

ARTICLE 16 – WATER AND SEWER

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16.1 **GENERALLY**

16.1.1 **Installation Responsibility**

The applicant shall install, at his own expense, all water and sanitary sewer system improvements necessary to provide proper potable water and sanitary sewer service for the property that is the subject of the application. All water and sewer system improvements must be complete and approved prior to approval of any final plat or occupancy of the subdivision or project site. All installations shall be properly connected with an approved and functioning public community water or sewer system.

16.1.2 **Feasibility Study Required**

The applicant or developer must submit a water and sewer feasibility study on the proposed infrastructure designed to serve the subdivision or project site. The study shall be prepared by a South Carolina registered professional engineer and shall be submitted to the City Engineer along with a copy of an application to the South Carolina Department of Health and Environmental Control (SCDHEC) for a permit to construct a waste water collection system and a permit to construct a water distribution system. These documents shall accompany the preliminary subdivision or site plan application. The permit applications shall be submitted only after authorization by the City Engineer.

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16.1.3 Waiver of Feasibility Study

If the City Engineer is readily able to and determines that city sewer and water or other approved public utility facilities are available and adequate to meet the anticipated needs of the subdivision or development project, the requirement for a feasibility report may be waived, provided that the proposed water and sewer service arrangements are mutually agreed among the applicant or developer, the City of North Augusta, and, to the extent necessary, SCDHEC.

16.2 FEASIBILITY STUDIES BY TYPE

16.2.1 Existing Systems

The report on the feasibility of connecting the subdivision or development project to the city water and sewer systems or to an existing approved sewer system or an existing approved water supply system or any combination thereof, shall be completed by the applicant. The study shall include the distances from the subdivision or project to the nearest city water and sewer utilities or other approved systems and the capacity of the existing systems to handle the proposed additional loads.

16.2.2 Separate Sewer System

If connection to the city sewer system or another existing approved sewer system is not deemed feasible, the feasibility of constructing a separate sewer system and treatment facility shall be investigated. This study shall give the location of the treatment facility, the receiving stream, the degree of treatment and the design population.

16.2.3 Separate Water System

If connection to the city water system or another existing approved water supply system is not deemed feasible, the possibility of constructing a separate water supply system shall be investigated. This study shall give the location of the treatment facility, the water source, the degree of treatment and the design population.

16.3 SYSTEM PRIORITIES

The City Engineer and Planning Commission shall give consideration to the method of waste disposal and water supply in the following order or preference:

- a. Connection to the city water supply system and the city sewer system.
- b. Connection to the city water supply system and an approved public sewer system.
- c. Connection to an approved public water supply system and the city sewer system.
- d. Connection to an approved public sewer system and an approved public water supply system.
- e. Connection to an approved public water supply system and an approved private community sewer system.
- f. Connection to an approved public sewer system and individual water supply system.
- g. Connection to an approved private community sewer system and individual water supply system.

16.4 ON-SITE DISPOSAL

For reasons of protecting present sources of water supply and safeguarding the health of the public from possible contamination by improper methods of sewer disposal, the City Engineer and Planning Commission may approve on-site, subsurface sewage disposal systems only when the feasibility study indicates the following:

- a. The existing city or another public sewer system is not readily accessible to the site.

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- b. It is infeasible or economically prohibitive to extend the city system to the property in accordance with the city's utility extension policies.
- c. Justification of the project necessitates consideration of a subsurface sewage disposal system.
- d. The soil percolation and absorption is satisfactory.
- e. On-site disposal will not endanger ground water supplies below the level of the absorption system.
- f. In the event it is necessary to install on-site, subsurface sewage disposal systems, soil percolation, absorption and water table determination tests shall be performed in accordance with SCDHEC requirements.

16.5 WATER SUPPLY REQUIREMENTS

Based on the results of the feasibility report required in §16.2, the applicant or developer shall install or have installed the approved water supply system as follows:

16.5.1 Existing Water System

Where there is an existing city or other public potable water supply system on or near the proposed subdivision or development project, a water supply system connected to the existing city or other public water supply system is required.

16.5.2 Separate Community Water System

Where there is no existing city or public water supply system on or near the subdivision or development project, a separate community water supply system approved by the City Engineer, Planning Commission and SCDHEC shall be required. The approval of such system shall be based on both its adequacy and the provision of acceptable guarantees for its continuation and future maintenance.

16.5.3 Individual Lot Supply

Where there is no existing city or public potable water supply system available and a separate community water supply system is not feasible, each lot in a subdivision must be provided with an individual water supply system in accordance with the requirements of SCDHEC.

16.5.4 Fire Hydrants

Fire hydrants must be installed as an integral part of an extension of the city or other public water supply system or community water supply system in accordance with the design requirements of Appendix D, Construction Standards, and any specific additional requirements stipulated by the City Engineer.

16.6 SANITARY SEWER REQUIREMENTS

Based on the results of the feasibility report the applicant or developer shall install or have installed an adequate, approved sanitary sewer disposal system as follows:

16.6.1 Existing Sewer System

Where there is an existing city or other public sanitary sewer system on or near the subdivision or project site, a complete sanitary sewer collection system must be installed and connected to the city system or other existing public system.

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16.6.2 Planned Public Sewer System

Where there is no existing city or other public sanitary sewer system on or near the subdivision or development project site, but an extension of the city or other public sanitary sewer system is to be constructed on or near the subdivision or development project site within a reasonable time, as determined by the City Engineer and Planning Commission, a complete sanitary sewer collection system for future connection must be installed. The complete sanitary sewer collection system for future connection must be designed and:

- a. Connected to a temporary community treatment facility until such time as the planned public sanitary system is complete and an adequate and approved connection is provided thereto; or
- b. Capped for future use and provided in addition to temporary on-site subsurface sewer disposal systems. On-site subsurface sewer disposal systems may be temporarily utilized only if it is determined and concurred with by the City Engineer that a temporary community treatment facility is not feasible.

16.6.2.1 If a sanitary sewer collection system for future connection is installed in conjunction with a temporary community treatment facility or on-site subsurface sewer disposal systems, such temporary system must be abandoned and the complete sanitary sewer collection system previously installed must be connected to the city or other public sanitary sewer system as soon as it is available and adequate.

16.6.3 Separate Community Sewer System

Where there is no existing city or other public sanitary sewer system, a separate community sanitary sewer system and treatment facility are required. The separate community sanitary sewer system and treatment facility must be approved by SCDHEC, the City Engineer and the Planning Commission. The approval of such system shall be based on both its adequacy and the provision of acceptable guarantees for its continuation and future maintenance.

16.6.4 On-Site Disposal

Where there is no existing public sanitary sewer system and a community sanitary sewer system and treatment facilities are not feasible, on-site subsurface sewage disposal systems shall be installed on individual lots in accordance with the requirements of the City Engineer and SCDHEC.

16.6.5 Connection Prior to Development

If it is determined by SCDHEC that on-site subsurface sewage disposal systems are not feasible, connections to the city system, an approved public system or community sanitary sewer system must be made prior to the development of the subdivision.

16.7 WATER SUPPLY AND SANITARY SEWER SYSTEM PLANS

The plans for the installation of a potable water supply system and a sanitary sewer system must be prepared by a South Carolina registered professional engineer. Such plans shall be subject to the approval of the City Engineer and, to the extent required, by SCDHEC. (See Appendix D, Construction Standards.) Upon completion of construction of the water and sewer systems, copies of the plans as built and approved shall be filed with the city. It shall be the responsibility of the applicant or developer to inform and coordinate the construction of the water and sewer infrastructure system with the various utility providers serving North Augusta.

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16.8 IMPROVEMENT EXPENSES

The applicant or developer shall be fully responsible for the cost of the installation of all water and sewer system improvements required pursuant to this Article.