

## A. Introduction

### 1. Purpose

- a. The purpose of this publication is to state:
  - 1) The design standards and construction specifications for the planning, design, construction, and connection of all public or intended to be public water and sewer utilities.
- b. These standards and specifications have been developed for use by consultants, developers, and contractors who work on water and sewer utility projects within Augusta County and for ACSA personnel. The standards and specifications are not intended as a regulation, but should be followed for all projects involving review and approval through the Augusta County Service Authority which will establish a degree of uniformity for drawings and specifications and materials and equipment for all water and sewer utility projects.

### 2. Authority

- a. The work described herein is under the jurisdiction of the Augusta County Service Authority hereinafter referred to as ACSA.
- b. These policies, Design and Construction Standards, and associated rules and regulations, adopted by the ACSA in accordance with the Code of Augusta County, Virginia and the Virginia Water and Waste Authorities Act (Virginia Code § 15.2-5100 et seq.), are applicable to all existing and future water and sanitary sewerage facilities under or which will be under the jurisdiction of the ACSA. The Design and Construction Standards shall apply only to newly constructed facilities or repairs to or replacements or modification of existing facilities.
- c. Consultants and contractors working on water and sewer utility projects should recognize the fact that State and Federal regulations must be satisfied on all projects. In the event that the ACSA Standards differ from State or Federal Requirements, the more restrictive standard shall be utilized.
- d. Virginia Department of Health (VDH) review and approval for, booster stations, pre-treatment facilities, storage facilities, and water lines larger than 16 inches in diameter is required by the in accordance with section 12VAC5-590-300 of the Waterworks Regulations, in addition to the review and approval required by the ACSA. For gravity sewer projects with average day design flows over 40,000 gpd, pump stations/force mains to gravity sewers with average day design flows >2000 gpd, pump stations/force main to pressurized systems, and vacuum systems a Certificate to Construct (CTC) must be obtained from the Virginia Department of Environmental Quality (DEQ).
- e. It is very difficult to generalize when addressing matters of engineering design without endangering the final product; therefore, consultants should strive for designs that show consideration of details presented herein. However, these details are secondary to good engineering judgment.
- f. In addition, these policies, Design and Construction Standards, and associated rules and regulations are applicable to certain water and sewer mains and sub-

mains which are located on private property and are privately owned and maintained, and connect to or are intended to be connected to water and sewerage facilities owned and operated by the ACSA. The ACSA finds that the improper design, construction, and operation of such privately owned and maintained facilities have the potential (a) to result in violations, chargeable to the ACSA, of permits and applicable laws administered by the Commonwealth of Virginia, related to the proper operation of its treatment facilities, (b) to prevent or impede the ability of the ACSA to serve existing and future customers, and (c) to create avoidable and extraneous demands on the facilities of the ACSA, which demands would, in turn, result in a loss of economic efficiency in the provision of services to its customers. Based on the foregoing findings, and pursuant to authority under Virginia Code §§ 15.2-5114(2) and § 15.2-5137(A), these rules, regulations and Design and Construction Standards shall also apply to water and sewer mains and sub-mains extending onto private property that are connected to or are intended to be connected to water and sewerage facilities owned and operated by the ACSA. Such facilities on private property shall remain privately owned and maintained, but shall be designed, constructed, inspected, and operated in accordance with these rules, regulations and Design and Construction Standards.

As with facilities under or which will be under the jurisdiction of the ACSA, Design and Construction Standards shall apply only to those facilities on private property which are newly constructed or which are repaired, replaced or modified.

### 3. Contact

- a. Inquiries for information or clarification of any item enclosed in this document should be directed to the Executive Director, Augusta County Service Authority, P. O. Box 859, Verona, VA 24482, 540-245-5670.
- b. Additional information can be obtained on the ACSA website: <http://www.acsawater.com/>
- c. Other County departments may be contacted for additional information:
  - 1) Government Center Main Switchboard: 540-245-5600  
<http://www.co.augusta.va.us/> -- County of Augusta
  - 2) Building Inspections: 540-245-5700
  - 3) Community Development/Planning/Zoning: 540-245-5700
  - 4) Parks and Recreation: 540-245-5727

### 4. Plan Submittal Process

#### a. General

All plans, regardless of plan type, are to be submitted to the Augusta County Community Development Department in accordance with Chapter 21 and Chapter 25 Article LXVII and latest versions of the ACSA Design and Construction Standards.

Submittal Packages submitted to the Community Development Department should include application, Augusta County Submittal Checklist located at [www.acsawater.com](http://www.acsawater.com), and any other applicable items as indicated by the Submittal Checklist.

Once plans are submitted, the Community Development Department routes said plans to all review agencies/departments for approval. The Service ACSA will have comments completed and returned to Community Development within 10 business days of the received date for Final Plats, Site Plans, and Erosion and Sediment Control Plans or 45 days for Construction plans. These time frames are the same for the first and subsequent submittals.

Once reviewed, the ACSA comments will be submitted through the Community Development Department Plan Review website for their distribution to other approval agencies and to applicant.

The ACSA reviews plans in the order they are received. The plan preparer is responsible for submitting plans at such a time that will provide adequate review time through the ACSA for meeting any deadlines.

Subdivision and Utility Extension Plan approval shall be valid for 1 year. All other approvals shall coincide with Augusta County Community Development approval terms.

b. AUGUSTA COUNTY SERVICE AUTHORITY REQUIREMENTS

An ACSA Application for Plan Review, the Augusta County Submittal Checklist located at [www.acsawater.com](http://www.acsawater.com), and other forms and submittals as required by the Submittal Checklist must be submitted with all types of plans.

Review of the plans will not commence until all necessary items in the checklist have been received by the ACSA. If submittal package is incomplete, it will be returned with a request for the required information. Plan review will not be performed until a complete submittal package is received by the ASCA.

All engineering plan review, inspection fees, and reserve capacity fees (if applicable) must be paid prior to plan approval.

Plans shall adhere to the ACSA's design and approved product policies.

If any plan is not approved, second and subsequent plans must be submitted to Community Development, with the same procedures as with the initial plan submittal.

Plans may require VDH and/or DEQ review. Plans shall be submitted to these agencies after ACSA review. Review and approval for all pump stations, pre-treatment facilities and sewer lines larger than 12" in diameter is required by DEQ in accordance with Section 9VAC25-790-60 of the Sewage Collection and Treatment Regulations, in addition to the review and approval required by the ACSA. Review and approval of booster stations, storage facilities and water lines larger than 16" in diameter is required by VDH in accordance with Section 12VAC5-590-300 of the Waterworks Regulations in addition to the review and approval required by the ACSA.

Copies of the completed applications for permits from other privately owned public utility providers, railroads, applicable environmental agencies, shall be provided to ACSA at the time of plan submittal. Developer shall also coordinate design and placement with any existing easement restrictions and

agreements required by the utility companies. New agreements/permits regarding shared easement areas or installation shall be reviewed and approved by the ACSA prior to plan approval.

For further information please reference Policy 10.6 “Plan Review and Project Acceptance for Water and Sewer Service.”

c. FEES REQUIRED FOR ACSA APPROVAL

The current fee schedule is available at [www.acsawater.com](http://www.acsawater.com) or by calling the ACSA.

5. For information regarding application for water or sewer service, additional plan submittal and review requirements, reserved capacity, acceptance of new construction, and other policies, please see the ACSA Operation Procedures and Policy Manual (OPPM), latest edition. This manual may be reviewed at the ACSA offices, or viewed on-line at [www.acsawater.com](http://www.acsawater.com).