

## Lancaster County Water & Sewer District General Water Notes

- 1.) **These notes are not inclusive of all Water & Sewer Specifications; please refer to Lancaster County Water and Sewer District's Standard Water & Sewer Specifications for detailed information. All the following will be at contractor's expense along with any other required infrastructure as determined by Lancaster County Water and Sewer District (LCWSD).**
- 2.) For additional information on most recent LCWSD Water Specifications and/or Developer Policy, please visit our web site [www.lcwasd.org](http://www.lcwasd.org) or contact LCWSD Water Superintendent or Inspector.
- 3.) Construction of water systems shall comply with all applicable state and local regulations and the standard specifications of LCWSD. All material shall be in accordance with the standard specifications of the LCWSD.
- 4.) Sanitary sewer mains and water mains shall be laid at least 10' (ten feet) apart. If site conditions preclude this horizontal separation, then the water main shall be laid in a separate trench with at least 18" vertical separation.
- 5.) Where water mains cross over sanitary sewer mains, a minimum vertical separation of 18" shall be maintained.
- 6.) The contractor shall be fully responsible for contacting all appropriate parties and assuring that existing utilities are located prior to construction.
- 7.) The contractor is fully responsible for verifying the size and location of all drainage pipes and/or structures, or other underground utilities, affected by installation of the water.
- 8.) Each lot shall be served by an individual 3/4" water service, located approximately on lot lines. The water service line shall be located such that the water meter is not located within the driveway. Water meters will not be set if water meter boxes, valve boxes or their appurtenances are damaged or improperly positioned. All water meter boxes shall be as approved by LCWSD and shall be installed per the standard detail.
- 9.) LCWSD approved 12ga stranded coated tracer wire shall be installed on all water mains and service connections. The wire shall extend into and to the top of the meter or valve box at all locations without exception.
- 10.) The contractor shall submit as-built drawings of the water and sanitary sewer improvements specified in these plans upon completion of the respective phases of work.

- 11.) The contractor shall at all times provide and maintain ample means and equipment with which to remove and properly dispose of any and all water entering the excavation or other parts of the work, and keep all excavations dry until such time as pipe laying and grading is completed and structures around the pipe in un-backfilled trenches or over masonry to be built are completed. No water shall be allowed to rise until the concrete or mortar has set (24 hours min.). All water pumped or drained from the work shall be disposed of in such a manner as to prevent siltation and/or erosion to adjacent property or other construction.
- 12.) Trees are not to be planted over water mains, sewer mains or within their easements.
- 13.) No proposed or future sidewalks shall be installed over any water main within the project unless approved by LCWSD. Water meters and sewer service connections shall be located outside of any sidewalk.
- 14.) The contractor is to provide a minimum of 48 hour notice to owner or representative prior to interruption of any existing utility, if being utilized also Lancaster County Water and Sewer District.
- 15.) The contractor is responsible for repair and/or replacement of any utilities damaged during construction.
- 16.) The contractor is responsible for ensuring that all necessary permits and approvals have been obtained prior to construction. These permits and approvals may include but are not limited to grading, demolition, zoning, building, driveway, detention, subdivision, special use, sewer and water.
- 17.) Water lines under roads will have connections stubbed out before road is surfaced.
- 18.) Fire hydrants shall have a clear space of 3 feet from any permanent structures. Hydrants shall be ordered from the manufacturer color coded to meet the requirements of LCWSD's fire hydrant flow guidelines.
- 19.) Refer to LCWSD Specifications and LCWSD Developer policy for additional requirements.
- 20.) Utility easements are provided to LCWSD either prior to or concluding construction. All water meters shall be placed within this easement and not in the sidewalk regardless of how shown on the plan. At fire hydrants the easement shall be 10 feet in all directions measured from the center of the hydrant per LCWSD standard details regardless of how shown on this plan.

- 21.) Contractor is responsible for submitting three separate sets of water and sewer materials approval list to engineer and LCWSD'S Engineering Department prior to pre-construction meeting.
- 22.) Contractor to contact LCWSD inspector, Michael Billings (803) 577-2819, Matthew Whitley (803) 577-9252 and/or Scottie Morgan (803) 235-0670, 48 hours prior to starting construction and PUPS (Palmetto Utility Protections Service: 1-888-721-7877 for assistance in locating any existing water and sewer lines.
- 23.) Contractor shall be solely responsible for location and protection of existing above and below ground utilities and structures. Any and all mains, lines, or individual services damaged during construction shall be repaired immediately at no additional expense to the owner.
- 24.) It is the contractor's responsibility to ensure that all local, state, and federal construction safety regulations are followed during the construction activities associated with this project.
- 25.) Exact locations of water service connections, manholes, valves, and all other appurtenances are required for as-built records as well as distances from downstream manholes to any tees, wyes, or stub-outs, and the distance of the sewer service line stubbed off of main.
- 26.) Minimum cover of 36 inches is required for water mains.
- 27.) Ductile Iron Pipe is required for water mains if the following conditions occur:
  - Less than 12-inch clearance from storm drains, gas mains, telephone duct banks and underground cables.
  - Less than 18-inch vertical clearance for water line installed above sewer line.
  - Water line crossing under sewer line.
  - Less than 10 Feet horizontal separation for water parallel to sewer line.
- 28.) The size and location of existing water and sewer lines is to be verified by the contractor.
- 29.) Contractor shall coordinate the proposed water and sewer line work with LCWSD.
- 30.) Material and workmanship requirements to be in accordance with LCWSD policies, procedures, standards, and specifications.
- 31.) Contractor shall repair all fences, mailboxes, or similar structures owned by others which are disturbed during construction.
- 32.) Any existing water or sewer infrastructure that will be located under pavement within SCDOT's Right-of-Way, as a result of any road improvements associated with a development must be relocated at the Developer's expense. LCWSD shall approve the relocation plan prior to implementation.