

SECTION 1 GENERAL PROVISIONS

1.00 GENERAL

All construction projects shall conform to the requirements of the Districts Engineering Design and Construction Standards, and the Code of Ordinances of Eastover Sanitary District. The design of water systems and sanitary sewer systems shall be signed and sealed by a licensed North Carolina Professional Engineer in accordance with N.C. General Statute 89.

- Water Distribution Specifications – See Section 2
- Design Detail Drawings – See Section 3
- Approval Process for Water Extensions – See Section 4
- Approval Process for Sewer Extensions – See Section 5

1.01 QUALITY OF MATERIALS

It is the intent of this specification to provide materials of the highest standard known to the trade and to provide materials free from defects in workmanship and product. Equal materials not specified may be used if provided necessary documentation and samples necessary for the District to determine their acceptability and **ISSUE A WRITTEN APPROVAL LETTER**. Current standards and/or the latest revisions shall apply in all cases where materials are described by these standards.

1.02 INSPECTIONS

The Contractor shall provide the necessary manpower and equipment required as a part of the inspection process. The presence of the District Engineer or Eastover Sanitary District Staff at the work site shall in no way lessen the Contractor's responsibility for conformity with the plans and specifications. Should the District Engineer or Eastover Sanitary District Staff accept materials, or work that does not conform to plans and specifications, whether from lack of discovery or for any other reason, it shall in no way prevent later rejection or corrections to the unsatisfactory materials or work when discovered. The Contractor shall have no claim for losses suffered due to any necessary removals or repairs resulting from the unsatisfactory work. Any work which has been covered without the District Engineer or Eastover Sanitary District Staff's approval, shall at District Engineer or Eastover Sanitary District Staff's request, be uncovered and be made available for inspection at the Contractor's expense. Work performed before or after District staff's normal work hours or during the weekend or District Holidays shall comply

with District standards and shall include only such tasks that do not require observation by the District's Engineer, unless previous arrangements have been made for overtime with the District Inspection Services.

1.03 CLEARING AND GRUBBING

The work of clearing and grubbing shall consist of the cutting, removal, and satisfactory disposal of all vegetation and all surface debris. Clearing and grubbing shall be conducted in a manner to prevent damage to vegetation that is intended to remain and also to prevent damage to adjacent property. Tree protection fencing shall be installed to protect all areas that are to remain undisturbed or protected.

1.04 EARTHWORK

Earthwork shall be defined as removal of earth or rock from its natural location or as the depositing of such material into fills areas as designated on the plans.

Fill material shall be free from construction material, debris, frozen material, organic matter or unstable material. For the top 2 feet below finished sub grade, no fill material shall be used weighing less than 100 pounds per cubic foot. The top 2 feet of backfill material shall be free from stones greater than 4 inches.

For all areas under a proposed roadway, the sub base, and the entire base course shall be compacted to a density of 100% maximum Standard Proctor dry density as determined by AASHTO method T99. For that portion of fill beyond the back of curb, to the right-of-way compact to a density of NO LESS THAN 98% of the maximum Standard Proctor dry density as determined by AASHTO method T99. Fill material shall be placed in lifts of 8 inches or less of uncompacted soil.

Other fill material shall be compacted to a density of NO LESS THAN 90% of the maximum Standard Proctor dry density as determined by AASHTO method T99. Backfill material shall be placed in lifts of 12 inches or less of uncompacted soil. Compaction test shall be performed at 500lf intervals and results submitted to the District

1.05 MAINTENANCE OF TRAFFIC

General

When construction occurs in a traffic area control devices must be erected, maintained, relocated, and removed in accordance with the plans specifications, NCDOT Supplement to the MUTCD, and the MUTCD. This requirement shall apply for all construction occurring on public streets, including construction or repairs by utility companies. The MUTCD

referred to in this provision shall be the current edition of the Manual on Uniform Traffic Control Devices for Streets and Highways, as prepared by the National Advisory Committee on Uniform Traffic Control Devices, including all standard documents referred to in Section 1A-7 of the MUTCD.

The Contractor shall assume full responsibility for the continuous and expeditious maintenance or replacement of all construction warning signs, barricades, and other traffic control devices. The Contractor shall continuously review and maintain all traffic control measures to assure that adequate provisions have been made for the safety of the public and workers. Failure to maintain all traffic control devices in a satisfactory condition shall be cause for suspension of construction operations until proper traffic control is re-established.

1.06 CONCRETE

Concrete shall be only plant-mixed or transit-mixed concrete conforming to ASTM C33 for aggregates and to ASTM C94 for ready-mixed concrete. Any concrete poured that has a slump over 4 inches as per ASTM C143, or has a batched time of more than 90 minutes, will be considered unacceptable. Concrete shall not be deposited on frozen sub grade. Concrete shall not be poured when the air temperature is falling below 40°F and the predicted low temperature for succeeding 24-hour period is less than 32°F. All concrete when placed in the forms shall have a temperature of between 50°F and 90°F and shall be maintained at a temperature of not less than 50°F for at least 72 hours for normal concrete and 24 hours for high early strength concrete, or for as much time as is necessary to secure proper rate of curing and designed compressive strength. Concrete shall be air entrained with 5-7% air. Retarders and accelerators shall be used only as directed by the Engineers.

1.07 PLANTINGS OR STRUCTURES WITHIN DISTRICT UTILITY EASEMENTS.

An "easement" shall mean any area to which the District has unlimited access for servicing utility lines. Any plantings installed within an easement may be damaged or destroyed during the course of servicing. The District will not be liable for any damage to plantings, fences, accessory structures located either within an easement or in any manner restricting access to the easement. Further, the District shall not be liable for any incidental or consequential damage caused by the District removal of any structure impairing the easement. Any contractor or landowner who has impaired the easement by allowing an obstruction to be placed on the easement shall indemnify and hold harmless the District for any resulting incidental or consequential damages. The District will recede as necessary any bare or disturbed soil for erosion control purposes.

Small and medium shrubs, groundcovers, or grasses may be planted by the property owner within an easement (subject to the preceding paragraph) and as long as those planting do not inhibit access of the easement with required equipment by the District and/or its agents.

Small trees (under 30 feet in height at maturity) may be planted a minimum of 10 feet from the centerline of the closest utility pipeline within the easement or 10 feet from the center of the easement whichever is greater, and subject to the preceding paragraphs. Small trees as defined above shall include redbuds, fringe tree, serviceberry, crape myrtle, golden raintree, hawthorn, hornbeam, saucer or star magnolia, sassafras, smoke tree, sourwood, and sumac.

Large trees, fences, gates, or any type of structures (e.g. retaining walls or utility sheds) shall not be placed within any District utility easement.

1.08 LICENSE REQUIREMENTS

All Contractors performing any construction activity involving the Eastover Sanitary District utility system or street system shall be licensed to practice general contracting in the State of North Carolina. The Contractor shall be classified in the appropriate area of license for the type of construction to be performed and shall not perform construction activity which exceeds the limitations of the designated Contractor's license.

1.09 OSHA STANDARDS

All Contractors and their employees must comply with all OSHA standards while working on District projects, while on Eastover Sanitary District property or rights of way, and for all development projects within the Eastover Sanitary District.

1.10 SAFETY AND HEALTH HAZARDS

The operations of any Contractor shall not expose Eastover Sanitary District employees or residents to any hazardous chemicals or other occupational safety and health hazards. All Contractors working on District projects or Eastover Sanitary District property or rights of way shall inform every individual who enters the project concerning hazardous chemicals which the Contractor might be using and to which the individual might become exposed by working in that area.

1.11 GEODETIC MONUMENTS

NAD83 Geodetic monuments must be tied to the project when the project is within 2000 feet of a monument.

1.12 FAILURE TO RESPOND

Where the Project Owner does not respond to directives by the District to complete certain repairs and/or work that, in the District's opinion, causes a safety hazard to the potential for damages, the District may have such work performed and charge the project owner all associated expenses plus a 25% mobilization fee (examples: trench repairs, street washing, etc.). This section shall not create an obligation of the District to undertake such work or to be liable in any way for failure to undertake such work. The time frame for responding to the District's directives shall be as directed by the District Manager.