred-year flood level) will be protected adequately against potential flood hazards by the methods prescribed in Article IV, of these regulations.

The planning commission shall disapprove the subdivision of any land containing a flood prone area when the commission determines that subdivision plans are not consistent with the policy stated in this section.

## **2-101.5 Special Provisions Governing Unit Ownership (Condominium) Subdivisions**

### **2-101.501 General Provisions**

- a. **Intent** -- This section is intended to augment the general legislation of Sections 66-27-101 through 66-27-123, Tennessee Code Annotated, entitled, "Horizontal Property Act," by providing supplemental rules and regulations for the implementation of the act, as specifically authorized in Section 66-27-121, Tennessee Code Annotated.
- b. **Applicability** -- Whenever a developer, the sole owner, or the co-owners of a building or buildings expressly declare through the submission of a master deed, lease, or plat their desire to submit their property to a regime, as established and provided by Sections 66-27-101 through 66-27-123, Tennessee Code Annotated, wherein there is established a horizontal property regime, each such condominium or horizontal property regime created under the authority of these provisions for the purpose of sale or transfer of real property is subject to the provisions of these regulations.

### **2-101.502 Submission of Plat Required**

Prior to the sale or transfer of any property incorporated in the property regime, the developer, sole owner, or co-owners of such property shall submit to the planning commission a subdivision plat of such property in the manner prescribed by this article; such plat, if approved, shall be filed with the county register in the manner prescribed by this article.

### **2-101.503 Determination of Subdivision Type**

Condominium subdivisions shall be classified by the planning commission during the plat review process as either horizontal condominiums or vertical condominiums as defined in Article VI, of these regulations.

### **2-101.504 Procedure**

An applicant seeking approval of a condominium subdivision shall proceed through the normal procedure for subdivision approval, as set forth in this article.

## **2-101.505 Contents of Plans and Documents**

The plats, plans, and documents submitted by an applicant seeking approval of condominium subdivision shall conform with the specifications set forth in Article V of these regulations.

## **2-102 Sketch Plat (Major Subdivisions Only)**

### **2-102.1 Purpose of Sketch Plat**

The applicant shall submit a sketch plat to the planning commission for approval. The sketch plat is to be a concept plan for design purposes and should be used to discover all factors which may have an impact on the proposed development and to advise the subdivider of various possibilities before substantial amounts of time and money have been invested in a very detail proposal which may contain elements contrary to these regulations.

### **2-102.2 Sketch Plat Requirements**

The sketch plat shall include the information set forth in Section 5-101.

### **2-102.3 Approval of Sketch Plat**

When a sketch plat is submitted for planning commission approval, the number of copies required and timing of the submission shall be as for a preliminary plat. Approval of the plat shall constitute authorization to prepare detailed plans and specifications.

### **2-102.4 Expiration of Approval**

The approval of the sketch plat shall expire within one (1) year if no further progress is made toward the development. An extension may be granted upon proper application.

## **2-103 Preliminary Plat (Major Subdivisions Only)**

### **2-103.1 Application Procedure and Requirements**

The applicant shall file with the planning commission a preliminary plat. The failure of the applicant to satisfy the requirements of this section with full and correct information shall be cause for disapproval of a preliminary plat. The preliminary plat shall be prepared in accordance with Section 5-102, and:

1. be presented at the office of the enforcing officer at least fifteen (15) days prior to a regular (officially opened) meeting of the planning commission;
2. include all land which the applicant proposes to subdivided and all land immediately adjacent, extending two hundred (200) feet therefrom, or of that directly opposite thereto, extending two hundred (200) feet from the public way frontage of such opposite land. The lot pattern of surrounding development shall be shown within that area located within two hundred (200) feet of the proposed development;

3. be accompanied by a minimum of ten (10) copies of the preliminary plat as described herein; and
4. be accompanied by a minimum of four (4) copies of construction plans as described in Section 5-103, of these regulations.

### **2-103.2 Administrative Review**

An administrative review meeting shall be conducted on the preliminary plat, construction plans, and any exhibits submitted in conformance with these regulations. This review shall include the staff assistant to the planning commission and any other appropriate governmental representative. The review shall be held prior to the regularly scheduled planning commission meeting at which the plat is to be reviewed. The findings of the review committee shall be presented to the planning commission.

With expert assistance, as necessary, the subdivider shall prepare a report, on any proposed subdivision containing or abutting a floodprone area. Such report shall estimate the discharge of the regulatory flood; determine the specific flooding threat at the site of the proposed subdivision; and indicate whether the subdivision is located in a floodway or floodway fringe area by:

1. calculation of water surface elevations and regulatory flood protections based upon a hydraulic analysis of the capacity of the stream channel and overbank areas to convey the regulatory flood;
2. computation of the floodway required to convey the regulatory flood without increasing natural flood heights of the regulatory flood more than one foot at any point; and
3. unless otherwise established, computation of increase in flood heights caused by any encroachment shall be based upon the reasonable assumption that there will be an equal degree of encroachment on both sides of the stream within that reach. No increase in flood storage attributable to encroachments on the floodplain of any river or stream shall be permitted in any one reach or for the cumulative effect of several reaches.

### **2-103.3 Notice of Hearing**

A planning commission shall hold a hearing as required by Chapter 3 and 4, of Title 13, Tennessee Code Annotated, on each plat brought before it.

### **2-103.4 Preliminary Approval**

After the planning commission has reviewed the preliminary plat, construction plans, exhibits, and the results of administrative review, the applicant shall be advised of any required changes. The planning commission shall approve, conditionally approve, or disapprove the preliminary plat within thirty (30) days after date of the regular meeting of the planning commission at which the hearing on preliminary approval, including adjourned date thereof, is closed.

A certificate of preliminary approval shall be issued by the secretary of the planning commission, upon demand, and the applicant may proceed to apply for final subdivision plat approval in the manner prescribed by Section 2-104 of these regulations.

After the planning commission approves, conditionally approves, or disapproves the preliminary plat, one copy of the proposed preliminary plat shall be returned to the developer with the date of approval, conditional approval, or disapproval thereon. If a preliminary plat is disapproved the planning commission shall state specific reasons for disapproval which shall be entered into the minutes of the meeting.

Before the planning commission approves a preliminary plat showing land for any public use, the planning commission shall obtain approval for the land reservation from the planning commission or appropriate governmental agency.

### **2-103.5 Public Improvements**

The planning commission may require that all public improvements be installed and dedicated prior to the signing of the final subdivision plat by the secretary of the planning commission. If the planning commission does not require that all public improvements be installed and dedicated prior to signing of the final subdivision plat, an adequate performance bond shall be approved. The amount of such bond shall be established by the planning commission based upon the recommendation of the appropriate governmental representative or by receipt of cost bids from two (2) or more independent contracting firms equal to the cost of all necessary improvements, plus an additional ten (10) percent to cover inflation shall be added. It is the subdivider's responsibility to furnish these estimates to the planning commission.

Such bond shall be submitted by the applicant at the time of application for final subdivision plat approval. The planning commission shall require the applicant to indicate on the plat all public ways and improvements to be dedicated; all districts for water, fire, and utility improvements which shall be required to be established or extended; and any other special requirements deemed necessary by the planning commission in order for the subdivision plat to conform to the major street or road plan and the land development plan for the jurisdictional area.

### **2-103.6 Effective Period of Preliminary Approval**

The approval of a preliminary plat shall be effective for a period of twelve (12) months, at the end of which time final approval of the subdivision plat must have been obtained from the planning commission, although the plat need not have been signed and filed with the county register. Any plat not receiving final approval within the period of time set forth herein shall be null and void, and the developer shall be required to submit a new plat for approval subject to any zoning provisions and the subdivision regulations currently in effect. Prior to the expiration of the preliminary approval and upon proper request by the developer, the approval may be extended for one (1) additional year if the commission deems such to be advisable based upon progress made in developing subdivision.

## **2-103.7 Zoning Regulations**

Every plat shall conform to any existing zoning regulations and subdivision regulations applicable at the time of proposed final approval, except that any plat which has received preliminary approval shall be exempt from any subsequent amendments to such zoning ordinance or these regulations rendering the plat nonconforming as to bulk, use, or development standards, provided, that final approval is obtained within the effective period of preliminary approval set forth in Subsection 2-103.6, herein.

## **2-104 Final Subdivision Plat (Minor and Major Subdivision)**

### **2-104.1 Application Procedure and Requirements**

A subdivider shall file with the planning commission a final plat. The plat shall be prepared in accordance with Section 5-104, and:

1. include the entire subdivision, or section thereof, for which final approval is sought;
2. be accompanied by a minimum of ten (10) copies of the final subdivision plat as described herein.
3. comply substantially with the preliminary plat, where such plat is required;
4. be presented at the office of the enforcing officer at least ten (10) days prior to the regular meeting of the commission at which it is to be considered;
5. be accompanied by formal irrevocable offers of dedication to the public of all public ways and uses, utilities, parks, and easements, in a form approved by legal counsel, as applicable. (The subdivision plat shall be marked with a notation indicating the formal offers of dedication as shown in Article V, of these regulations.);
6. be accompanied by a performance bond, if required, in a form satisfactory to legal counsel and in an amount adequate to complete the required improvements. It shall include provisions that the principal of the bond shall comply with all the terms of the resolution of final subdivision plat approval, as determined by the planning commission, including, but without limitations, the performance of all required subdivision and offsite improvements, and that all improvements and land included in the irrevocable offers of dedication shall be dedicated to the planning commission free and clear of all liens and encumbrances on the premise(s);
7. be accompanied by written assurance from any public utility companies serving the area of the subdivision that necessary utilities will be installed and by proof that the applicant has submitted petitions in writing for the creation or extension of any utility districts as required by the planning commission upon preliminary plat approval; and

8. be accompanied, if the final plat contains open space, or recreational facilities, of if any portion of the site is in common ownership, by the following documentation for approval by the planning commission:
  - (a) plans for improvement and maintenance of the open space or facilities located thereon;
  - (b) articles of incorporation and bylaws of the co-owners association or other legal entity (where open space or facilities are to be deeded to a co-owners association by similar organization acting on behalf of the joint owners of said property) charged with improving or maintaining the open space or facilities, and declaration of covenants and restrictions pertaining to each and every property within the subdivision; and
  - (c) declaration of covenants and restrictions pertaining to open space and facilities which assure the continued use of said facilities for the purpose intended, where open space or facilities are to be retained by the developer.
9. all lots be approved as a building site if appropriate and all easements shall be approved by the planning commission if properly designed and located.
10. be accompanied by an appropriate soils analysis done by a licensed professional soils scientist.

#### **2-104.2 Endorsement of Notations**

The notations and certifications required by Subsection 5-104.3, of these regulations, to appear upon the final plat shall be endorsed by appropriate officials and other persons prior to application for final subdivision plat approval, except that the certificate of planning commission approval shall be signed at the time specified in Section 2-105, of these regulations.

#### **2-104.3 Hearing and Decision on Final Plat**

The planning commission shall hold a hearing as required by Section 13-4-404 and 13-4-304, Tennessee Code Annotated, on each final plat brought before it. The planning commission shall, within the appropriate number of days after submission of the plat, approve, modify, or disapprove the final subdivision plat by resolution, which shall set forth in detail any conditions to which the approval is subject, or reasons for disapproval. In no event shall the period of time stipulated by the planning commission for completion of required improvements exceed one (1) year from the date of final resolution.

Failure of the planning commission to act upon a plat within the prescribed time shall be deemed approval of the plat, and in such event, a certificate of approval, entitling the subdivider to proceed as specified in Subsection 2-104.4 and Section 2-105, of these regulations, shall be issued, upon demand, by the secretary of the planning commission. The applicant, however, may agree to an extension of the time for planning commission review.

One (1) copy of the final subdivision plat shall be returned to the subdivider with the date of approval, conditional approval, or disapproval noted thereon.

#### **2-104.4 Vested Rights**

No vested rights shall accrue to any plat be reason of preliminary or final approval until the actual signing of the plat by the secretary of the planning commission. All requirements, conditions, or regulations adopted by the planning commission, applicable to the particular subdivision or to all subdivision generally, shall be deemed a condition of approval for any subdivision prior to the time of the signing of the final plat by the secretary of the planning commission. Where the planning commission has required the installation of improvements prior to the signing of the final plat, the planning commission shall not modify unreasonably the conditions set forth in the resolution of final approval.

### **2-105 Signing and Recording of Subdivision Plat**

#### **2-105.1 Signing of Plat**

1. When a bond is required, the secretary of the planning commission shall endorse approval on the plat after the bond has been approved by the planning commission and after all the conditions of the resolution pertaining to the plat have been satisfied.
2. When installation of improvements is required, the Secretary of the Planning Commission shall endorse approval on the plat after all conditions of the resolution have been satisfied and all improvements satisfactorily completed. There shall be written evidence that the required public facilities have been installed in a manner satisfactory to the planning commission as shown on certifications by the appropriate governmental representative(s) that necessary land dedications and improvements have been accomplished.
3. When the conditions of this section are satisfied, the secretary shall sign the permanent reproducible original of the subdivision plat.

#### **2-105.2 Recording of Plat**

It shall be the responsibility of the enforcing officer to file plat with the county register's office within ten (10) days of the date of signature. Simultaneously, with the filing of the plat, the enforcing officer shall record the agreement of dedication together with such legal documents as shall be required to be recorded by legal counsel.

#### **2-105.3 Sectionalizing Major Subdivision Plats**

Prior to granting final approval of a major subdivision plat, the planning commission may permit the plat to be divided into two (2) or more sections and may impose such conditions upon the filing of each section as it may deem necessary to assure the orderly development of the subdivision.

The planning commission may require that a performance bond be in such amount as is commensurate with the section or sections of the plat to be filed and may defer the remaining required performance bond principal amount until the remaining sections of the plat are offered for filing. The developer also may file irrevocable offers to dedicate public ways and improvements in the section offered to be filed and defer filing offers of dedication for the remaining sections until such sections, subject to any conditions imposed by the planning commission, shall be granted concurrently with final approval of the plat. Such authorized sections must contain at least ten (10) percent of the total number of lots contained in the proposed plat unless a specific waiver of this requirements is granted by the planning commission.

## ARTICLE III

### ASSURANCE FOR COMPLETION AND MAINTENANCE OF IMPROVEMENTS

#### **3-101 Improvements and Performance Bond**

##### **3-101.1 Completion of Improvements**

Before the final subdivision plat is signed by the planning commission officer specified in Subsection 2-105.1, of these regulations, all applicants shall complete, in accordance with the planning commission's decision and to the satisfaction of the appropriate governmental representative, all public way, sanitary, and other improvements, including lot improvements on the individual lots of the subdivision, as required in these regulations and approved by the planning commission, and shall dedicate such improvements to the planning commission free and clear of all liens and encumbrances on the property and public improvements thus dedicated.

##### **3-101.2 Surety Instrument**

The planning commission at its discretion may waive the requirement that the applicant complete and dedicate all public improvements prior to the signing of the final subdivision plat by providing that, as an alternative, the applicant post a bond at the time of submission for final subdivision approval in an amount estimated by the planning commission as sufficient to guarantee to the governing body the satisfactory construction, installation, and dedication of the incompleting portion of required improvements. (See Subsection 2-103.5.)

Such performance bond shall comply with all statutory requirements and shall be satisfactory to legal counsel as to form, sufficiency, and manner of execution, as set forth in these regulations. The period within which required improvements must be completed shall be specified by the planning commission in the resolution approving the final subdivision plat and shall be incorporated in the bond and shall not exceed two (2) years from date of final approval.

Such bond shall be approved by the planning commission as to amount and conditions. The planning commission may, upon proof of difficulty, extend the completion date set forth in such bond for a maximum period of one (1) additional year. The planning commission may accept at any time during the period of such bond a substitution of principal.

##### **3-101.3 Temporary Improvements**

The applicant shall build and pay for all costs of temporary improvements required by the planning commission, and shall maintain them to a reasonable satisfaction for the period specified by the planning commission. Prior to construction of any temporary facility or improvement, the applicant shall file with the planning commission a separate suitable bond for temporary facilities, which shall ensure that the temporary facilities will be properly constructed, maintained, and removed.

### **3-101.4 Costs of Improvements**

All required improvements shall be made by the applicant at his expense. Any provisions for reimbursement by the governing body or any utility agency shall be stipulated clearly in the provisions of any bonds.

### **3-101.5 Governmental Units**

Governmental units to which these bonds and contract provisions apply may file, in lieu of said contract or bond, a certified resolution or ordinance from officers or agencies authorized to act in their behalf agreeing to comply with the provisions of this article.

### **3-101.6 Failure to Complete Improvements**

In subdivisions for which no performance bond has been posted, if the improvements are not completed within the period specified by the planning commission in the resolution approving the plat, the approval shall be deemed to have expired. In those cases in which a performance bond has been posted and required improvements have not been installed within the terms of such performance bond, the planning commission thereupon may declare the bond to be in default and require that all the improvements be installed regardless of the extent of the building development at the time the bond is declared to be in default.

### **3-101.7 Acceptance of Dedication Offers**

Acceptance of formal offers of dedication of public ways, easements, and parks shall be by formal action of the governing body. Such action shall be in the form of a resolution recommended by the planning commission to the governing body. The approval by the planning commission of a subdivision plat shall not be deemed to constitute or imply an acceptance by the local government of any public way, easement, or other ground shown on the plat. The planning commission may require the plat to be endorsed with appropriate notes to this effect.

## **3-102 Inspection of Improvements**

### **3-102.1 General Procedure**

The planning commission may provide for inspection of required improvements during construction and ensure their satisfactory completion. If the appropriate governmental representative finds upon inspection that any of the required improvements has not been constructed in accordance with the governing body's construction standards and specifications, the applicant shall be responsible for completing the improvements to the required standards. Whenever the cost of improvements is covered by a performance bond, the applicant and the bonding company shall be liable severally and jointly for completing said improvements according to specifications.

### **3-102.2 Release or Reduction of Performance Bond**

#### **3-102.201 Certificate of Satisfactory Completion**

The planning commission shall not recommend dedication of required public improvements nor shall the planning commission release nor reduce a performance bond until the appropriate governmental representative submits a certificate stating that all required improvements have been satisfactorily completed, and until the applicant's engineer or surveyor has certified to the planning commission and the appropriate governmental representative (through submission of a detailed "as built" surveyor of the subdivision indicating location, dimensions, construction materials, and any other information required by the planning commission) that the layout and the line and grade of all public improvements are in accordance with the approved construction plans for the subdivision. Upon such approval and recommendation, the governing body, thereafter, may accept the dedicated improvements in accordance with the procedures set forth in Subsections 1-112.107 and 3-101.7, of these regulations.

#### **3-102.202 Reduction of Performance Bond**

A performance bond may be reduced upon actual dedication and acceptance of public improvements and then only to the ratio that the public improvement dedicated bears to the total public improvements for the plat. In no event shall a performance bond be reduced below twenty-five (25) percent of the principal amount prior to final acceptance of all items covered under the bond.

### **3-103 Maintenance of Improvements**

The applicant shall be required to maintain all improvements including all lot improvements, until acceptance of the public improvements by the governmental body.

The applicant may be required to file a maintenance bond with the planning commission prior to dedication, in an amount considered adequate by the appropriate governmental representative and in a form satisfactory to legal counsel in order to assure the satisfactory condition of the required improvements, including all lot improvements, for a period of one year after the date of acceptance of the public improvements by the planning commission.

### **3-104 Deferral or Waiver of Required Improvements**

The planning commission may defer or waive at the time of final approval, subject to appropriate conditions, the provision of any or all such improvements as, in its judgment, are not requisite in the interest of the public health, safety, and general welfare, or which are inappropriate because of inadequacy or lack of connecting facilities.

Whenever it is deemed necessary by the planning commission to defer the construction of any improvement required herein because of incompatible grades, future planning, inadequate or lack of connecting facilities, or other reasons, the developer shall either

pay his share of the costs of the future improvements to the planning commission prior to signing of the final subdivision plat by the appropriate governmental representative(s) or post a bond or other surety instrument ensuring completion of said improvements upon demand of the planning commission.

### **3-105 Escrow Deposits for Lot Improvements**

#### **3-105.1 Acceptance of Escrow Funds**

Whenever, by reason of the season of the year, any lot improvements required by these regulations cannot be performed, the enforcing officer nevertheless may issue a certificate of occupancy upon accepting a cash escrow deposit in an amount to be determined by the appropriate governmental representative for the cost of such improvements; provided, there otherwise is no danger to the health, safety, or general welfare. The performance bond covering such lot improvements shall remain in full force and effect.

#### **3-105.2 Procedures on Escrow Fund**

All required improvements for which escrow moneys have been accepted by the enforcing officer at the time of issuance of a certificate of occupancy shall be installed by the developer within a period of nine (9) months from the date of deposit and issuance of the certificate of occupancy. In the event that the improvements have not been installed properly at the end of the time period, the enforcing officer shall provide written notice of two (2) weeks to the developer requiring him to install the improvements, and in the event they are not installed properly, in the judgment of the enforcing officer, he may request the planning commission to proceed to install or to contract for the installation of the necessary improvements in a sum not to exceed the amount of the escrow deposit.

At the time of the issuance of the certificate of occupancy for which escrow moneys are being deposited, the applicant shall obtain and file with the enforcing officer, prior to obtaining the certificate of occupancy, a notarized statement from the purchaser(s) of the premise authorizing the enforcing officer to install the improvements at the end of the nine (9) month period in the event the improvements have not been installed properly by the developer.

### **3-106 Issuance of Building Permits and Certificates of Occupancy**

- A. Where a performance bond has been required for a subdivision, or any section of a subdivision, no certificate of occupancy for any building in the subdivision or section thereof shall be issued prior to the completion and dedication of the improvements to the appropriate governmental unit, as required in the planning commission's resolution of final approval of the subdivision plat.
- B. The extent of public way improvements shall be adequate for vehicular access by the prospective occupant and by police and fire equipment prior to the issuance of an occupancy certificate. The developer shall at the time of the dedication submit monies in escrow to the planning commission in a sum to be determined by the appropriate governmental representative.

- C. No building permit shall be issued for the final ten (10) percent of lots in a subdivision, or if ten (10) percent be less than two (2) lots, for the final two (2) lots of a subdivision, until all public improvements required by the planning commission's resolution of final plat approval have been fully completed, dedicated, and accepted by the governmental body.

## ARTICLE IV

### REQUIREMENTS FOR IMPROVEMENTS, RESERVATIONS, AND DESIGN

#### 4-101 General Requirements

##### 4-101.1 Conformance to Applicable Rules and Regulations

In addition to the requirements established herein, all subdivision plats shall comply with all applicable laws, ordinances, resolutions, rules, or regulations, including, but not limited to:

1. all applicable provisions of Tennessee Law, regulations, or policy;
2. any zoning ordinance, any building and housing codes, and all other applicable laws or policies of the planning commission;
3. the adopted general plan and major road or streets (public way) plan;
4. the rules of the county health department and the Tennessee Department of Health and Environment;
5. the rules, as applicable, of the Federal Highway Administration or Tennessee Department of Transportation, if the subdivision or any lot contained therein abuts a nonlocal highway; and
6. the standards and regulations adopted by all other boards, commissions, and agencies of the planning commission, where applicable.

Plat approval may be withheld if a subdivision is not in conformity with the above rules or with the provisions set forth in Section 1-104, of these regulations.

##### 4-101.2 Self-Imposed Restrictions

If the owner places restrictions on any of the land contained in the subdivision greater than those required by any zoning ordinance or these regulations, such restrictions or reference thereto shall be recorded with the county register on a separate form, along with the final subdivision plat in the office of the county register.

##### 4-101.3 Monuments

The subdivider shall place permanent reference monuments on the subdivision as required herein and as approved by a licensed surveyor. Monuments shall be located and set as follows.

1. Monuments shall be located on public way right-of-way lines, at public way intersections, and sections, and at the beginning and ending point of curves. All monuments shall be spaced so as to be within sight of each other.

2. The external boundaries of a subdivision shall be monumented in the field by monuments of stone or concrete or iron not less than two feet-six inches (2'-6") in length; not less than four (4) inches square or five (5) inches in diameter; and marked on top with a cross, brass plug, iron rod, or other durable material securely embedded. These monuments shall be placed not more than fourteen hundred (1,400) feet apart in any straight line and at all corners or breaks at each end of all curves, at the point where a curve changes its radius, at all angle points in any line, and at all angle points along a meander line, said points to be not less than twenty (20) feet back from the bank of any river or stream, except that when such corners or points fall within a public way or proposed future public way, the monuments shall be placed on the side line of the public way. **(Amended by Resolution, July 13, 1999)**
3. All internal boundaries and those corners and points not referred to in the preceding paragraph shall be monumented in the field by like monuments as described above. Such monuments shall be placed at each end of all curves, at a point where a river changed its radius, and at all angle points in any line. All lot corners not falling on any of the above described points shall be marked by iron rods, pipe, or pins at least eighteen (18) inches long and five-eighths (5/8) inch in diameter.
4. The lines of lots that extend to rivers or stream shall be monumented in the field by iron pins at least eighteen (18) inches long and five-eighths (5/8) inch in diameter or by round or square iron bars at least eighteen (18) inches long. Such pins shall be placed at the point of intersection of the river or stream and lot line, with a meander line established not less than twenty (20) feet back from the bank of the river or stream.
5. All monuments and pins shall be properly set in the ground and approved by a surveyor or an engineer engaged in the practice of civil engineering prior to the time the planning commission recommends approval of the final plat or release of the bond where bond is made in lieu of improvements.

#### **4-101.4 Character of the Land**

Land which the planning commission finds to be unsuitable for subdivision or development due to flooding, improper drainage, steep slopes, rock formations, adverse earth formations or topography, utility easements, or other features which would be harmful to the safety, health, and general welfare of inhabitants of the land and surrounding areas shall not be subdivided or developed unless adequate methods are formulated by the developer and approved by the planning commission, upon recommendation of any staff assistant serving the planning commission and/or other governmental representative, if any, to solve the problems created by the unsuitable land conditions. Such land shall be set aside for such uses as will not involve such a danger.

Where protection against flood damage is necessary, in the opinion of the planning commission, flood-damage protection techniques may include, as deemed appropriate by the planning commission:

1. the imposition of any surety and deed restrictions enforceable by the planning commission to regulate the future type and design of uses within the flood-prone areas; and
2. flood protection measures designed so as not to increase, either individually or collectively, flood flows, height, duration, or damages, and so as not to infringe upon the regulatory floodway.
3. installation of flood warning systems.
4. the use of fill, dikes, levees, and other protective measures.
5. the use of floodproofing measures, which may include:
  - (a) anchorage to resist flotation and lateral movement.
  - (b) installation of watertight doors, bulkheads, shutters, or other similar methods of closure.
  - (c) reinforcement of walls to resist water pressures.
  - (d) use of paints, membranes, or mortars to reduce seepage through walls.
  - (e) addition of mass or weight to structures to resist flotation.
  - (f) installation of pumps to lower water levels in structures.
  - (g) construction of water supply and waste treatment systems so as to prevent the entrance of or contamination of flood waters.
  - (h) installation of pumps or comparable facilities for subsurface drainage systems to relieve external foundation wall and basement flood pressures.
  - (i) building design and construction to resist rupture or collapse caused by water pressure of floating debris.
  - (j) installation of valves or controls on sanitary and storm drains which permit the drains to be closed to prevent backup of sewage and stormwater into buildings or structures.
  - (k) location and installation of all electrical equipment, circuits, and appliances so that they are protected from inundation by the regulatory flood.

- (l) location of storage facilities for chemicals, explosives, buoyant material, flammable liquids, or other toxic materials which would be hazardous to the public health, safety, and welfare at or above the regulatory flood protection elevation, or design of such facilities to prevent flotation of storage containers or damage to storage containers which could result in the escape of toxic materials.

The acceptability of any flood protection methods formulated by the subdivider or his agent shall be determined by the planning commission, which shall be guided by the policies set forth in Section 1-104 and Subsection 2-101.4, of these regulations.

All such flood protection measures shall be designed so as not to increase, either individually or collectively, flood flows, heights, duration, or damages so as not to infringe upon the regulatory floodway.

#### **4-101.5 Subdivision Name**

The proposed name of the subdivision shall not duplicate or too closely approximate phonetically the name of any other subdivision in the area covered by these regulations. The planning commission shall have authority to designate the name of the subdivision which shall be determined at sketch or preliminary plat approval.

### **4-102 Lot Requirements**

#### **4-102.1 Lot Arrangement**

##### **4-102.101 General**

The lot arrangement shall be such that there will be no foreseeable difficulties, for reasons of topography, flood hazards, or other conditions in securing building permits to build on all lots in compliance with any zoning ordinance and state and county public health department regulations and in providing driveway access to buildings on such lots from an approved public way.

##### **4-102.102 Solar Access**

Where a reasonably feasible lot arrangement shall be such that building sites will afford maximum utilization of energy conservation measures, such as providing for solar access purposes.

##### **4-102.103 Lots Subject to Flood**

Where a lot in any flood prone area must be improved to provide a building site free from flooding, such improvements shall be made outside the floodway by elevation or fill to at least the regulatory flood protection elevation (one hundred-year flood) for a distance extending at least twenty-five (25) feet beyond the limits of intended structures and,

additionally, extending a sufficient distance to include areas for subsurface sewage disposal if the lot is not to be connected to a public sanitary sewer system. Any fill shall be protected against erosion by rip-rap, vegetative cover, or other methods deemed acceptable by the planning commission.

In nonresidential building sites outside a floodway but subject to flooding, the use of structural floodproofing methods specified in Subsection 4-101.4, of these regulations, as an alternative to landfill, may be approved by the planning commission, as provided in Subsection 2-101.4, of these regulations.

#### **4-102.104 Lots Located on Steep Slopes**

Due to the potential threat to health and safety posed by development located on lands with slopes in excess of fifteen (15) percent, the following regulations shall apply.

- a. **Site Development Plan Required** -- No building permit shall be issued for a building or any lot with slopes fifteen (15) percent or over until a site plan meeting the following requirements has been approved by the planning commission. Said site plan shall show:
  - (i) The exact size, shape, and location of the lot,
  - (ii) The proposed location of all buildings, driveways, drainageways, and utilities,
  - (iii) Proposed contours at vertical intervals of no more than five (5) feet,
  - (iv) The extent of natural tree cover and vegetation,
  - (v) The location of any onsite soil absorption sewage disposal systems,
  - (vi) The type and location of erosion control methodology.
  - (vii) The surveyor's or engineer's stamp that prepared the plan,
  - (viii) Certification as to the stability of the structures and slope and compliance with sound construction methods for areas with steep slopes and landslide problems by a registered civil or geotechnical engineer.
- b. **Site Development Standards** -- The following standards shall be used as a guide in determining the suitability of the construction proposed for the particular site in question. The engineer's certification required in Subsection 4-102.104, a, (viii), above, shall address these standards.

- (i) Natural vegetation shall be preserved to the maximum extent possible,
- (ii) Natural drainageways and systems shall be maintained, except that surface water may be diverted around a house or slope area to a natural drain using acceptable construction techniques,
- (iii) Development densities shall be limited to one (1) dwelling unit per two (2) acres of land,
- (iv) Operations that increase loads, reduce slope support, and cause instability of the slope shall be prohibited to the maximum extent possible which will permit reasonable development of the site. These include filling, irrigation systems, accessory buildings, and onsite soil absorption sewage disposal systems,
- (v) Where sanitary sewers are not available any onsite sewage disposal system shall be shown on the site plan and located to avoid slide-prone areas. Said system shall be approved by the county health department prior to the planning commission's review taking into account these requirements,
- (vi) Erosion control measures shall be employed to prevent all soil material from leaving the site. Additionally, soil from excavation on the site shall not be disposed as fill on a potential slide area,
- (vii) No construction which would cut the top of the slope shall be permitted. This shall apply as well to subdivision roads constructed in compliance with these regulations.

#### **4-102.2 Lot Dimensions**

Lot dimensions shall comply with the minimum standards of any zoning ordinance, where applicable. Where lots are more than double the minimum area required by any zoning ordinance, the planning commission may require that such lots be arranged so as to allow further subdivision and the opening of future public ways where they would be necessary to serve such potential lots, all in compliance with any zoning ordinance and these regulations. Generally side lot lines shall be at right angles to street lines or radial to curving street lines.

The minimum lot frontage on a public way shall be fifty (50) feet except for radius of a cul-de-sac which shall be thirty (30) feet.

Dimensions of the corner lots shall be large enough to allow for erection of buildings, observing the minimum front yard setback requirements from both public way rights-of-way.

Depth and width of properties reserved or laid out for business, commercial, or industrial purposes shall be adequate to provide for the off-street parking and loading facilities required for the type of use and development contemplated, and as established in any zoning ordinance.

**4-102.3 Building Setback Lines**

In the case of electric transmission lines where easement widths are not definitely established, a minimum building setback line from the center of the transmission line shall be established as follows:

<u>Voltage of Line</u>	<u>Building Setback</u>
7.2 KV	15 feet
13 KV	25 feet
46 KV	37 1/2 feet
69 KV	50 feet
161 KV	75 feet

**4-102.4 Double Frontage Lots and Access to Lots**

**4-102.401 Double Frontage Lots**

Double frontage and reversed frontage lots shall be avoided except where necessary to provide separation of residential development from traffic arterials, or to overcome specific disadvantages of topography and orientation.

**4-102.402 Access from Arterial or Collector Public Ways**

The planning commission may require that lots shall not derive access exclusively from arterial or collector public ways. Where driveway access from such public ways may be necessary for several adjoining lots, the planning commission may require that the lots be served by a combined access drive in order to limit possible traffic hazards. Driveways shall be designed and arranged so as to avoid requiring vehicles to back onto arterial or collector public ways.

**4-102.5 Soil Preservation, Grading, Erosion Control, and Seeding**

**4-102.501 Soil Preservation and Final Grading**

No certificate of occupancy shall be issued until final grading has been completed in accordance with the approved construction plan and the lot precovered with soil having an average depth of at least six (6) inches and containing no particles over two (2) inches in diameter over the entire area of the lot, except that portion covered by buildings or included in streets or where the grade has not been changed or natural vegetation seriously damaged.

Topsoil shall not be removed from residential lots or used as spoil, but shall be redistributed so as to provide at least six (6) inches of cover on the lots and at least four (4) inches of cover between any sidewalks and curbs, and be stabilized by seeding or planting.

#### **4-102.502 Lot Drainage**

Lots shall be laid out so as to provide positive drainage away from all buildings, and individual lot drainage shall be coordinated with the general storm drainage pattern for the area which includes subsurface drainage. Drainage shall be designed so as to avoid concentration of storm drainage water from each lot to adjacent lots.

The planning commission reserves the right to set minimum elevations on all floors, patios, and building equipment. This prerogative to establish elevation exists in addition to any ordinances that refer to floodplain elevation requirements. The content of the preceding paragraph is to give summary review powers over any calculated or historical evidence of storm water presence in overland or channel conditions.

The subdivision developer will insure that all artesian ground waters of a permanent or temporary nature will be intercepted and carried away to primary drainage conduits along swaled ditches or in underground pipes on property line easements. Regardless of the location of property lines, intercept will be allowed by the planning commission at the point of artesian surfacing. The intent of this paragraph is to prevent flooding by overland flow. The developer is obligated to perform this work upon evidence of artesian water for a period of one (1) year following acceptance of all roads and utilities.

Any sinkhole or natural channel served at any time as a means of moving ground water into the subterreanean will be protected by structure as approved by the planning commission. The allowed alternative to this is the construction of an alternative means of storm water relief as approved by the planning commission. In any event, location and elevation of future construction will be designated to allow for the worst possible conditions.

#### **4-102.503 Erosion and Sediment Control**

There shall be a minimization of changes in the rate of natural erosion and sedimentation which result from the development process. An erosion and sediment control plan shall be presented with the construction plans submitted in conformance with Section 5-103 of these regulations. Such plans shall incorporate the following principals:

- a. clearing and grading shall be integrated with layout design;
- b. clearing shall be minimized and existing vegetation shall be preserved to the maximum feasible degree;

- c. grading shall be strictly limited to those areas involved in current construction activities;
- d. disturbed areas shall be protected and stabilized as soon as possible;
- e. structural and vegetative measures to control the velocity and volume of runoff shall be required;
- f. sediment basins and traps shall be required as necessary;
- g. adequate maintenance of all planting and structures measures shall be assured.

#### **4-102.6 Debris and Waste**

No cuts trees, timber, debris, junk, rubbish, or other waste materials of any kind shall be buried in any land or left or deposited on any lot or public way at the time of the issuance of a certificate of occupancy for the lot, and removal of such waste shall be required prior to issuance of any certificate of occupancy. Neither shall any such waste be left nor deposited in any area of the subdivision at the time of expiration of the performance bond or dedication of public improvements, whichever is sooner.

#### **4-102.7 Fencing**

Each subdivider or developer shall be required to furnish and install all fences wherever the planning commission determines that a hazardous condition exists. Such fences shall be constructed according to standards established by the planning commission, as appropriate, and shall be noted on the final plat as to height and required materials. No certificate of occupancy shall be issued for any affected lot until such fence improvements have been installed.

#### **4-102.8 Water Bodies and Watercourses**

If a tract being subdivided contains a water body, or portion thereof, lot lines shall be so drawn as to distribute the entire ownership of the water body among the fees of adjacent lots. The planning commission may approve an alternative plan whereby the ownership of and responsibility for safe maintenance of the water body is so placed that it will not become a governmental responsibility.

No more than ten (10) percent of the minimum area of a lot required under any zoning ordinance may be satisfied by land which is under water. Where a watercourse separates a buildable area of a lots from the public way by which it has access, provisions shall be made for installation of culvert or other structure approved by the planning commission and no certificate of occupancy shall be issued for a structure on such a lot until the installation is completed and approved by the planning commission and/or the appropriate governmental representative.

**4-102.9 Width to Depth Ratio (Added by Resolution, October 6, 1998)**

No lot when subdivided shall have a greater width to depth than one to five (1:5); therefor, when any lot is subdivided from an existing lot or tract, no side lot line shall be greater than five (5) times the length of the front lot line. Lots that front along the radius of a cul-de-sac and lots that are greater than five (5) acres in area are exempt from this requirement.

**4-103 Public Ways**

**4-103.1 General Requirements**

**4-103.101 Frontage on Improved Public Ways**

No subdivision shall be approved unless the area to be subdivided shall meet the requirements for access set forth in Subsection 1-112.107, of these regulations. If any new street construction or improvements are involved, such shall be approved and, where public dedicated as provided in Articles 2 and 3, of these regulations. Any such public way must be suitably improved to the standards required by this article or be bonded by a performance bond required under these regulations, with the roadway and right-of-way widths required by this article or the major street or road plan.

**4-103.102 Grading and Improvement Plan**

Public ways shall be graded and improved to conform to the standards required by this section and shall be approved as to design and specification by the appropriate governmental representative in accordance with the specifications required herein. No surface shall be applied to the base of any proposed public way prior to the approval of the final plat of the subdivision or of the final approval of any section of the subdivision in question without having been properly inspected.

**4-103.103 Improvements in Floodable Areas**

The finished elevation of proposed public ways subject to flood shall be no more than one foot below the regulatory flood protection elevation. The planning commission may require profiles and elevations of public ways to determine compliance with this requirement. All drainage structures shall be sufficient to discharge flood flows without increasing flood height. Where fill is used to bring the finished elevation of any public way to the required elevation, such fill shall not encroach upon a floodway, and the fill shall be protected against erosion by rip-rap, vegetative cover, or other methods deemed acceptable by the planning commission.

**4-103.104 Private Streets**

Where the ownership, control and maintenance of any street is proposed to remain in private ownership such streets shall be constructed to the

design and construction standards for public ways as herein provided. A permanent access easement over such streets shall be provided to each and every parcel or lot which is to gain access therefrom. All such private improvements shall be maintained by the developer/owner or by a legally established homeowners' association or other similar group approved by the planning commission. The legal documents establishing ownership and maintenance of the easement shall be submitted with the final plat for review and approval and shall be recorded with the final plat.

#### **4-103.105 Topography and Arrangement**

- a. All public ways shall be arranged so as to obtain as many of the building sites as possible at or above the grades of the public ways. Grades of public ways shall conform as closely as possible to the original topography. A combination of steep grades and curves shall not be permitted. Specific design standards are contained in Subsection 4-103.2, of these regulations.
- b. The use of public ways running in a east-west direction and lots on a north-south axis is encouraged for energy conservation of developments.
- c. All public ways shall be properly integrated with the existing and proposed system of public ways and dedicated rights-of-way as established on the major street or road plan or the land development plan.
- d. All public ways shall be properly related to special traffic generators, such as industries, business districts, schools, churches, and shopping areas or centers; to population densities; and to the pattern of existing and proposed land use.
- e. Minor public ways shall be laid out to conform as much as possible to the topography; to discourage use by through traffic; to permit efficient drainage and utility systems; and to require the minimum ways necessary to provide convenient and safe access to property.
- f. The use of curvilinear streets, cul-de-sac, or "U"-shaped streets shall be encouraged where such use will result in a more desirable layout.
- g. Proposed public ways shall be extended to the boundary lines of the tract to be subdivided, unless prevented by topography or other physical conditions or unless, in the opinion of the planning commission, such extension is not necessary or desirable for the coordination of the subdivision design with the existing layout or the most advantageous future development of adjacent tracts.
- h. In business and industrial developments, public ways and other access routes shall be planned in connection with the grouping of buildings, location of rail facilities, and the provision of alleys, truck

loading and maneuvering areas, and walks and parking areas, so as to minimize conflict of movement between the various types of traffic, including pedestrian traffic.

#### **4-103.106 Blocks**

- a. Blocks shall have sufficient width to provide for two (2) tiers of lots of appropriate depth. Exceptions to this prescribed block width may be permitted in blocks adjacent to major public ways, railroads, or waterways.
- b. The lengths, widths, and shapes of blocks shall be determined with due regard to:
  - (i) provision of adequate building sites suitable to the special needs of the type of use contemplated;
  - (ii) any zoning requirements as to lot sizes and dimensions;
  - (iii) needs for convenient access, circulation, control, and safety of vehicular and pedestrian traffic; and
  - (iv) limitations and opportunities of topography.
- c. Block lengths in residential areas shall not exceed sixteen hundred (1,600) feet nor be less than two hundred (200) feet, except as the planning commission deems necessary to secure efficient use of land or desired features of the public way pattern. Wherever practicable, blocks along arterial or collector routes shall not be less than one thousand (1,000) feet in length.
- d. Blocks designed for industrial or commercial uses shall be of such length and width as may be deemed suitable by the planning commission.
- e. In any long block, the planning commission may require the reservation of an easement through the block to accommodate utilities, drainage, facilities, and/or pedestrian traffic.

A pedestrian walkway, not less than ten (10) feet wide, may be required by the planning commission through the approximate center of any block more than eight hundred (800) feet long, where deemed essential to provide circulation or access to a school, playground, shopping center, transportation facility, or other community facility.

#### **4-103.107 Access to Arterials and Collectors**

Where a subdivision borders on or contains an existing or proposed arterial or collector route, the planning commission may require that access to such public way be limited by:

- a. the subdivision of lots so as to back on the arterial or collector route and front on a parallel minor route;
  - b. a series of cul-de-sac, "U" shaped public ways, or short loops entered from and designed generally at right angles to such a parallel public way, with the rear lines of their terminal lots backing onto the arterial or collector route; or
- (3) a marginal access or service public way, separated from the arterial or collector route by a planting or grass strip and having access thereto at suitable points.

The number of residential or local public ways entering on arterial or collector routes shall be kept to a minimum.

**4-103.108 Reserve Strips**

The creation of reserve strips adjacent to a proposed public way in such a manner as to deny access from adjacent property to such public way shall generally not be permitted.

However, in extraordinary circumstances the planning commission may allow creation of a reserve strip to enable a more appropriate pattern of lots or public ways. Where such is created the planning commission must agree to any and all future depositions of same. A notation to this effect shall be entered on the final plat or approved as an auxiliary instrument attached thereto.

**4-103.109 Arrangement of Continuing and Dead-End Public Ways**

- a. **Arrangement of Continuing Public Ways** -- The arrangement of public ways shall provide for the continuation of major public ways between adjacent properties when such continuation is necessary for convenient movement of traffic, effective fire protection, efficient provisions of utilities, and when such continuation is in accordance with the major street or road plan. If the adjacent property is undeveloped and the public way must be a dead-end public way temporarily, the right-of-way shall be extended to the property line. A temporary cul-de-sac, temporary T-, or L-shaped turnabout shall be provided on all temporary dead-end public ways as required in the following turnabout standards, with a notation on the subdivision plat that land outside the normal public way right-of-way shall revert to abutting property owners whenever the public way is continued.
- b. **Dead-End Public Ways** -- Where a public way does not extend beyond the boundary of the subdivision and its continuation is not required by the planning commission for access to adjoining property, its terminus shall normally not be nearer to such boundary than fifty (50) feet. However, the planning commission

may require the reservation of an appropriate easement to accommodate drainage facilities, pedestrian traffic, or utilities. A cul-de-sac turnabout shall provided at the end of a dead-end public way in accordance with the design standards of these regulations.

For greater convenience to traffic and more effective police and fire protection, permanent dead-end public ways shall, in general, be limited in length in accordance with the design standards of these regulations.

#### **4-103.2 Design Standards**

##### **4.103.201 Purpose**

In order to provide public ways of suitable location, width, and improvement to accommodate prospective traffic and afford satisfactory access to police, fire-fighting, sanitation, and road-maintenance equipment, and to coordinate public ways so as to compose a convenient and safe system and avoid undue hardships to adjoining properties, the public way design standards set forth in this section are hereby required. (Public way classification shall be as indicated on the land development plan or major street or road plan; otherwise, the public way shall be classified by the planning commission according to the definitions in Article VI, of these regulations.)

##### **4-103.202 General Design**

The general design of all public ways shall conform to the standards in the tables entitled "General Design Standards for Public Ways", which follow hereafter.

##### **4-103.203 Intersections**

- a. Public ways shall be laid out so as to intersect as nearly as possible at right angles. A proposed intersection of two (2) new public ways at an angle of less than seventy-five (75) degrees shall not be permitted. An oblique public way should be curved approaching an intersection and should be approximately at right angles for at least one hundred (100) feet therefrom. Not more than two (2) public ways shall intersect at any one point unless specifically approved by the planning commission.
- b. Proposed new intersections along one side of an existing public way shall coincide, wherever practicable, with any existing intersections on the opposite side of such public way. Jogs within public ways having center line offsets of less than one hundred fifty (150) feet shall not be permitted, except where the intersected public ways have separated dual drives without median breaks at either intersection. Where public ways intersect arterial or collector routes, their alignment shall be continuous. Intersections of arterial or collector public ways shall be at least eight hundred (800) feet apart.

- c. Minimum curb radius at the intersection of two (2) minor public ways shall be twenty-five (25) feet, and minimum curb radius at an intersection involving a collector public way shall be thirty (30) feet. Alley intersections and abrupt changes in alignment within a block shall have the corners cut off in accordance with standard engineering practice to permit safe vehicular movement.
- d. Where a public way intersection will involve earth banks or existing vegetation inside any lot corner that would create a traffic hazard by limiting visibility, the subdivider shall cut such ground or vegetation (including trees) in connection with the grading of the public right-of-way to the extent necessary to provide adequate site distance.
- e. Intersection shall be designed with a flat grade wherever practical, In hilly or rolling areas, at the approach to an intersection, a leveling area shall be provided having not greater than a two (2) percent grade for a distance of sixty (60) feet, measured from the nearest right-of-way line of the intersecting public way.
- f. The cross-slope on all public ways, including intersections, shall be three (3) percent or less.

**4-103.204 Excess Right-of-Way**

A slope easement in excess of the right-of-way designated in these regulations may be required whenever, due to topography, additional width is necessary to provide adequate earth slopes. Such slopes shall not be less than three to one (3:1). Where solid rock is encountered slopes shall be one-half to one (1/2:1).

**4-103.205 Railroads and Limited Access Highways**

Railroad right-of-way and limited access highways, where so located as to affect the subdivision of adjoining lands, shall be treated as follows:

- a. In residential areas, a buffer strip at least twenty-five (25) feet in depth in addition to the normally required depth of the lot may be required adjacent to the railroad right-of-way or limited access highway. This strip shall be part of the platted lots and shall be designated on the plat: "This strip is reserved for screening; the placement of structures hereon is prohibited."
- b. In commercial or industrial areas, the nearest public way extending parallel or approximately parallel to the railroad shall, wherever practicable, be at a sufficient distance therefrom to ensure suitable depth for commercial or industrial.

## GENERAL DESIGN STANDARDS FOR PUBLIC WAYS

IMPROVEMENT	RESIDENTIAL PUBLIC WAY	NONRESIDENTIAL PUBLIC WAY (INDUSTRIAL, COMMERCIAL: OTHER)
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**Minimum Right-of-Way Width (in Feet)**

Minor	50	60
Collector	60	60 or (See * Below)
Arterial	*	

**Minimum Width of Roadway or Paved Area (in Feet) not Including Parking Requirements**

	Ditch Section	Curb & Gutter	Ditch Section	Curb & Gutter
Minor	24	28	24	38
Collector	24	38	24	38
Arterial	(See * Below)			(See * Below)

**Maximum Percentage Grade**

Minor	10	
Collector	7	6
Arterial	6	5

**Pavement Crown**

The paved surface shall slope downward from the centerline of the street outward to the edge of the paved surface on each side 2/5ths of an inch per foot.

**Minimum Center Line Radius of Curve (in Feet)\*\***

Minor	100	200
Collector	300	300
Arterial	500	500

\* As determined by appropriate governmental representative.

\*\* Applies where a deflection angle of 15 degrees or more in the alignment of pavement occurs.

**GENERAL DESIGN STANDARDS FOR PUBLIC WAYS (Continued)**

<b>IMPROVEMENT</b>	<b>PUBLIC WAYS</b>	<b>NONRESIDENTIAL PUBLIC WAY (INDUSTRIAL, COMMERCIAL: OTHER)</b>
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**Minimum Length of Vertical Curves**

<b>Minor</b>	<b>100 feet, but not less than 20 feet for each algebraic difference in grade.</b>
<b>Collector</b>	<b>100 feet, but not less than 20 feet for each algebraic difference in grade.</b>
<b>Arterial</b>	<b>300 feet, but not less than 50 feet for each algebraic difference in grade.</b>

**Minimum Length of Tangents Between Reverse Curves (in Feet)**

<b>Minor</b>	<b>100</b>	<b>200</b>
<b>Collector</b>	<b>100</b>	<b>200</b>
<b>Arterial</b>	<b>300</b>	<b>400</b>

**Minimum Sight Distance (in Feet)\***

<b>Minor</b>	<b>200</b>	<b>250</b>
<b>Collector</b>	<b>240</b>	<b>250</b>
<b>Arterial</b>	<b>300</b>	<b>400</b>
<b>Intersection</b>	<b>Across Corners 75 feet back</b>	<b>Across Corners 75 feet back</b>

**Minimum Turnaround on Cul-de-sacs on Minor Public Ways (in Feet)**

<b>Right-of-way Diameter</b>	<b>100</b>	<b>160</b>
<b>Pavement Diameter</b>	<b>80</b>	<b>140</b>

**Length of Cul-de-sac**

<b>Permanent</b>	<b>1,000 feet</b>
<b>Temporary</b>	<b>1,000 feet</b>

**Minimum Radius (in Feet) of Return at Intersections**

<b>At Right-of-way</b>	<b>25</b>	<b>30</b>
<b>At Pavement</b>	<b>30</b>	<b>50</b>

\* The sight distance is measured from a point 4 1/2 feet above the center line of the roadway surface to a point 4 inches above the center line of the roadway surface.

- c. Public ways parallel to a railroad, when intersecting a public way which crosses the railroad at grade, shall to the extent practicable, be at a distance of at least one hundred fifty (150) feet from the railroad right-of-way. Such distance shall be determined with due consideration of the minimum distance required for future separation of grades by means of appropriate approach gradients.

#### **4-103.206 Bridges**

Bridges of primary benefit to the subdivider, as determined by the planning commission, shall be constructed at the full expense of the subdivider without reimbursement from the planning commission. The sharing of expenses for the construction of bridges not of primary benefit to the subdivider, as determined by the planning commission, shall be fixed by special agreement between the planning commission and the subdivider. The cost shall be charged to the subdivider pro rata as to the percentage of his development so served.

#### **4-103.3 Right-of-Way Width Dedication on Existing Public Ways**

Where a subdivision adjoins an existing narrow public way or where the major street or road plan or any zoning setback provisions indicate plans for realignment or widening of a public way that would require use of some of the land in the subdivision, the subdivider shall be required to dedicate, at his expense, areas for widening or realigning such public way as set forth below:

1. the entire right-of-way shall be provided where any part of the subdivision is on both sides of the existing public way; or
2. when the subdivision is located on only one side of an existing public way, one-half (1/2) of the required right-of-way, measured from the center line of the existing pavement, shall be provided.

#### **4-103.4 Public Way Surfacing and Improvements**

After underground utilities have been installed, the subdivider shall construct curbs or curbs with gutters, where required, and shall surface or cause to be surfaced public ways to the widths prescribed in these regulations. No public way shall be surfaced until preliminary approval of the subdivision plat has been obtained. Surfacing shall be of such character as is suitable for the expected traffic. Types and methods of paving shall be according to the specifications of the planning commission, but in no event shall such construction be below the construction specifications set forth in Appendix \_\_\_\_\_, of these regulations. Adequate provisions shall be made for culverts or other drains, and bridges, as required.

All public ways pavements, shoulders, drainage improvements and structures, any curb turnabouts, and sidewalks shall conform to all construction standards and specifications adopted by the planning commission and shall be incorporated into the construction plans required to be submitted by the developer for plat approval.

#### **4-104 Road Construction Specifications**

The road construction specifications are included in these regulations as Appendix \_\_\_\_, and are adopted as a part hereof. These specifications shall be the minimum standards for any subdivision within the jurisdictional area.

#### **4-105 Drainage and Storm Sewers**

##### **4-105.1 General Requirements**

The planning commission shall not approve any plat of a subdivision which does not make adequate provisions for stormwater or floodwater run-off channels or basins. The stormwater drainage system shall be separate and independent from any sanitary sewer system.

##### **4-105.2 Nature of Stormwater Facilities**

###### **4-105.201 Location**

The subdivider may be required by the planning commission to transport by pipe or open ditch any spring or surface water that may exist eight prior to or as a result of the subdivision. Such drainage facilities shall be located in the public way right-of-way, where feasible, or in perpetual unobstructed easements of appropriate width and shall be constructed in accordance with the construction specifications contained in these regulations.

###### **4-105.202 Accessibility to Public Storm Sewers**

- a. Where a public storm sewer is accessible, the developer shall install storm sewer facilities, or if no outlets are within a reasonable distance, adequate provision shall be made for the disposal of stormwaters, subject to the specifications of the appropriate governmental representative; inspection of facilities shall be conducted to assure compliance. Inspection of facilities shall be conducted by the enforcing officer.
- b. If a connection to a public storm sewer will be provided eventually, as determined by the planning commission, the subdivider shall make arrangements for future stormwater disposal by a public system at the time the plat receives final approval. Provisions for such connection shall be incorporated by inclusion in the performance bond required for the final subdivision plat.

###### **4-105.203 Accommodation of Upstream Drainage Areas**

A culvert or other drainage facility shall in each case be large enough to accommodate potential runoff from its entire upstream drainage area, whether inside or outside the subdivision. Necessary facilities shall be sized based on the construction specifications and assuming conditions of maximum potential watershed development permitted by any zoning ordinance.

#### **4-105.204 Effect on Downstream Drainage Areas**

The planning commission also shall study the effect of each subdivision on existing downstream drainage facilities outside the area of the subdivision. Where it is anticipated that the additional runoff incident to the development of the subdivision will overload an existing downstream drainage facility, the planning commission may withhold approval of the subdivision until provision has been made for adequate improvement of such drainage facilities in such sum as the planning commission shall determine. No subdivision shall be approved unless adequate drainage will be provided to an adequate drainage watercourse or facility.

#### **4-105.205 Areas of Poor Drainage**

Whenever a plat is submitted for an area which is subject to flooding, the planning commission may approve such subdivision; provided, that the applicant fills the affected floodway fringe area of said subdivision to place public way elevations at no more than twelve (12) inches below the regulatory flood elevation and first floor elevations (including basements) at no less than one (1) foot above the regulatory flood elevation. The plat of such subdivision shall provide for a floodway along the bank of any stream or watercourse of width sufficient to contain or move the water of the regulatory flood, and no fill shall be placed in the floodway; neither shall any building nor flood-restrictive structure be erected or placed therein. The boundaries of the floodway and floodway fringe area, and the regulatory flood elevation, shall be determined by the planning commission based upon the review specified in Subsection 2-103.2, of these regulations, and the submission of flood data in construction plans as specified in Section 5-103, of these regulations.

#### **4-105.206 Floodplain Areas**

The planning commission may when it deems it necessary for the health, safety, or welfare of the present and future population of the area or necessary to the conservation of water, drainage, and sanitary facilities, prohibit the subdivision of any portion of the property which lies within the floodplain of any stream or drainage course. The regulatory floodway shall be preserved from any and all destruction or damage resulting from clearing, grading, or dumping of earth, waste material, or stumps. Any subdivision which contains flood-prone land shall be subject to the special provisions set forth in Subsections 2-101.4; 4-101.4; Section 4-104; and Subsection 4-105.2, of these regulations.

### **4-105.3 Dedication of Drainage Easements**

#### **4-105.301 General Requirements**

Where a subdivision is traversed by a watercourse, drainageway, channel, or stream, there shall be provided a stormwater easement or drainage right-of-way conforming substantially to the lines of such watercourse and of such width and construction as will be adequate. Where open drainageways are utilized they shall be designed for the fifty (50) year frequency flood.

#### **4-105.302 Drainage Easements**

- a. Where topography or other conditions are such as to make impracticable the inclusion of drainage facilities within a public way right-of-way, perpetual unobstructed easements at least ten (10) feet in width for such facilities shall be provided across property outside the public way lines and with satisfactory access to public ways. Easements shall be indicated on the preliminary and final plats. Drainage easements shall be carried from the public way to a natural watercourse or to other drainage facilities.
- b. When a new drainage system is to be constructed which will carry water across private land outside the subdivision, appropriate drainage rights must be secured and indicated on the plat.
- c. The applicant shall dedicate, when required by the planning commission, either in fee, or by drainage or conservation easement, the land on both sides of an existing watercourse to a distance to be determined by the planning commission.
- d. Along watercourses, low-lying lands within any floodway, as determined by the planning commission pursuant to Section 2-103 of these regulations, whether or not included in areas for dedication, shall be preserved and retained in their natural state as drainage ways.

#### **4-105.303 Ditching, Concrete Ditch Paving, and Culverts and Storm Drains**

The design and construction details of drainage facilities shall be in accordance with the provisions of these regulations. The design and construction details of all such facilities shall be approved by the appropriate governmental representative.

#### **4-106 Water Facilities**

##### **4.106.1 General Requirements**

1. Necessary action shall be taken by the developer to extend a water supply system capable of providing domestic water use and fire protection.
2. Where a public water main is within reasonable access of the subdivision, as determined by the planning commission, the subdivider shall install adequate water facilities, including fire hydrants, subject to construction and material specifications, approval of the planning commission, the Tennessee Department of Health and Environment and these regulations.
3. Where required for fire protection water mains shall not be less than six (6) inches in diameter; where water mains are not to be utilized for fire protection, the planning commission may approve smaller lines, as necessary, to meet potable water demand.

4. All water systems, whether public or private, located in a flood-prone area shall be floodproofed to the regulatory flood protection elevation. All water supply facilities located below the regulatory flood protection elevation shall be designed to prevent the infiltration of floodwaters into the water supply system and discharges from the system into floodwaters.

#### **4-106.2 Fire Hydrants**

Fire hydrants shall be required in all subdivisions; they shall be located no more than one thousand (1,000) feet apart and be within five hundred (500) feet of any residential, commercial, or industrial lot. However, the planning commission may require closer spacing where physical conditions or types of structures so warrant. To eliminate future public way butting or openings, all underground utilities for fire hydrants, together with the fire hydrants themselves, and all other water supply improvements shall be installed before any final paving of a public way shown on the subdivision plat, unless otherwise approved by the planning commission.

### **4-107 Sewage Facilities**

#### **4-107.1 General Requirements**

The applicant shall install sanitary sewer facilities in a manner prescribed by the regulations of the Tennessee Department of Health and Environment and by any other applicable standards and specifications. All plans shall be designed and approved in accordance with the rules, regulations, specifications, and standards, of any applicable governmental agency or appropriate unit thereof.

#### **4-107.2 Mandatory Connection to Public Sewer System**

1. When public sanitary sewers are within reasonable access of the subdivision, as determined by the planning commission, the subdivider shall provide sanitary sewer facilities to each lot therein and shall connect the facilities to the public system. The subdivider shall provide sewers which meet standards set forth in the regulations of the Tennessee Department of Health and Environment.
2. All sanitary sewer facilities located in a flood hazard area shall be floodproofed to the regulatory flood protection elevation. All sewer facilities located below the regulatory flood protection elevation shall be designed to prevent infiltration of floodwaters into the sewer system and discharges from the system into floodwaters.

#### **4-107.3 Individual Disposal System Requirements**

If public sewer facilities are not available and individual disposal systems are proposed, lot areas shall not be less than the minimums specified in these regulations; all pertinent soil absorption tests shall be made as directed by the county environmentalist and the results submitted to the county health department for approval.

The individual disposal system, including the size of the septic tank and size of the tile fields or other secondary treatment device, also shall be approved by the county health department.

The planning commission may prohibit installation of sewage disposal facilities requiring soil absorption systems where such systems will not function due to high groundwater, flooding, or unsuitable soil characteristics. The planning commission may require that the subdivider note on the face of the plat and may deed of conveyance that soil absorption fields are prohibited in designated areas.

**4-107.4 Design Criteria for Sanitary Sewers**

Sanitary sewer systems shall be designed for the ultimate tributary population based upon appropriate plans and zoning regulations.

The minimum size of a public sewer line shall be eight (8) inches in diameter with individual lot service lines a minimum of four (4) inches.

Sanitary sewers shall be located within a public street right-of-way, unless topography dictates otherwise. Public utility easements shall be provided across private property for access to lines and manholes such easements to be of an adequate width for service purposes, but in no case less than twenty (20) feet.

**4-108 Pedestrian Ways**

**4-108.1 Sidewalks and Bicycle Paths**

Sidewalks and bicycle paths, where required by the planning commission, shall be included within the dedicated nonpavement right-of-way of all public ways as indicated in the following table and shall be improved as required by Subsection 4-103.4, of these regulations. Concrete curbs are required for all public ways where sidewalks are to be constructed. A median strip of grassed or landscaped area at least two (2) feet wide shall separate all sidewalks from adjacent curbs.

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**SIDEWALK DESIGN**

<b><u>Class of Street</u></b>	<b><u>Sidewalk Width</u></b>	
	<b><u>Residential Public Way</u></b>	<b><u>Nonresidential Public Way (Industrial, Commercial; Other)</u></b>
<b>Minor Public Way</b>	<b>4 feet wide</b>	<b>6 feet wide</b>
<b>Collector Public Way</b>	<b>5 feet wide</b>	<b>6 feet wide</b>
<b>Arterial Public Way</b>	<b>5 feet wide</b>	<b>6 feet wide</b>

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#### **4-108.2 Pedestrian Accesses**

The planning commission may require, in order to facilitate pedestrian access from the public way to schools, parks, playgrounds, or other nearby public ways, perpetual unobstructed easements at least twenty (20) feet in width. Easements shall be indicated on the plat.

#### **4-109 Utility Easements**

- A. Easements down rear lot lines or additionally across lots, if deemed necessary by the planning commission, shall be provided for utilities (private or public). Such easements shall be at least twenty (20) feet wide. The subdivider shall take such actions as are necessary to ensure the coordination and continuation of utility easements established on adjacent properties with those proposed within his development.
- B. Where topographical or other conditions are such as to make impractical the inclusion of utilities within rear lot lines, perpetual unobstructed easements at least twenty (20) feet in width shall be provided along side lot lines with satisfactory access to public ways or rear lot lines. Easements shall be indicated on the plat.
- C. Temporary construction easements exceeding the width of permanent easements may be required as necessary until completion of any one project.

#### **4-110 Public Uses**

##### **4-110.1 Plat to Provide for Public Uses**

Whenever a tract to be subdivided includes a school, recreation use, a portion of a major public way, or other public use, as indicated on the land development plan and/or major street or road plan, or any portion thereof, such tract shall be suitably incorporated by the developer into his plat when first presented for review by the planning commission.

After proper determination of its necessity by the planning commission and the appropriate governmental representative(s) involved in the acquisition and use of such site, and after a determination has been made to acquire the site by the public agency, the site shall be suitably incorporated by the developer into the plat prior to final approval by the planning commission and recording of the plat.

##### **4-110.2 Referral to the Governmental Agency Concerned**

The planning commission shall refer any plat presented in accordance with Subsection 4-110.1, to the governmental agency concerned with acquisition of the land. The planning commission may propose alternate areas for such acquisition and shall allow the appropriate governmental agency thirty (30) days for reply.

Among the areas which the planning commission may propose for public acquisition, when the commission deems it appropriate and consistent with the policies and purposes set forth in these regulations, is any land within a floodway or floodway fringe determined according to the procedure outlined herein.

The acquiring agency's recommendation, if affirmative, shall include a map showing the boundaries and area of the parcel to be acquired and an estimate of the time required to complete the acquisition.

#### **4-110.3 Notice to Property Owner**

Upon receipt of an affirmative report, the planning commission shall notify the property owner and shall designate on all plats any areas proposed to be acquired by any governmental agency. Upon such designation by the planning commission, any reserved portion of any floodway or floodway fringe shall not be altered from its natural state by the development in any manner whatsoever, except upon written approval of the planning commission.

#### **4-110.4 Duration of Land Reservation**

The acquisition of land reserved by a governmental agency on the final plat shall be initiated within twenty-four (24) months of notification, in writing, from the owner that he intends to develop the land. Such letter of intent shall be accompanied by a plat of a proposed development and a tentative schedule of construction. Failure on the part of the governmental agency to initiate acquisition within the prescribed twenty four (24) months shall result in the removal of the "reserved" designation from the property involved and the freeing of the property for development in accordance with these regulations.

#### **4-111 Preservation of Natural Features and Amenities**

Existing features which would add value to residential development or to the area as a whole, such as trees, watercourses and falls, historic spots, and similar irreplaceable assets, shall be preserved in the design of the subdivision, as required by the planning commission. No change of grade of the land shall be affected nor shall any natural features be removed or relocated until a preliminary subdivision plat has been approved by the planning commission.

#### **4-112 Nonresidential Subdivisions**

##### **4-112.1 General**

If a proposed subdivision includes land which is zoned for a commercial or industrial purpose, the layout of the subdivision with respect to such land shall make such provisions as the planning commission may require. A nonresidential subdivision also shall be subject to all the requirements of site plan approval set forth in any zoning ordinance. Site plan approval may proceed simultaneously at the discretion of the planning commission. A nonresidential subdivision shall be subject to all the requirements of these regulations, as well as such additional standards set forth by the planning commission, and shall conform to the proposed land development plan, major street or road plan, and any zoning ordinance.

#### **4-112.2 Standards**

In addition to the principles and standards in the regulations, which are appropriate to the planning of all subdivisions, the subdivider shall demonstrate to the satisfaction of the planning commission that the public way, parcel, and block pattern proposed is specifically adapted to the uses anticipated and takes into account other uses in the vicinity. The following principles and standards shall be observed:

1. proposed industrial parcels shall be suitable in areas and dimensions to the types of nonresidential development anticipated;
2. public way rights-of-way and pavements shall be adequate to accommodate the type and volume of traffic anticipated;
3. special requirements may be imposed by the governing body with respect to any public way, curb, gutter, and sidewalk design and construction specifications;
4. special requirements may be imposed by the governing body with respect to the installation of public utilities, including water, sewer, and stormwater drainage;
5. very effort shall be made to protect adjacent residential areas from potential nuisance from the proposed nonresidential subdivision, including the provision of extra depth in parcels backing on existing or potential residential development and provisions for permanently landscaped buffer strips, when necessary; and
6. public ways carrying nonresidential traffic, especially trucks, normally shall not be extended to the boundaries of adjacent existing or potential residential areas.

## ARTICLE V

### SPECIFICATIONS FOR DOCUMENTS TO BE SUBMITTED

#### 5-101 Sketch Plat

##### 5-101.1 General

Sketch plats submitted to the planning commission, prepared in pen or pencil, shall be drawn to a convenient scale no smaller than two hundred (200) feet to an inch.

##### 5-101.2 Features

The sketch plat shall show:

1. a scale drawing of the property and the names of the owners of adjoining property;
2. size of the original tract(s) being subdivided;
3. Notation of any existing legal rights-of-way or easements, or other encumbrances affecting the property;
4. approximate topography of the site, at no more than five (5) foot intervals, extended into adjacent properties;
5. any areas which may be affected by flooding;
6. general public way and lot patterns;
7. proposed phasing, if any;
8. vicinity map of property;
9. date and approximate north point;
10. name of owner;
11. name of plat designer; and
12. zoning classification.

#### 5-102 Preliminary Plat

##### 5-102.1 General

The preliminary plat shall be prepared by a surveyor, landscape architect, architect, land planner, or engineer engaged in the practice of civil engineering,

at a convenient scale no smaller than two hundred (200) feet to an inch. The plat may be prepared in pen or pencil, and the sheets shall be numbered in sequence if more than one sheet is used. The map prepared for the preliminary plat may be used for the final subdivision plat and should be permanently reproducible.

### **5-102.2 Features**

The preliminary plat shall include:

1. the location of the property to be subdivided with respect to surrounding property(s) and public way(s);
2. the names of all adjoining property owners of record, or the names of adjoining developments;
3. the names of adjoining public ways;
4. the location and dimensions of all boundary lines of the property, figured to the nearest hundredth (100th) of a foot;
5. the location of existing public ways, easements, water bodies, streams, and other pertinent features, such as swamps, railroads, buildings, parks, cemeteries, drainage ditches, and bridges, as determined by the planning commission;
6. the location and width of all existing and proposed easements, alleys, and other public ways, and building setback lines;
7. the location, dimension, and area of all proposed or existing lots;
8. Culverts, driveway tiles, associated drainage structures sized along with necessary easements; electrical and telephone easements;
9. the position of all existing or proposed buildings within proposed condominium developments;
10. the location and dimension of all property proposed to be set aside for park or playground use or other public or private reservation, with designation of the purpose thereof, and conditions, if any, of the dedication or reservation;
11. the limits of floodway and floodway fringe areas and the associated regulatory flood elevation and regulatory flood protection elevation, as determined according to flood maps or flood studies as required;
12. the name and address of the owner(s) of land to be subdivided, the subdivider if other than the owner, and the land surveyor or other person preparing the plat;
13. the date of the plat, approximate true north point, scale, and title of the subdivision;

14. sufficient data to determine readily the general location, bearing, and length of all lines necessary to reproduce such lines upon the ground;
15. name of the subdivision and all new public ways, as approved by the planning commission;
16. the zoning classification of all zoned lots, as well as an indication of all uses other than residential proposed by the subdivider;
17. the distance and bearing of one of the corners of the boundary of the subdivision to the nearest intersection of existing public ways and to the original corner of the original survey of which it is a part;
18. key map showing relation of the subdivision to all public ways, railroads, and water courses in all directions to a distance of at least one-half (1/2) (suggested scale: one (1) inch to one thousand (1,000) feet);
19. contours at vertical intervals of not more than two (2) feet where the proposed subdivision has an average slope of five (5) percent or less, or at vertical intervals of not more than five (5) feet where the average slope exceeds five (5) percent (contours to be field surveyed or taken from aerial photographs acceptable to the planning commission);
20. map parcel numbers as recorded on the land tax maps of the county;
21. The following notations:
  - (a) explanation of drainage easements;
  - (b) explanation of site easements;
  - (c) explanation of reservations; and
  - (d) for any lot where public sewer or water systems are not available, the following:
    - (i) areas to be used for sewage disposal and their percolation results, or if the planning commission desires, any other acceptable data to show that the site can be served effectively by septic tanks;
    - (ii) water wells (existing and proposed); and
    - (iii) rock outcroppings, marshes, springs, sinkholes, natural storm drains, and other outstanding topographical features;
22. draft of proposed restrictive covenants, if any, to be imposed and designation of areas subject to special restrictions; and

23. a form for endorsement of planning commission approval of the preliminary plat which shall read as follows:

Approved by the Hartsville/Trousdale County Planning Commission, with such exceptions or conditions as are indicated in the minutes of the Commission on \_\_\_\_\_  
date

Preliminary plat approval shall not constitute final approval for recording purposes.

24. Soils map or approved grid percolation test when required by the health department.

### **5-103 Construction Plans**

#### **5-103.1 General**

Construction plans shall be prepared for all improvements required by these regulations. Plans shall be drawn at a scale of no more than fifty (50) feet to an inch. Plans shall be in compliance with the specifications in Article IV, of these regulations. Approval of plans must precede actual construction, and no final plat shall be considered by the planning commission until the required plans have been approved. The construction plans shall be prepared and stamped by a licensed engineer engaged in the practice of civil engineering.

#### **5-103.2 Features**

The following shall be shown on the construction plans.

1. Profiles showing existing and proposed elevations along center lines of all public ways.
2. Where a proposed road intersects an existing public way and ways, the elevation along the center line of the existing public way within one hundred (100) feet of the intersection.
3. Approximate radii of all curves, lengths of tangents, and central angles on all public ways.
4. Proposed public ways, as required by the planning commission; where such are required, horizontal stationing shall be at fifty (50) foot intervals and cross-sectional elevations shall be to an accuracy of one tenth foot vertical on a line at right angles to the center line of the public way at the following points: the center line of the public way, each property line, and points twenty-five (25) feet inside each property line.
5. Plans and profiles indicating the locations and typical cross-section of public way pavements, including curbs and gutters, sidewalks, drainage easements, rights-of-way, manholes, and catch basins.

6. The location of public way signs.
7. The location, size, and invert elevations of existing and proposed sanitary sewers, stormwater drains, and fire hydrants, showing connection to any existing or proposed utility system.
8. Exact location and size of all water, gas, or other underground utilities or structures.
9. Location, size, elevation, and other appropriate description of any existing facilities or utilities, including but not limited to, existing public ways, sewers, drains, water mains, easements, water bodies, streams, and other pertinent features, such as swamps, railroads, buildings, and features noted on the land development plan or major street or road plan.
10. The water elevations of adjoining lakes or streams and the approximate high- and low-water elevations of such lakes or streams shall be shown. All elevations shall be referred to the U.S.G.S. datum plane.
11. If the subdivision borders a lake, river, or stream, the distance and bearings of a meander line established not less than twenty (20) feet back from the ordinary high-water mark of such waterways.
12. The developer shall prepare for any portion of a subdivision containing a flood prone area, or an area known to be subject to flooding, information necessary for the planning commission to determine the suitability of the particular site for the proposed development, as follows:
  - (a) plans in triplicate drawn to scale showing the nature, location, dimensions, and elevation of any part of the subdivision within a flood prone area; existing or proposed structures or building sites, fill, storage of materials and floodproofing measures, as specified in these regulations; and the relationship of the above to the location of the stream channel, floodway, floodway fringe, the regulatory flood elevation, and the regulatory flood protection elevation;
  - (b) a typical valley cross-section showing the channel of the stream, elevation of land areas adjoining each side of the channel, cross-sectional areas to be occupied by the proposed development, and high-water information, if required by the planning commission;
  - (c) surface-view plans showing elevations and contours of the ground;
  - (d) pertinent structures, fill, or elevations of public ways;
  - (e) water supply, sanitary facilities, soil types, and other pertinent information, as required by the planning commission; and

- (f) specifications for building construction and materials, flood proofing, filling, dredging, grading, storage of materials, water supply, and sanitary facilities.
- 13. Contours at the same vertical interval as on the preliminary plat.
- 14. In addition to the other requirements of this section, construction plans for condominium subdivisions shall contain "as built" drawings of all underground utilities, regardless of proposed ownership, and the construction design of all public facilities which are proposed for dedication to the governing body.
- 15. A notation of construction plans approval by appropriate persons or governmental representatives.
- 16. Title, name, address, stamp and signature of engineer who prepared the plans.
- 17. Date of plans, including any revision dates.
- 18. An erosion and sediment control plan shall be prepared for each development required to submit construction plans. Such plan shall demonstrate the manner in which the general principals for erosion and sediment control set out in Subsection 4-102.503 are to be implemented on the site covered by the construction plans.

## **5-104 Final Subdivision Plat**

### **5-104.1 General**

The final subdivision plat shall be prepared on transparent drafting material at a scale no smaller than two hundred (200) feet to the inch on sheets of county register plat book size. The use of an appropriate smaller scale may be permitted for lots larger than two (2) acres. When more than one (1) sheet is required, an index sheet of the same size shall be filed showing the entire subdivision with the sheets numbered in sequence.

Construction plans, if required as described in Section 5-103 of these regulations, shall have been approved prior to planning commission approval of the final subdivision plat.

### **5-104.2 Features**

The final plat shall include:

- 1. The location of the property to be subdivided with respect to surrounding property(s) and public ways.
- 2. The names of all adjoining property owners of record or the names of adjoining developments.

3. The names of adjoining public ways.
4. The exact boundary lines of the tract, determined by a field survey, showing angles to the nearest minute and distance to the nearest one hundredth of a foot. The adjusted accuracy of the survey shall meet or exceed the standards set forth in Title 62, Chapter 18, of the Tennessee Code Annotated, for the class of survey required by these regulations. The class of survey shall be determined according to the average size of lots (see Table below) within the proposed subdivision. The survey shall be tied into the Tennessee Grid Coordinate System.

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### ACCURACY OF SURVEYS

<u>Average Lot Size</u>	<u>Unadjusted Accuracy</u>
One (1) Acre or Less	Class "B" Suburban Land Survey
Greater than One (1) Acre but Less than Ten (10) Acres	Class "C" Rural Land Survey
Ten (10) Acres or More	Class "D" Farm land Survey

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A distance and bearing shall be provided which will link a point on the boundary of the subdivision to a monument in the right-of-way of the nearest prominent public way intersection.

5. The location of all public ways, easements, water bodies, large streams or rivers, railroads, parks, and cemeteries.
6. The limits of floodway and floodway fringe areas and the regulatory flood elevation and regulatory flood protection elevation; as determined by the planning commission.
7. The location and width of all easements and rights-of-way for public ways, as well as the building setback lines on all lots.
8. The location, dimensions, and area of all lots. All dimensions shall be field run to the nearest one hundredth of a foot and angles to the nearest minute. Lot areas shall be shown to the nearest tenth of a square foot.
9. The location, area, and dimensions, to the accuracy set forth in Item 8 above, of all property to be set aside for park or playground use or other public or private reservation, with a designation of the purpose thereof, and conditions, if any, of the dedication or reservation.

10. The final plat of a condominium subdivision shall contain, in addition to the other information required by this section:
  - (a) an "as-built" building location and boundary survey, to "American Land Title Association" or other similar standards, showing complete and accurate dimensions and angles of the boundary of the parcel(s) on which the condominium is located, together with exterior dimensions and locations relative to those boundaries of the building(s) which constitute the condominium subdivision;
  - (b) some sort of datum plane or other suitable vertical location reference. In meeting these requirements, it is only necessary that the upper and lower limits of each level of each condominium unit be identified specifically in relation to the vertical reference, (e.g., an appropriate permanent monument or other acceptable reference datum or fixed known point). Elaborate exterior elevations and architectural detail are not necessary to satisfy this requirement; and
  - (c) copies of deed covenants, the charter and by-laws of any homeowners' association established; and special information which the planning commission may require to protect the rights of future owners of the condominium or the public in general.
11. The name and address of the owner(s) of the land being subdivided.
12. The name and address of the subdivider if other than the owner.
13. The name and stamp of the land surveyor or other person preparing the plat.
14. The date of the plat, approximate true north point, scale, and title of the subdivision.
15. Sufficient data to determine readily the location, bearing, and length of all lines necessary to reproduce such lines upon the ground. This shall include the radius, central angle, and tangent distance for the center line of the curved public ways and curved property lines that are not the boundary of curved public ways. The location of all monuments and pins shall be indicated on the plat.
16. The names of all public ways.
17. The zoning classification of all lots, as well as an indication of uses other than residential proposed by the subdivider.
18. The total acreage within the subdivision.
19. Lot numbers, where required.
20. The line size and location of water and sewer facilities.

21. The location of all fire hydrants.
22. The diameter and width of all driveway culverts.
23. For any lot where public sewer or water system is not available, the following shall be shown:
  - (a) areas to be used for sewage disposal; and
  - (b) water wells (existing and proposed).
24. Applicable certifications in the form reproduced in this section shall appear upon the final plat. All required certificates shall bear the signature of the approving or authorizing agent at the time of application for final plat approval, except that the form for endorsement of the planning commission's approval for recording shall appear unsigned at the time of application for approval.
25. State Department of Health and Environment, public water and sewer design layout and approval stamps, if applicable; also, actual design plans for filing in appropriate governmental representative's office.
26. Commitment notes may be printed or stamped on the final plat reflecting location and dimension of easements, or extent of other agreements or factual data, in lieu of drafted illustration, when applicable, and as approved by the planning commission.

**5-104.3 Plat Certificates**

1. Certification showing that the applicant is the landowner; that he offers for dedication public ways, rights-of-way, and any site for public use; and that he consents to the subdivision plan.

**CERTIFICATE OF OWNERSHIP AND DEDICATION**

**I (we) hereby certify that I am (we are) the owner(s) of the property shown and described hereon as evidenced in Book Number \_\_\_\_\_, page \_\_\_\_\_, County Registers Office, and that I (we) hereby adopt this plan of subdivision with my (our) free consent, establish the minimum building restriction lines, and that offers or irrevocable dedication for all public ways, utilities, and other facilities have been filed.**

\_\_\_\_\_, 19\_\_\_\_  
Date

\_\_\_\_\_  
Owner

\_\_\_\_\_  
Title (if acting for partnership or corporation)

2. Certification by a registered land surveyor as to the accuracy of the land survey.

### CERTIFICATE OF SURVEY ACCURACY

I (we) hereby certify that to the best of my (our) knowledge and belief this is a true and accurate survey of the property shown hereon; that this is a Class "\_\_\_\_\_" Land Survey, as defined in Title 62, Chapter 18, Tennessee Code Annotated, and that the ratio of precision is greater than or equal to 1:\_\_\_\_\_.

\_\_\_\_\_, 19\_\_\_\_  
Date

\_\_\_\_\_  
Registered Land Surveyor Number \_\_\_\_\_

3. Certification by appropriate governmental or quasi-governmental official(s) that sewage disposal and/or water system(s) has/have been installed.

### CERTIFICATE OF APPROVAL OF WATER SYSTEM

I hereby certify that the water system(s) outlined or indicated on the final subdivision plat entitled \_\_\_\_\_ has/have been installed in accordance with current local and state government requirements, or a sufficient bond or other surety has been filed to guarantee said installation.

\_\_\_\_\_, 19\_\_\_\_  
Date

\_\_\_\_\_  
Name, Title and Agency or  
Authorized Approving Agent

### CERTIFICATE OF APPROVAL OF SEWER SYSTEMS

I hereby certify that the sewer systems outlined or indicated on the final subdivision plat entitled \_\_\_\_\_ have been installed in accordance with current local and state government requirements or a sufficient bond or cash has been filed which will guarantee said installation.

Sewer System \_\_\_\_\_, 19\_\_\_\_  
Date

\_\_\_\_\_  
Name, Title, and Agency of  
Authorized Approving Agent



**CERTIFICATION OF COMMON AREAS DEDICATION**

\_\_\_\_\_ in recording this plat has designated certain areas of land shown hereon as common areas intended for use by the homeowners within \_\_\_\_\_  
(Name of Subdivision)

for recreation and related activities. The above described areas are not dedicated for use by the general public, but are dedicated to the common use of the homeowners within the named subdivision.

"Declaration of Covenants and Restrictions," applicable to the above named subdivision, is hereby incorporated and made a part of this plat.

\_\_\_\_\_, 19\_\_\_\_  
Date Owner

- 6. Certification on the final plat of planing commission approval for recording of the plat.

**CERTIFICATE OF APPROVAL FOR RECORDING**

I hereby certify that the subdivisions plat shown hereon has been found to comply with the \_\_\_\_\_ Subdivision Regulations, with the exception of such variances, if any, as are noted in the minutes of the planning commission, and that it has been approved for recording in the Office of the County Register.

\_\_\_\_\_, 19\_\_\_\_  
Date Secretary, Planning Commission

- 7. **Notation of Possible Flooding** -- If any portion of the land being subdivided is subject to flooding as defined in these regulations, a notation shall be made on the plat that development or modification of the land within any floodway delineated within plat is prohibited and that development within floodway fringes delineated on the plat shall be done in such a manner that any structure shall be protected against flood damage to at least the regulatory flood protection elevation, which elevation shall be stated in the notation. Any additional restrictions imposed by the planning commission upon development within flood prone areas also shall be indicated on the plat.
- 8. **Notation of Health Restrictions** -- Any modifications or limitations which may be imposed by the state or county health department shall be clearly indicated on the plat.

9. **Notation of Private Restrictions** -- Private restrictions and trusteeships and their periods of existence shall be indicated on the plat. Should these restrictions or trusteeships be of such length as to make their lettering impracticable and thus necessitate the preparation of a separate instrument, reference to such instrument shall be made on the plat or, if the restrictions and trusteeships are of record, the plat shall note where they are recorded.

### **5-105 Form of Dedication Offer**

The form of the offer of irrevocable dedication, required by Subsection 2-104.1, Item 5, of these regulations, shall be as reproduced in this section and approved by the city attorney. The form may be modified as required by the city attorney.

Copies of this form may be obtained at the office of the enforcing officer.

#### **FORM FOR OFFER OF IRREVOCABLE DEDICATION**

**AGREEMENT** made this \_\_\_\_\_ day of \_\_\_\_\_, 19\_\_\_\_, by and between \_\_\_\_\_, a \_\_\_\_\_, having its office and place of business at \_\_\_\_\_, Tennessee, hereinafter designated as the "local government".

**WHEREAS**, the \_\_\_\_\_ Planning Commission is in the process of approving a subdivision plat entitled \_\_\_\_\_, dated \_\_\_\_\_, and made by \_\_\_\_\_; and

**WHEREAS**, said map designates certain public improvements consisting of \_\_\_\_\_ to be dedicated to the City of \_\_\_\_\_, free and clear of all encumbrances and liens, pursuant to the requirements of the planning commission and the local government; and

**WHEREAS**, the developer, simultaneously herewith, shall post a performance bond with the city for the construction, maintenance, and dedication of said improvements, if required;

**WHEREAS**, the developer is desirous of offering for dedication the said improvements and land to the city more particularly described in Schedule \_\_\_\_\_ attached hereto;

**WHEREAS**, the developer has delivered deeds of conveyance to the city for the said land and improvements as described herein;

**NOW, THEREFORE**, in consideration of the sum of one dollar (\$1.00) lawful money of the United States paid by the city to the developer and other good and valuable consideration, it is mutually **AGREED** as follows:

- A. The developer herewith delivers to the city deeds of conveyance for the premises described in Schedule \_\_\_\_\_ attached hereto, said delivery being a formal offer of dedication to the city until the acceptance or rejection of such offer of dedication by the city commission.
- B. The developer agrees that said formal offer of dedication is irrevocable and can be accepted by the city at the time.

- C. The developer agrees to complete the construction and maintenance of the land and improvements pursuant to the performance bond and the requirements of the \_\_\_\_\_ Planning Commission and any ordinances, regulations, requirements, covenants, and agreements that may be imposed by the city with respect thereto and, upon acceptance by the city of the offer of dedication, furnish to the city a sworn statement certifying that the premises are free and clear of all liens and encumbrances and shall furnish to the city a check for all necessary fees and taxes to record the deeds heretofore delivered.
- D. That this irrevocable offer of dedication shall run with land and shall be binding on all assigns, guarantees, successors, or heirs of the developer.

\_\_\_\_\_, 19\_\_\_\_  
 Date Developer

**(CORPORATE SEAL)**

ATTEST: FOR THE CITY OF \_\_\_\_\_

BY \_\_\_\_\_

\_\_\_\_\_, 19\_\_\_\_

**ACKNOWLEDGEMENT:  
 COPARTNERSHIP**

**STATE OF TENNESSEE**

**(COUNTY OF \_\_\_\_\_) SS.: \_\_\_\_\_**

On this \_\_\_\_\_ day of \_\_\_\_\_, 19\_\_\_\_, before me personally appeared \_\_\_\_\_, to me known and known to me to be one of the firm \_\_\_\_\_, described in and who executed the foregoing instrument, and he thereupon acknowledged to me that he executed such instrument as and for the act and deed of said firm.

\_\_\_\_\_  
 CORPORATE

**STATE OF TENNESSEE**

**(COUNTY OF \_\_\_\_\_) SS.: \_\_\_\_\_**

On this \_\_\_\_\_ day of \_\_\_\_\_, 19\_\_\_\_, before me personally appeared \_\_\_\_\_, to me known, who, being by me first duly sworn, did depose and said that he resides in \_\_\_\_\_; that he is the \_\_\_\_\_ of \_\_\_\_\_, the corporate seal affixed to said instrument is such corporate seal; that it was so affixed by order and authority of the Board of Directors of said corporation, and that he signed his name thereto by like order and authority.

\_\_\_\_\_  
INDIVIDUAL

**ARTICLE VI**  
**DEFINITIONS**

**6-101 Usage**

- A. For the purpose of these regulations certain numbers, abbreviations, terms, and words used herein shall be used, interpreted, and defined as set forth in this article.
- B. Unless the context clearly indicates to the contrary, words used in the present tense include the future tense and words used in the plural include the singular; the word "herein" means "in these regulations"; and the word "regulations" means "these regulations".
- C. A "person" includes a corporation, a partnership, and an unincorporated association of persons, such as a club; "shall" is always mandatory; a "building" or "structure" includes any part thereof; "used" or "occupied", as applies to any land or building, shall be construed to include "intended, arranged, or designed to be used or occupied".

**6-102 Words and Terms Defined**

**Alley** -- A public or private right-of-way primarily designed to serve as secondary access to the side or rear of those properties whose principal frontage is on some other street.

**Applicant** -- The owner of land proposed to be subdivided or his authorized representative. Consent shall be required from the legal owner of the premise(s).

**Architect** -- An architect or landscape architect certified and registered by the State Board of Architectural and Engineer Examiners pursuant to Title 62, Chapter 2, Tennessee Code Annotated, to practice in Tennessee.

**Arterial Street or Road** -- A major public way intended to move traffic to and from major industrial areas or a route for traffic between communities or large areas and which has an average daily traffic count in excess of three thousand (3,000).

**Block** -- A tract of land bounded by public ways or by a public parks, cemeteries, railroad rights-of-way, or shorelines or waterways or a combination of such.

**Bond** -- An instrument with a clause, with a sum of money fixed as a penalty, binding the parties to pay the same: conditioned, however, that the payment of the penalty may be avoided by the performance by some one or more of the parties of certain acts.

**Building** -- Any structure built for the support shelter, or enclosure of persons, animals, chattels, or movable property of any kind; the term includes a mobile home.

**Capital Improvements Program** -- A proposed schedule of future projects, listed in order of construction priority, together with cost estimates and the anticipated means of financing each project. All major projects requiring the expenditure of public funds, over and above the annual local government operating expenses, for the purchase, construction, or replacement of the physical assets of the community are included.

**Collector Street or Road** -- A major public way intended to move traffic from local ways to arterial routes. Collector routes serve a neighborhood or large subdivision(s), and normally have an average daily traffic count ranging from one thousand and one (1,001) to three thousand (3,000).

**Common Elements** -- Any portion of a condominium which is held in common by owners of condominium units. These elements may be either general common elements or limited common elements, as defined below.

**General Common Elements** -- Any of the common elements of a condominium which are held in joint ownership by all owners of the condominium.

**Limited Common Elements** -- Any of the common elements of a condominium which are reserved for use by the owner of a particular condominium unit or group of units.

**Condominium** -- A form of ownership of less than the whole of a building or system of buildings under the provisions of Title 66, Chapter 27, Tennessee Code Annotated, which provides the mechanics and facilities for formal filing and recoordination of divided interests in real property, whether the division is vertical or horizontal.

**Condominium Subdivision** -- The subdivision of property through the establishment of a condominium or horizontal property regime.

**Horizontal Condominium Subdivision** -- A subdivision where each unit occupies some ground space.

**Vertical Condominium Subdivision** -- A subdivision of a multi-story building in which one (1) or more units do not occupy ground space.

**Condominium Unit** -- A space conveyed by separate title and located within a condominium structure.

**Construction Plan** -- The maps or drawings accompanying a subdivision plat and showing the specific location and design of improvements to be installed in the subdivision in accordance with the requirements of the planning commission.

**Contractor** -- An individual, firm, or corporation with whom an owner or authorized agent has executed a work agreement.

**County Environmentalist** -- An agent designated to administer local and/or state health regulations.

**Cul-de-sac** -- A minor street having only one outlet and having an appropriate terminal for the safe and convenient reversal of traffic movement; definition includes: dead end, turn-around, or turn-about.

**Design Specifications** -- Written descriptions of a technical nature of materials, equipment, construction systems, standards, and workmanship required for a project intended for local government ownership or maintenance.

**Developer** -- The owner of land proposed to be subdivided or his authorized representative.

**Dwelling Unit** -- A room, or rooms connected together constituting a separate, independent housekeeping establishment for owner occupancy, rental or lease on a daily, weekly, monthly, or longer basis; physically separated from any other room(s) or dwelling units which may be in the same structure; and containing independent cooking and sleeping facilities.

**Easement** -- Authorization by a property owner for the use by another, for a specified purpose, of any designated part of his property.

**Enforcing Officer** -- The building inspector or such person designated by the chief executive officer to be responsible for enforcing the provisions of these regulations.

**Engineer** -- An engineer certified and registered by the State Board of Architectural and Engineer Examiners pursuant to Title 62, Chapter 2, Tennessee Code Annotated, to practice in Tennessee.

**Equal Degree of Encroachment** -- The delineation of floodway limits so that floodplain lands on both sides of a stream are capable to conveying a proportionate share of flood flows. This is determined by considering the hydraulic conveyance of the floodplain along both sides of a stream for a significant reach.

**Escrow** -- A fiduciary agreement with the local government in lieu of actual performance and intended to assure performance. An escrow account may be provided as a bond subject to agreement of the planning commission.

**External Subdivision Boundary** -- All points along the periphery of a subdivision.

**Final Subdivision Plat** -- The final map or drawing and accompanying materials, described in these regulations, on which the subdivider's plan of the subdivision is presented to the planning commission for approval and which, if approved by the commission, is recorded with the county register of deeds.

**Flood** -- A temporary rise in stream level that results in inundation of areas not ordinarily covered by water.

**Flood Frequency** -- The statistically determined average for how often a specific flood level or discharge may be equaled or exceeded.

**Flood Hazard Boundary Map** -- An official map on which the boundaries of the floodplain areas having special flood hazards have been delineated.

**Flood Hazard or Flood Prone Area** -- The maximum area of the floodplain that, on the average, is likely to be flooded once every one hundred years (i.e., that has a one (1) percent chance of being flooded in any year).

**Floodplain** -- A land area adjoining a river, stream watercourse, bay, or lake which is likely to be flooded. It is composed of a floodway and floodway fringe.

**Floodplain Management Program** -- The overall program of corrective and preventive measures for reducing flood damage, including but not limited to emergency preparedness plans, flood control works, building code regulations, health regulations, zoning ordinance regulations, and these subdivision regulations.

**Flood Profile** -- A graph showing the water surface elevation or height of a particular flood event for any point along the longitudinal course of a stream. The flood profile is determined through the use of standard open-channel hydraulic calculations.

**Floodproofing** -- Any combination of structural and nonstructural additions, changes, or adjustments to properties and structures which reduce or eliminate potential flood damage to lands; water facilities, sanitary facilities, and other utilities; structures; and contents of buildings; and which prevent pollution of floodwaters from such natural or man-made sources.

**Floodway** -- The stream channel and adjacent overbank areas required to carry and safely discharge the 100-year flood without increasing flood levels more than one foot above natural flood levels.

**Floodway Encroachment Limits** -- The lines marking the limits of floodways on official federal, state, and local floodplain maps.

**Floodway Fringe** -- The area adjoining a watercourse which, although not lying within a floodway, has been or may hereafter be covered by a 100-year flood.

**Frontage** -- That side of a lot abutting a public way ordinarily regarded as the front of the lot. It shall not be considered as the ordinary side of a corner lot.

**General Plan** -- The official statement of the planning commission which sets forth major policies concerning future development of the jurisdictional area and meeting the provisions set forth in Sections 13-3-301, 13-3-302 and 13-4-102, Tennessee Code Annotated.

**Governmental Agency** -- Any public body other than the governing body.

**Governing Body** -- The chief legislative body of any government.

**Governmental Representative** -- An outside person or designated local official or employee authorized to act on behalf of the governing body in making determinations regarding legal, public works, planning, community development, or other public business.

**Grade** -- The slope of a public way specified in percentage terms.

**Highway, Limited Access** -- A freeway or expressway providing a trafficway for through traffic, in respect to which owners or occupants of abutting property(s) or lands and other persons have no legal right of access to or from the trafficway, except at such points and in such manner as may be determined by the public authority having jurisdiction over such trafficway.

**Horizontal Property Act** -- "The Tennessee Horizontal Property Act" as codified in Title 66, Chapter 2, Tennessee Code Annotated.

**Individual Sewage Disposal System** -- A septic tank, seepage tile sewage disposal system, or any other sewage treatment device other than a public treatment system approved by the appropriate governmental representative.

**Internal Subdivision Boundary** -- All points within a subdivision which do not constitute external boundaries.

**Joint Ownership** -- Joint ownership among persons shall be construed as the same owner for the purpose of imposing subdivision regulations.

**Jurisdictional Area** -- Planning boundary(s) established in keeping with Sections 13-3-102, 13-3-201 and 13-3-301, Tennessee Code Annotated.

**Land Development Plan** -- An element of the general plan which sets out a plan or scheme of future land usage.

**Land Surveyor** -- A land surveyor certified and registered by the State Board of Land Survey Examiners pursuant to Title 62, Chapter 18, Tennessee Code Annotated, to practice in Tennessee.

**Legal Counsel** -- The person designated by the governing body to provide legal assistance for the administration of these and other regulations.

**Lot** - A tract, plot, or portion of a subdivision or parcel of land intended as a unit for the purpose, whether immediate or future, or transfer of ownership, or for building development.

**Lot, Corner** -- A lot situated at the intersection of two (2) public ways.

**Lot Improvement** -- Any building, structure, place, work of art, or other object or improvement of the land on which they are situated constituting a physical betterment of real property, or any part of such betterment.

**Major Street or Road** -- A public way which is classified as a collector or arterial public way according to these regulations or by the major street or road plan for the jurisdictional area.

**Major Street or Road Plan** -- The plan adopted by the planning commission, pursuant to Section 13-3-402 and 13-4-302, Tennessee Code Annotated, showing, among other things, "the general location, character, and extent of public ways...(and) the removal, relocation, extension, widening, narrowing, vacating, abandonment or change of use of existing public ways..."

**Major Subdivision** -- All subdivisions not classified as minor subdivisions including but not limited to subdivisions of five (5) or more lots or subdivisions of any size requiring any new or improved road, the extension of government facilities, or the creation of any public improvements, or containing any flood-prone area.

**Minor Street or Road** -- A public way which is not classified as an arterial or collector.

**Minor Subdivision** -- Any subdivision containing less than five (5) lots fronting on an existing public way; not involving any new or improved public way, the extension of public facilities, or the creation of any public improvements, and not in conflict with any provision of the adopted general plan, major street or road plan, zoning ordinance, or these regulations.

**National Flood Insurance Program** -- A program established by the U.S. Government in the National Flood Insurance Act of 1968, and expanded in the Flood Disaster Protection Act of 1973, in order to provide a flood insurance at rates made affordable through a federal subsidy in local political jurisdictions which adopt and enforce floodplain management programs meeting the requirements of the National Flood Insurance Program regulations. The program regulations are found at 24 Code of Federal Regulations, Chapter X, Subchapter B.

**Offsite** -- Any premise not located within the area of the property to be subdivided, whether or not in the same ownership of the applicant for subdivision approval.

**One Hundred-Year Flood** -- A flood having an average frequency of occurrence of once in 100 years, although it may occur in any year. It is based on statistical analysis of stream flow records available for the watershed and analysis of rainfall and runoff characteristics in the general region of the watershed.

**Owner** -- Any person, group of persons, firm or firms corporation or corporations, or any other legal entity having legal title to or sufficient proprietary interest in the real property.

**Performance Bond** -- See "Bond".

**Perimeter Street** -- Any existing street to which the parcel of land to be subdivided abuts on only one side.

**Planning Commission** -- A public planning body established pursuant to Title 13, Chapters 2 or 5, Tennessee Code Annotated, to execute a partial or full planning program within authorized area limits.

**Preliminary Plat** -- The preliminary drawing or drawings, described in these regulations, indicating the proposed manner of layout of the subdivision to be submitted to the planning commission for approval.

**Premise(s)** -- A tract of land together with any buildings or structures which may be thereon.

**Public Improvement** -- Any drainage ditch, roadway, parkway, sidewalk, pedestrian way, tree, lawn, off-street parking area, lot improvement, or other facility for which the local government may ultimately assume the responsibility for maintenance and operation or which may affect an improvement for which government responsibility is established.

**Public Way** -- Any publicly owned street, alley, sidewalk, or lane right-of-way which provides for movement of pedestrians or vehicles.

**Reach** -- A hydraulic engineering term to describe longitudinal segments of a stream or river. A reach generally includes the segment of the flood hazard area where flood heights are influenced by a man-made area where flood or natural obstruction. In an urban area, the segment of a stream or river between two (2) consecutive bridge crossings typically would constitute a reach.

**Regulatory Flood** -- The one hundred-year flood.

**Regulatory Flood Protection Elevation** -- The elevation of the regulatory flood plus one foot of freeboard to provide a safety factor.

**Resubdivision** -- A change in a map of any approved or recorded subdivision plat altering the number of lots incorporated within the confines of the original plat.

**Right-of-Way** -- A strip of land occupied or intended to be occupied by a public way crosswalk, railroad, electric transmission line, oil or gas pipeline, water main, sanitary or storm sewer line, or for another special use. The usage of the term "right-of-way", for land platting purposes, shall mean that every right-of-way hereafter established and shown on a final plat is to be separate and distinct from the lots or parcels adjoining such right-of-way and shall not be included within the dimensions or areas of such lots or parcels.

**Sale or Lease** -- Any immediate or future transfer of ownership, including contract of sale or transfer, of an interest in a subdivision or part thereof, whether by metes and bounds, deed, contract, plat, map, or other written instrument.

**Same Ownership** -- Ownership by the same person, corporation, firm entity, partnership, or unincorporated association or ownership by different corporations, firms, partnerships, entities, or unincorporated associations, in which a stockholder, partner, associate, or a member of his family owns an interest in each corporation, firm, partnership, entity, or unincorporated association.

**Setback** -- The distance between a building wall and the nearest public way right-of-way.

**Sketch Plat** -- A sketch preparatory to the preliminary plat (or final subdivision plat, in the case of minor subdivisions).

**Special Flood Hazard Map** -- The official map designated by the Federal Insurance Administrator to identify floodplain areas having special flood hazards.

**Staff Assistant to the Planning Commission** -- The person(s) employed by the local governing body to assist the planning commission in planning and land use regulation activities.

**Start of Construction** -- For purposes of subdivision control any alteration of the original surface area of the land, from and after the date of adoption of these regulations.

**Structure** -- Anything constructed above or below ground.

**Subdivider** -- Any person who (1) having an interest in land, causes it, directly or indirectly, to be divided into a subdivision or who (2) directly or indirectly, sells, leases, or develops, or offers to sell, lease, or develop, or advertises for sale, lease, or development, any interest, lot, parcel site, unit, or plot in a subdivision or who (3) engages, directly or indirectly, or through an agent in the business of selling, leasing, developing, or offering for sale, lease, or development a subdivision or any interest, lot, parcel site, unit, or plot in a subdivision or who (4) is directly or indirectly controlled by or under direct or indirect common control with any of the foregoing.

**Subdivision** -- "Subdivision" means the division of a tract or parcel of land into two (2) or more lots, sites, or other divisions requiring new street or utility construction, or any division of less than five (5) acres for the purpose, whether immediate or future, of sale or building development, and includes resubdivision and when appropriate to the context, relates to the process of resubdividing or to the land or area subdivided. (See Sections 13-3-401 and 13-4-301, Tennessee Code Annotated.)

**Subdivision Agent** -- Any person who represents or acts for or on behalf of a subdivider or developer in selling, leasing, or developing or offering to sell, lease, or develop any interest, lot, parcel, unit, site, or plot in a subdivision, except in an instance where only legal counsel is provided.

**Temporary Improvement** -- Any improvement built and maintained by a subdivider during construction of the subdivision and prior to release of the surety for completion of required improvements.

**Twenty-Five Year Flood** -- A flood having an average frequency of occurrence of once in twenty-five (25) years.

**Water Surface Elevation** -- The heights in relation to mean-sea-level expected to be reached by floods of various magnitudes and frequencies at pertinent points in the floodplain. Also the level of natural flows or collectors or water which may be expected to be found above or below surface.

**Zoning Ordinance or Resolution** -- A statute, legally adopted pursuant to Title 13, Chapters 4 or 7, Tennessee Code Annotated , for the purpose of regulating by district, land development or use for a designated area.

ARTICLE VII

ADOPTION OF REGULATIONS AND AMENDMENTS

7-101 Original Enactment

In order that land shall be subdivided in accordance with the objectives and standards set forth in these regulations, these subdivision regulations are hereby adopted this 12th day of December, 1989, and immediately shall be in full force and effect. Pursuant to Sections 13-3-403 and 13-4-303, Tennessee Code Annotated, a public hearing was held on these regulations December 12, 1989, at 6:00 p.m., at

Hartsville City Hall, in Hartsville, Tennessee, notice of which was given by  
Date Time  
Place (City or County)  
publication Hartsville Vidette, on November 9, 1989.  
(Name of Newspaper) Date

Jerry W. Ford  
Chairman

December 12, 1989  
Date

ATTEST:

Mary Agnes Chitwood  
Secretary

December 12, 1989  
Date

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Jerry W. Ford  
Chairman

December 12, 1989  
Date

ATTEST:

Mary Agnes Chitwood  
Secretary

December 12, 1989  
Date

**APPENDIX A**  
**STREETS AND ROADS**

## I. GENERAL PROCEDURE

### 1.1 After Approval of the Preliminary Plan

The developer will be given one (1) copy of these regulations and the following steps will be followed for an expedient review and approval of the plans.

1. The developer will submit to the county engineer the detailed construction plans for the section or subsection of work to be accomplished.
2. The plans will be submitted with all pertinent supportive data and expedite a quick review by the county engineer and county road superintendent. Such supportive data will include but not be limited to drainage work sheets, drainage computations, etc.
3. The data to be included and shown on the plans is noted in Section II.
4. Upon review and approval of the road and drainage plans by the County Engineer, four (4) sets will be stamped, signed, dated and issued.
5. The distribution of the stamped plans will be this:

**County Engineer - 1 set**  
**County Road Superintendent - 1 set**  
**Developer - 2 sets**

6. No final plats will be heard for approval by the planning commission until an approved set of road and drainage plans have been obtained by the developer for the section being readied for recording.
7. Bonding - Initial bond for performance period will be two (2) years from date of bond issuance. Extension will be at the discretion of the planning commission and only for extenuating circumstances beyond the control of the developer.
8. CW Mix shall be in place for a minimum of one (1) year before going on a Maintenance Bond.
9. If a developer completes improvements before Final Plat approval, Maintenance Bond period shall be a minimum of two (2) years reviewed annually.

### 1.2 Road Classification by Use

#### A. Classification

For the purpose of these regulations, roads shall be classified as follows:

##### 1. Residential

Typical road in a residential subdivision designed to serve light passenger car traffic.

2. Collector

Located in a residential or an industrial and commercial subdivision. Serves as an artery which connects minor subdivision roads with a thoroughfare, or another collector road.

3. Commercial and Industrial Road

Road which serves a commercial and industrial development. This class of road is designed to carry a predominance of truck traffic.

B. Typical Sections

Supplementing these regulations are the attached typical roadway sections. It is noted that for each roadway classification, an optional cross-section with curbs is shown in addition to the conventional cross-section with shoulders and swale-type drainage.

Outlined are the minimum dimensions for each class and type of roadway cross-section.

1.3 Street Layout and Design

The street layout shall be in conformity with a plan for the most advantageous development of the entire neighboring area. All proposed streets shall be in alignment with existing planned or platted streets with which they are to connect, and shall be consistent with the following standards.

1. The street layout shall include minor streets of considerable continuity, approximately parallel to and on each side of main thoroughfare, boulevard, or parkway.
2. Proposed streets shall be adjusted to the contour of the land so as to produce usable lots, and streets of reasonable gradient.
3. Certain proposed streets shall be extended to the boundary line of the tract to be subdivided so as to provide for normal circulation of traffic within the vicinity. Wherever there exists a dedicated or platted street abutting the tract to be subdivided, the developer shall extend the street to an intersecting street or shall terminate the street in a permanent type turnaround upon approval of the Commission.
4. Wherever there exists a dedicated or platted half-street or alley adjacent to the tract to be subdivided and approved by the commission, the other half shall be platted.
5. Alleys may be required where appropriate in all business and industrial districts. Except where justified by extreme conditions, alleys will not be approved in residential districts.

6. Cul-de-sac streets may be planned where conditions permit their use, and in no instance have a length greater than eight hundred (800) feet.
7. Main and secondary thoroughfares, collector or feeder streets shall have widths not less than indicated on the Major Thoroughfare Plan. All streets in industrial subdivisions shall have minimum widths of sixty (60) feet.
8. Minor streets shall have a minimum width of fifty (50) feet including cul-de-sacs.
9. All cul-de-sacs shall terminate in a circular or other approved type turnaround. The circular right-of-way shall have a minimum diameter of one hundred (100) feet unless the Commission approves an equally safe and convenience paved space instead of the required turning circle.
10. Alleys, where required, twenty (20) feet.
11. At all street and alley intersections, property line corners shall be rounded by an arc, the minimum radius of which shall be twenty-five (25) feet for streets and twenty (20) feet for alleys, except at street intersections where curbs and gutters are constructed the minimum radius may be twenty (20) feet, and at alley intersections where curbs and gutters are constructed, the minimum radius may be fifteen (15) feet.
12. All streets and alleys shall intersect at right angles or as nearly thereto as possible.
13. The width of blocks shall be sufficient, normally, to allow two (2) tiers of lots of appropriate depth.
14. Blocks shall not exceed sixteen hundred (1,600) feet in length.
15. Streets shall meet the standards set in Section 4-103.
16. No private street may be constructed in place of any segment of any proposed public street contained in any adopted plan.

All streets shall be constructed in conformity with an approved street layout plan as specified in Section 4-103, of these regulations, above, unless otherwise provided within this Section.

- A. All public streets should be constructed substantially to conform to the following standards.
  1. Grades
    - a. Main or secondary thoroughfares, not greater than eight (8) percent.
    - b. Minor streets and alleys, not greater than ten (10) percent.

2. Vertical Curves

- a. Main or secondary thoroughfares, minimum sight distance of six hundred (600) feet, measured between points five (5) feet above center line of roadway.
- b. Collector and feeder streets, minimum sight distances of four hundred (400) feet, measured between points five (5) feet above the center line of roadway.
- c. Minor streets, minimum sight distance of two hundred fifty (250) feet measured between points five (5) feet above center line of roadway.

3. Minimum Radii of Curvature on the Center Line

- a. Main or secondary thoroughfares, one thousand (1,000) feet, but should be greater whenever possible.
- b. Collector and feeder streets, six hundred (600) feet, but should be much greater wherever possible.
- c. Minor streets, two hundred fifty (250) feet.

4. Tangents

Between reversed curves there shall always be a minimum tangent.

- a. Main or secondary thoroughfares, two hundred (200) feet.
- b. Collector and feeder streets, one hundred (100) feet.

## **II. ROADWAY CONSTRUCTION PLAN REQUIREMENTS**

### **FOR NEW SUBDIVISION**

#### **DEVELOPMENTS IN HARTSVILLE AND TROUSDALE COUNTY, TENNESSEE**

##### **2.1 Construction Plans**

The construction plans shall be submitted to the Trousdale County Engineer as a bound set and shall consist of a Title Sheet, Detail Sheets, a Traffic Plan, a Grading and Drainage Plan, Plan and Profile Sheets, and any other information required for proper review of the proposed construction.

###### **A. Title and Cover Sheet Shall Include**

1. Name of Development
2. Name and Address of Developer/s
3. Name and Address of Engineer or Surveyor
4. Professional Engineer's or Surveyor's Stamp and Signature
5. Location Map

###### **B. Detail Sheets Shall Include**

1. Headwalls
2. Bridges
3. Typical Road Sections
4. Typical Ditch Sections
5. Cross Drain Details
6. Any other structures or constructions requirements of special detail.

###### **C. Traffic Plan Shall Include**

1. A layout of the roads at a scale no less than 1"=100'.
2. The width of all proposed and existing rights-of-way and pavements.
3. The proposed location of all traffic signs, warning signs, and regulation signs required.

D. Grading and Drainage Plans to Include:

1. A complete plan of the proposed development of scale no less than one (1) inch equals one hundred (100) feet. This plan is to include complete contours of interval no greater than five (5) feet. U.S.G.S. 1929 Datum is to be used exclusively. A north arrow will be shown on the plan. The source and date of the contour should be noted.
2. All proposed roads and lot patterns, with roadway stations shown on the road plans.
3. A detailed typical section indicating type of road construction proposed.
4. All drainage structures, including inlets, catch basins, junction boxes, culverts, cross-drains, headwalls, and drainage ditches, shall be shown in size, type, and material. Details of the structures shall be included with these plans.

Ornamental entrances and structures will be examined on an individual basis.

5. All proposed drainage ditches, channel changes, or improvements shall be shown with typical sections, slope, exact location, and length of change or improvements indicated.
6. Where ditch section is used, the stabilization of roadside ditches will be as required by Section IV, and shall be shown with length, grade location and type stabilization required.
7. All off road fill areas will be indicated as such, with the limits and elevation indicated on each lot effected.
8. At least one (1) permanent Bench Mark location will be indicated, within the development, with the proper elevation and description of same. (U.S.G.S. 1929 Datum to be used exclusively).
9. The storm drainage system shall be designed to carry a fifty (50) year frequency discharge and investigated for a one hundred (100) year frequency discharge.

E. Plan and Profile Sheets

The plan profile sheets submitted with the grading and drainage plans shall include the following:

1. Detail plans for streets shall be plotted on Federal aid plan and profile sheets to a scale of not less than 1"=100' horizontal, and not less than 1"=10" vertical. Mixing of scales within a set of plans if discouraged.

2. The street plan section shall include the street plotted to the proper scale with stationing shown; the stationing should match that shown on the profile section as nearly as possible.
3. Profile section shall be plotted to the same scale as heretofore mentioned, and shall include the proposed center line finish grade profile, in addition to the existing center line profile.
4. Where curb type development is to be used, existing ground profiles at twenty-five (25) feet left and right of center line will be shown as to station and elevation.
5. All vertical control points on or pertaining to the proposed center line profile such as P.V.C., P.V.I., and P.V. T. points, all low points, and street intersections, shall be shown as to station and elevation.
6. All percent grades and vertical curve data, both balanced and unbalanced, shall be shown.
7. All drainage structures incidental to the street construction shall be shown giving the stationing, skew and type. A detail of the type structures shall be included with these plans.
8. Invert and top grade elevations on all catch basins and inlets shall be shown in addition to flow line elevations, stations, and percent grades on all cross-drains and pipe between inlets and catch basins.
9. Drainage arrows shall be shown indicating the intended direction of flow throughout the plan including all off road localized drainage.
10. Where ditch section is used, the stabilization required for the road side ditches shall be shown with both the length and type stabilization required.
11. Where special structures, such as box culverts, bridges, or junction boxes are proposed in the development, detailed plans showing all dimensions, reinforcement, spacing, sections, elevations, and other pertinent information necessary to complete said detailed plans shall be submitted to the Trousdale County Engineer, as part of the bound set of construction plans.

## **2.2 Drainage Easements and Ditches**

Easements shall be dedicated for all drainage ditches. The entirety of each ditch including the side slopes shall be within the easement. The ditch shall be fully stabilized in accordance with these regulations, Section 3.3, so that its location and geometry will be permanent. Each easement shall be dedicated on the final plat of record and shall be dimensioned in such a fashion that it can be reproduced on the ground with certainty. Any proposed ditch shall be

constructed within the dedicated easement and any existing ditch shall be located in the field and an easement of sufficient width dedicated. The width and location of all easements shall meet the approval of the Trousdale County Engineer.

### **2.3 Review**

Omission of any of the hereto fore mentioned requirements for detailed plans shall deem these plans as being incomplete and shall be returned to the Developer, or his Engineer, for completion before review.

### **2.4 Revision of Plans**

Should prior to, or during construction, necessary changes be anticipated that would constitute a revision of the plans already approved by the Trousdale County Engineer, said plans shall be revised with said changes shown, and resubmitted, in triplicate, along with a letter stating why such changes are believed necessary. The Trousdale County Engineer shall have the right to re-review the entire set of plans in the light of these requested changes.

### **2.5 Construction**

The County Engineer will be notified by the developer two (2) days prior to the date that work on the proposed development is to start.

**III. SPECIFICATIONS**  
**FOR MATERIALS AND**  
**CONSTRUCTION PROCEDURES**

**3.1 General**

The general procedure for building the subdivision roads required in these regulations shall begin with the clearing of the rights-of-way. After the placement of all utilities and drainage structures and the approval of the subgrade, and the pug mill mix base shall be placed in maximum lifts of four (4) inches. The stone base shall be brought to grade with the proper crown before compaction tests are taken. The dimensions and compaction requirements of the typical section are minimums and shall be met or exceeded. After the base has been approved by the Trousdale County Engineer, the procedure shall be as follows depending on the typical section approved for construction.

Any reference to the Tennessee Highway Specifications shall refer to the Tennessee Department of Transportation, Bureau of Highways, Nashville, Standard Specification for Road and Bridge Construction, **March 1, 1981**, Edition, and any further amendments or additions. The State of Tennessee, Department of Transportation, Bureau of Planning and Development, Division of Design and Structures, Standard Roadway and Structure Drawings, with updates and revisions is hereby adopted as part of these regulations in addition to the standards specified herein, with these standards to be used as directed or approved by the Trousdale County Engineer or his authorized representative.

**Ditch Section**

The stone base shall be primed for the width of the pavement. All loose stone and any debris shall be swept from the surface before the CW Mix is placed. After the placement of the CW Mix, the shoulders shall be dressed and sealed with a double bituminous surface treatment at the instruction of the County Engineer or his authorized representative. At eighty (80) percent completion of the development or the last paving season before the end of the maintenance period, the E Mix surface shall be applied. The shoulders shall then be dressed with oil and chips until there is a smooth transition from the pavement surface to the shoulders.

**Curb Section**

The stone base shall be primed in its entirety. The extruded curbs shall be laid directly on the primed surface and allowed to cure. Earth shall be placed behind all curbs so that within four (4) feet of the curb the ground slopes toward the roadway shall be swept from the primed surface and the CW Mix shall be laid from curb to curb. At the completion of eighty (80) percent of the development or the last paving season before the expiration of the maintenance bond, the E Mix surface shall be applied.

### 3.2 Drainage

The overall drainage of the road or network of will be coordinated with, and approved by the Trousdale County Engineer. Sizes and lengths of cross drains and driveway culverts, where required shall be determined to be consistent with the following minimum requirements. For driveway culverts a minimum diameter of eighteen (18) inches, and a minimum length of twenty (20) feet; for cross drains a minimum diameter of eighteen (18) inches.

Reinforced concrete pipe shall conform to minimum standards for Class III, reinforced pipes, A.S.T.M. C-76 corrugated metal pipes shall meet the following minimum gage requirements.

	<u>Pipe Size</u>		
<b>Cross Drains</b>	<u>18" 24" 30"</u> 14 Gage	<u>36" 48" 54"</u> 12 Gage	<u>60" 66" 77"</u> 10 Gage
<b><u>Driveways</u></b>	<u>18' 24" 30"</u> 14 Gage	<u>36" 42" 48"</u> 12 Gage	<u>54" 60" 66" 72"</u> 10 Gage

For pipes smaller than forty-eight (48) inches in diameter, a minimum cover of one (1) foot is required. a minimum cover of two (2) feet is required for pipes forty-eight (48) inches in diameter and larger.

Roadside ditches shall be built to a grade that will provide good drainage, and in no case shall the slope of the ditch be less than 0.5 percent (a fall of 0.5 foot in 100 feet).

Cross drains and driveway pipes shall be built on straight line and grade, and shall be laid on a firm base, but not on rock. Pipes shall be laid with the spigot end pointing in the direction of the flow and with the ends fitted and matches to provide tight points and a smooth, uniform invert. Headwalls will be constructed at bot ends of cross drain and driveway pipes in accordance with T.D.O.T. Standard Drawings.

All drainage ditches shall be stabilized to prevent erosion as indicated in Section 3.3, of these regulations.

### 3.3 Stabilization of Ditches

All open ditches shall be stabilized in accordance with the following requirements:

<b>Size of Nearest Culvert (Upstream)</b>	<b>Seeding Required</b>	<b>Sod Required</b>	<b>To be Concrete Lined</b>
18"	Grades Less Than 3.00%	Grades 3.00%-12.00%	Grades Exceeding 12.00%
21" thru 24"	Grades Less Than 1.50%	Grades 1.50%-7.00%	Grades Exceeding 7.00%
30" thru 36"	Grades Less Than 1.00%	Grades 1.00%-4.00%	Grades Exceeding 4.00%
42" thru 72"		Grades 2.50% or Less	Grades Exceeding 2.50%

**NOTE:** Where culverts empty into ditches with grades exceeding the grade of the culverts the minimum requirements set forth above may not be satisfactory. In this case, the treatment shall be specified by the Trousdale County Engineer or his representative.

A. Concrete Lining

Ditches that require lining with concrete shall be lined to a height above the bottom of the ditch no less than one-half (1/2) the diameter of the nearest culvert (upstream). However, in no case shall the lining extend less than one (1) foot above the bottom of the ditch.

Lined ditches shall be constructed of Class "B" concrete (3,0000 p.s.i., 28 day strength). The lining shall be firmly bedded and securely attached to adjacent drainage structures. Concrete mixture used will be such as to attain a smooth, monolithic, and reasonably water tight lining, and be placed upon a firm subgrade which will be void of all objectionable matter (grass, roots, etc.).

The finished lined ditch shall conform to designated lines and grades and shall add rather than detract from the appearance of the roadway.

B. Sodding

Ditches that require sodding shall be sodded to a height above the bottom of the ditch not less than one-half (1/2) the diameter of the nearest culvert (upstream). However, in no case shall the sod extend less than one (1) foot above the bottom of the ditch.

The side shall consist of a live, dense, well-rooted growth of permanent grasses, free from Johnson grass, Nut grass, and other objectionable grasses, and suitable for the soil in which it is to be placed. The sod shall be eight (8) inches wide, not less than eighteen (18) inches long, and have at least three (3) inches in thickness of soil in its roots. The side shall be placed only when the soil is moist and favorable to growth. No sodding shall be done between **November 1, and April 1**, unless

otherwise directed by the Trousdale County Engineer. The area to be sodded shall be constructed to the designated lines and grade, and the surface loosened to a depth of not less than three (3) inches with a rake or other device. If necessary, it shall be sprinkled until saturated at least one (1) inch in depth and kept moist until the sod is placed thereon. It will not be required, but it is recommended that immediately before placing the sod, commercial fertilizer (6-12-12) shall be uniformly applied at the rate of eighteen (18) pounds per one thousand (1,000) square feet. However, the Trousdale County Engineer will hold the developer responsible for an acceptable stand of grass in the ditches for stabilization.

The sod shall be placed on the prepared surface with the edges in close contact and shall be pounded into place with wooden tamps, or other satisfactory equipment. On steep slopes, pining or pegging will be required to hold the sod in place.

C. Seeding

The area to be seeded shall be constructed to the proper line and grade, and the surface loosened to a depth of not less than three (3) inches with a rake or other device. After the top three (3) inches of soil has been rendered loose, friable, and reasonably free from large clods, rocks, large roots, or other undesirable matter, lime and fertilizer shall be carefully worked into the soil in the following amounts:

1. Agricultural Limestone (85% Calcium Carbonate Equivalent, 85% through a 10-mesh screen, 50% through a 40-mesh screen, 3 tons per acre, 140 pounds per 1,000 square feet.)
2. Commercial Fertilizer (6-12-12) - 1,300 pounds per acre (30 pounds per 1,000 square feet.)

Seeds shall be uniformly sown on the prepared seedbed in accordance with the following schedule, and raked, drilled or harrowed approximately one quarter (1/4) inch into the soil.

The mixture of seed used shall meet the latest requirements of the Tennessee Department of Transportation.

**3.4 Headwall Requirements**

All headwalls for cross drains and driveway pipe shall be poured in place concrete (Class "A", 4,000 p.s.i. @ 28 days.)

Concrete headwalls shall be not less than 12 inches thick for pipes eighteen (18) inches through thirty (30) inches, and shall be adequately reinforced for pipe larger than thirty (30) inches.

Length of wingwalls and height of headwalls for all pipes shall be determined by the amount of fill, the size of pipe, and the general conditions surrounding the pipe.

If decorative or ornamental headwalls are desired, approval of such structures shall be given by the Trousdale County Engineer upon review and such headwalls should be shown in detail on the plan.

Headwalls for driveway pipe on each individual lot will be inspected and approved by the Trousdale County Engineer or his authorized representative prior to or concurrently with the County Building Inspector's inspection for issuance of an occupancy permit.

### 3.5 Curbs

Machine-laid (extruded) curbs are permitted which meet the following specifications:

A. Concrete

<b>Concrete Strength (28) Day</b>	<b>3,500 psi</b>
<b>Maximum Slump</b>	<b>1-1/2 Inch</b>

#### Gradation of Aggregate (River Gravel)

<u>Sieve Size</u>	<u>Percent Passing</u>
<b>#4</b>	<b>96 - 100</b>
<b>#8</b>	<b>80 - 100</b>
<b>#16</b>	<b>55 - 80</b>
<b>#30</b>	<b>45 - 65</b>
<b>#50</b>	<b>10 - 25</b>
<b>#100</b>	<b>2 - 7</b>

Concrete shall be cured by covering with burlap, cotton or jute mats or sacking, which is kept moist for a period of at least five (5) days, or by the application of a liquid membrane to prevent evaporation losses. In the latter case, the material and method of application shall be approved by the County Engineer.

B. Alignment

Curbs shall vary from the specified alignment (on the plans) not more than 0.10 foot.

C. Typical Section

Unless otherwise directed by the County Engineer, curbs shall conform to the typical section shown on Drawing No. 5. Curbs shall be continuous across driveways, and shall be recessed to provide an entranceway of four (4) inch thickness.

### **3.6 Clearing and Grubbing**

Before grading is started, the entire street right-of-way including side slopes, shall be cleared of all objectionable matter, such as trees, stumps, roots, weeds, heavy vegetation, debris, etc.; disposal of this material will be in accordance with current county, state, or federal regulations.

### **3.7 Preparation of Subgrade**

1. Fill material shall be evenly and uniformly spread in layers not to exceed eight (8) inches in thickness over the entire width and thickness of the embankment section. Each layer shall be thoroughly rolled with an approved sheeps foot or pneumatic tired roller. If in the opinion of the Trousdale County Engineer, the soil is too dry, water will be added by a pressure distributor or other approved method. Soils which are too wet will be allowed to dry before compaction and further filling is attempted.
2. Fills shall be compacted to ninety-five (95) percent of the maximum dry density according to standard proctor density (ASTM-D-698-70) material uses. Subgrade density test shall be conducted by local testing laboratory, approved by the county and licensed by the State of Tennessee, and shall be furnished at the expense of the developer and submitted directly to the Trousdale County Engineer. A minimum of one subgrade density test for every five hundred (500) feet of roadway will be required. The developer shall be billed by the county for the cost of all tests and shall remit payment before the approval of the subgrade can be given by the County Engineer.
3. If rock is encountered it shall be removed to a depth of at least twelve (12) inches below the subgrade of the road, and suitable backfill material will be used to build the cut section up to proposed grade.
4. The finished subgrade shall provide for super-elevation and crown of the roadway.

### **3.8 Base and Paving**

#### **A. Typical Section**

The type base and surface to be used shall be shown on the approved plans and shall not vary from the typical roadway sections of these specifications. The placement of all base and surface materials shall be at the expense of the developer. Test of the subgrade required under Section 3.7, of these specifications (performed by a private testing lab).

#### **B. Crushed Stone Pug Mill Mix to Be Used in Roadway Base Construction**

1. After the subgrade has been inspected and approved by the Trousdale County Engineer or his authorized representative, a base shall be constructed of the width and thickness indicated in the roadway typical sections.

2. **Description** - Crushed stone base (Pug Mill Mix) shall consist of a base course constructed with an approved mixture of crushed stone, and water, boded by rolling and/or vibratory compaction; maintained under traffic; and unconformity with the lines, grades, and cross sections as indicated on the plans.
3. **Scope** - These specifications cover the quality, gradation, and mixing of materials composing. pug Mill Mix to be used in roadway base courses.
4. **Materials** - All materials used in this construction, in addition to the general requirements of these specifications, unless otherwise stipulated, shall conform to the technical specifications as set forth below.

Aggregates for mineral aggregate base and surface courses shall be crushed stone, crushed slag, crushed or uncrushed gravel, or crushed or uncrushed chert, together with such material as manufactured sand or other fine materials naturally contained, or added thereto as needed to conform with these specifications.

- a. The aggregate for mineral aggregate base and surface courses shall consist of hard durable particles or fragments of stone, slag, gravel, or chert, and other finely divided mineral matter. Individual materials shall meet the requirements specified below.
- b. Crushed stone shall be free of silt and clay. The coarse aggregate portion of the stone shall have a percentage of wear of not more than fifty, and when subjected to five alternations of the sodium sulfate soundness test, the weighted percentage of loss shall not exceed fifteen.
- c. Crushed slag shall be free of silt and clay and shall meet the quality requirements of crushed stone. It shall be reasonably uniform in density and shall have a dry-rolled weight of at least seventy pounds per cubic foot.
- d. Crushed gravel and crushed chert shall be screened and all oversize material shall be crushed and fed uniformly back over the screen. The coarse aggregate portion (retained on the No. 4 sieve) shall have a percentage of wear of not more than 30. The portion of the material passing the No. 40 sieve shall be nonplastic or shall have a liquid limit of not more than 25 and a plasticity index of not more than 6.

If fine aggregate, coarse aggregate or binder, in addition to that present in the base material, is necessary in order to meet the gradation requirements, or for satisfactory bonding of the material, it shall be uniformly blended with the base course material at the mixing plant by a mechanical feeder

to maintain a uniform flow on the belt to the mixer. Blending of materials on the he stockpiles or in the pits by bulldozer, clamshell, dragline, or similar equipment will not be permitted.

The composite gradation of this aggregate shall be as follows:

**Total Percent by Weight, Passing Sieves**

<b>Grading</b>	<b>1 1/2"</b>	<b>1"</b>	<b>3/4"</b>	<b>3/8"</b>	<b>No. 4</b>	<b>No. 16</b>	<b>No. 100</b>
<b>D</b>	<b>100</b>	<b>85 - 100</b>	<b>60 - 95</b>	<b>50 - 80</b>	<b>40 - 65</b>	<b>20 - 40</b>	<b>9 - 18</b>

- e. Water shall be incorporated in the crushed stone aggregate base material mixture during the mixing operation in the amount necessary to provide a moisture content satisfactory for compacting. Water used in the mixing process shall be reasonably clean and free of oil, salt, acid, alkali, sugar, vegetable matter, or other substances injurious to the finished product. Water will be tested in accordance with AASHTO T 26. Water known to be of potable quality may be used without test. Where the source of water is relatively shallow, the intake shall be so enclosed as to exclude silt, mud, grass, or other foreign materials.

The mixture shall be deposited uniformly on the subgrade from spreader boxes in a minimum of two (2) equal layers. After each layer is deposited, it shall be smoothed to grade and cross-section with a power grader and rolled.

The compacted dry weight per cubic foot of material in each layer shall not be less than ninety-eight (98) percent of that determined as an average of maximum compaction for the material in use. The determination of the average maximum compacted dry weight pounds per cubic foot shall be calculated by multiplying the Specific Gravity of the mineral aggregate by 53. This compacted density requirement shall apply regardless of the type of compaction uses. Testing shall be conducted by a state licensed teerting laboratory, approved by the county, and shall be at the expense of the developer. Test results shall be submitted to the County Engineer for approval. The developer shall be billed by the county for the cost of all tests and shall remit payment before approval of the base stone can be given by the County Engineer. The crown, width, depth, and grade of the base stone shall be approved by the County Engineer prior to testing for compaction.

### **3.9 Paving Specifications and Procedures**

The base, prepared as outlined herein, shall be sprinkled lightly with water to settle any loose dust. a bituminous prime coat shall then be applied as specified below. After the crushed stone base and prime coat has been inspected and approved by the Trousdale County Engineer or his authorized representative, the base shall be primed and tacked (as necessary) and the asphaltic concrete surface - CW Mix has been inspected and approved the Trousdale County Engineer or his authorized representative, a tack coat with specifications as stated below shall be applied and asphaltic concrete paving, E Mix surface will be installed as indicated in the roadway typical sections with the specifications as outlined below. The county will employ an engineering firm to inspect the hot mix material at the plant and at the project site to certify that hot mix meets regulations. The developer shall pay for the engineering service.

The specifications for material and construction procedures for asphaltic concrete paving, grading CW Mix shall be as specified in Section 307, all subsections and special provisions pertaining thereto of the **Tennessee Department of Transportation, Bureau of Highways, Nashville, Standard Specifications for Road and Bridge Construction, March 1, 1981**, edition, and any further amendments or additions (TDOT Specifications). The specification for material and construction procedures for Prime Coat shall be as specified in Section 402, and all subsections and special provisions pertaining thereto to TDOT Specifications. The specification for material and construction procedures for E Mix shall be as specified in Section 411, all subsections and special provisions pertaining thereto of the TDOT Specifications. The specifications of the Tack Coat between the CW Mix and the E Mix shall be as specified in Section 403, all subsection and special provisions pertaining thereto of the TDOT Specifications. The specifications for double bituminous surface treatment (DBST) shall be as specified in Section 404, all subsection and special provisions pertaining thereto of the TDOT Specifications.

### **3.10 Signs**

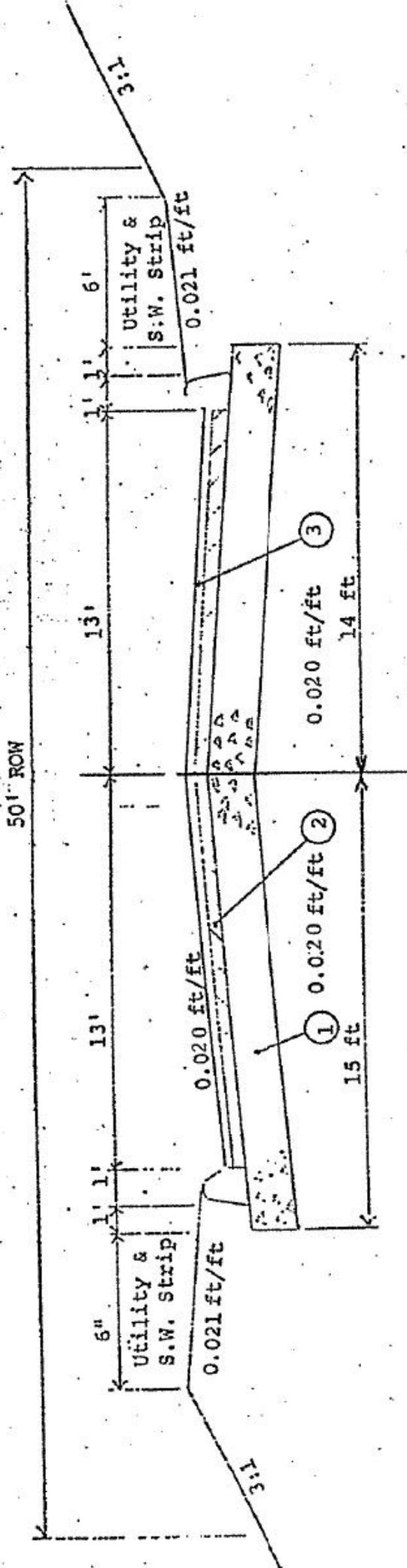
The developer shall furnish and install all roadway signs. These shall include signs for warning, regulation, the direction of traffic and the proper labeling of streets.

1. Street name signs shall be placed at every intersection. The name plate shall be 6"x24" or 6"x30", as required by the length of the street name. The lettering shall be four (4) inch capitals, reflective silver on a green background engineering grade reflective sheeting. The name plate shall be of 0.80 - 0.10 aluminum. The name plate or plates as necessary shall be placed by use of a properly fitting adapter on a two and one-half (2 ½) inch round galvanized post or a two (2) pound per foot painted U-Channel railroad steel post.

2. Traffic warning and regulation signs shall be placed as required at all appropriate intersections or on the roadside in accordance with the traffic plan which shall be submitted to the Trousdale County Engineer to be approved with the construction plans. The size and placement of all traffic signs shall conform to the requirements of the Uniform Traffic Control Devices for Streets and Highways, published by the U.S. Department of Transportation, Federal Highway Administration.

### **3.11 Inspection**

The County Engineer or Representative shall be responsible for inspection of roadway and drainage improvements. The developer shall pay an inspection fee of ten cents (\$.10) per foot of roadway before his final plat can be recorded.



1. Mineral Aggregate Base @ 8" for  
 303-01 Mineral Aggregate Type "A" Base Grading D  
 402.01 Bit. Material for Prime Coat (PC) 0.30-0.35 Gal/S.Y.  
 402-02 Aggregate for cover Mat'l (P.C.) 8-12 lbs./S.Y.

2. Bituminous Leveling-Wearing Surface Grading "CW"  
 2.0" 200 lbs./S.Y.

- 307-03.03 Aggregate (BPMB-HM) Grading "CW"
- 307-03.04 Asphalt Cement (BPMB-HM) Grading "CW"

3. Asphaltic Concrete Surface (Hot Mix) Grading "E"  
 1.5" 165#/sq. Yd.

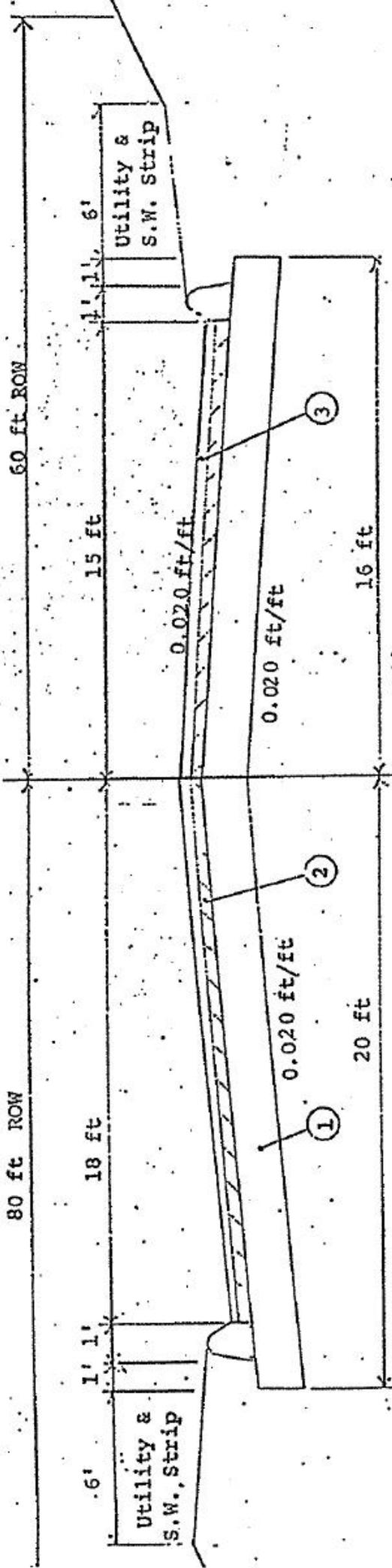
- 411.02.01 Mineral Aggregate for (ACS) Grading "E"
- 411.02.02 Asphalt Cement for (ACS) Grading "E".

**NOTE:**

Specifications are taken from Tennessee Department of Transportation Bureau of Highways, Nashville Standard specifications for Road and Bridge Construction, Adopted March 1, 1981 and all specification provisions pertaining thereto.

All storm sewers shall be concrete pipe and catch basins shall meet the standards of this regulation and the State of Tennessee Department of Transportation Bureau of Highways Standard Specifications and Standard Roadway and Structure Drawings.

TYPICAL RESIDENTIAL ROADWAY SECTION



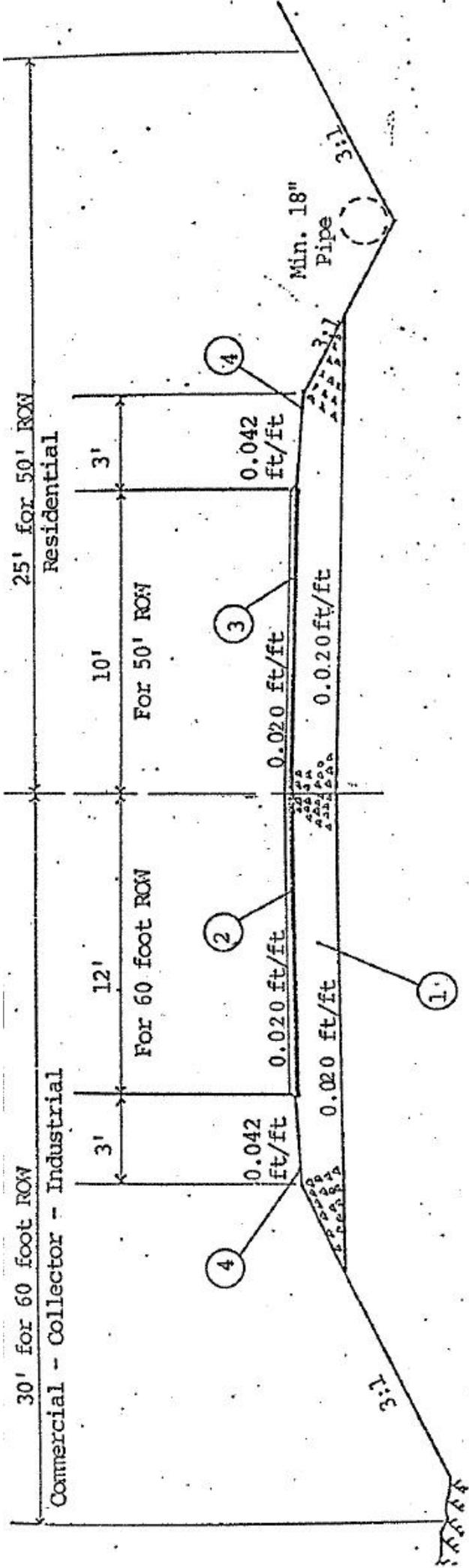
**NOTE:**

1. Mineral Aggregate Base @ 10"
  - 303-01 Mineral Aggregate Type "A" Base Grading D
  - 402-01 Bit. Material for Prime Coat (PC) 0.30-0.35 Gal/S.Y.
  - 402-02 Aggregate for cover Mat'1 (PC) 8-12 lbs./S.Y.
2. Bituminous Leveling-Wearing Surface Grading "CW"
  - 2.0" 200 lbs./S.Y.
  - 307-03.03 Aggregate (BPMB-HM) Grading "CW"
  - 307-03.04 Asphalt Cement (BPMB-HM) Grading "CW"
3. Asphaltic Concrete surface (Hot Mix) Grading "E"
  - 1.5" 165#/sq.yd.
  - 411.02.01 Mineral Aggregate for (ACS) Grading "B"
  - 411.02.02 Asphalt Cement for (ACS) Grading "E"

Specifications are taken from Tennessee Department of Transportation Bureau of Highways, Nashville Standard specifications for Road and Bridge Construction, Adopted March 1, 1981 and all specification provisions pertaining thereto.

All storm sewers shall be concrete pipe and catch basins shall meet the standards of this regulation and the State of Tennessee Department of Transportation Bureau of Highways Standard Specifications and Standard Roadway and Structure Drawings.

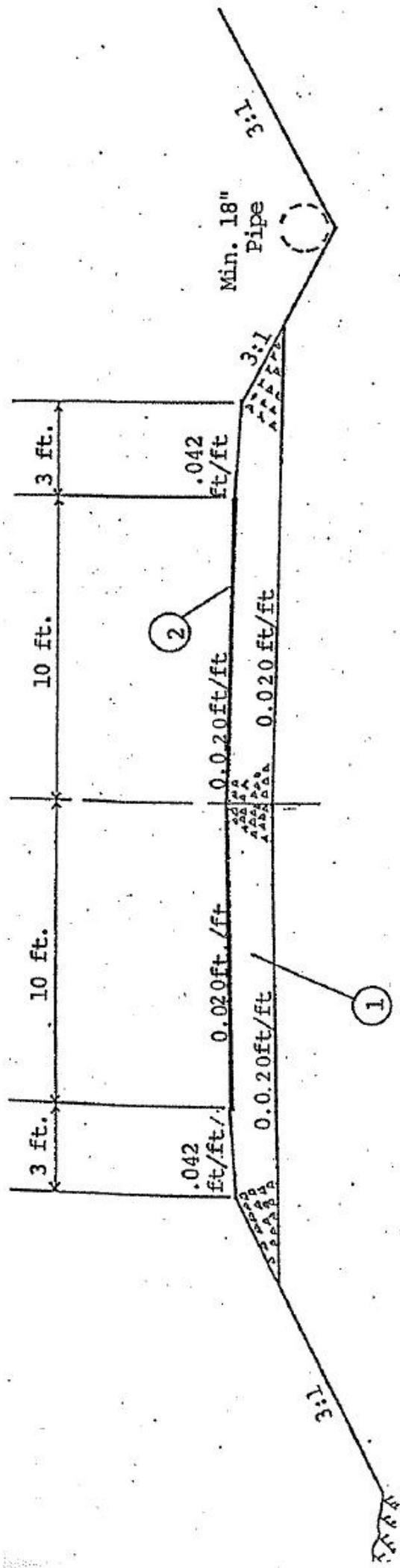
TYPICAL COLLECTOR AND ARTERIAL ROADWAY SECTION



1. Mineral Aggregate Base @ 8" for (50' ROW) 10" for (60' ROW)  
 303-01 Mineral Aggregate Type "A" Base Grading D  
 402.01 Bit. Material for Prime Coat (PC) 0.30-0.35 Gal/S.Y.  
 402-02 Aggregate for cover Mat'l (P.C.) 8-12 lbs./S.Y.
2. Bituminous Leveling-Wearing Surface Grading "CW"  
 2.0" 200 lbs./S.Y.  
 307-03.03 Aggregate (BPMB-HM) Grading "CW"  
 307-03.04 Asphalt Cement (BPMB-HM) Grading "CW"
3. Asphaltic Concrete surface (Hot Mix) Grading "E"  
 1.5" 165#/sq.yd.  
 411.02.01 Mineral Aggregate for (ACS) Grading "E"  
 411.02.02 Asphalt Cement for (ACS) Grading "E"
4. Double Bituminous Surface Treatment  
 404-01.01 Bit. Mat'l (DBST) @ 0.68-0.77 Gal/S.Y.  
 404-01.02 Min. Agg. (DBST) @ 50-65 LBS/S.Y.  
 402-01 Bit. Mat'l (P.C.) @ 0.30-0.35 Gal/S.Y.  
 402-02 Agg. for Cover Mat'l (P.C.) @ 8-12 LBS/S.Y.

NOTE: Specifications are taken from Tennessee Department of Transportation Bureau of Highways, Nashville Standard specifications for Road and Bridge Construction, Adopted March 1, 1981 and all specification provisions pertaining thereto.

TYPICAL ROADWAY SECTION



Requirements for Total Lots from 1 to 10

- 1. Mineral Aggregate Base @ 8"
- 303-01 Mineral Aggregate Type "A" Base Grading D
- Double Bituminous Surface Treatment
- 404-01.01 Bit. Mat'l (D.B.ST.) @ 0.68-0.77 Gal/S.Y.
- 404-01.02 Min. Agg. (D.B.S.T.) @ 50-65 LBS/S.Y.
- 402-01 Bit. Mat'l. (P.C.) @ 0.30-0.35 GAL/S.Y.
- 402-02 Agg. for Cover Mat'l. (P.C.) @ 8-12 LBS/S.Y.

Requirements for Total Lots from 11 to 20

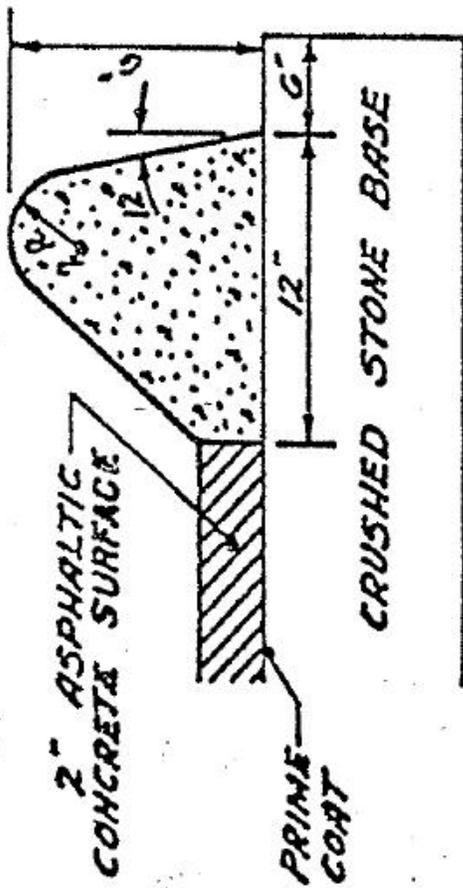
- 1. Mineral Aggregate Base @ 8"
- 303-01 Mineral Aggregate Type "A" Base Grading D
- 402.01 Bit. Material for Prime Coat (PC) 0.30-0.35 Gal/S.Y.
- 402-02 Aggregate for cover Mat'l (P.C.) 8-12 lbs./S.Y.
- 2. Bituminous Leveling-Wearing Surface Grading "CW"
- 2.0" 200 lbs./S.Y.
- 307-03.03 Aggregate (BPMB-HM) Grading "CW"
- 307-03.04 Asphalt Cement (BPMB-HM) Grading "CW"

50' RIGHT-OF-WAY REQUIRED

NOTE: Specifications are taken from Tennessee Department of Transportation Bureau of Highways, Nashville Standard specifications for Road and Bridge Construction. Adopted March 1, 1981 and all specification provisions pertaining thereto.

If over 20 lots refer to Drawing 3

TYPICAL CROSS SECTION FOR LARGE LOT DEVELOPMENT



**TYPICAL CURB DETAIL**  
SCALE: NONE

DWG. NO. 5