

711.3.1 Special Requirements.

- A. Perform the work in accordance with these specifications, the Standard Construction Details, the DelDOT utility manual, and the utility owner's specifications. The utility owner's specifications will take precedence over the Department's specifications in the event of a conflict between the 2 sets of specifications.
- B. Coordinate sanitary sewer service construction activities with the utility owner. Provide the utility owner with a reasonable time to respond to requests for information and coordination. At least 3 weeks before beginning the work, submit a plan describing the sequence for sanitary sewer service shutdowns and tie-ins for approval by the engineer.
- C. The utility owner and the engineer will determine the times that the work can occur and the sequence of the work. Begin work only after obtaining the engineer's permission. Notify the utility owner a minimum of 48 hours before beginning work. Notify both the engineer and the utility owner of delays to the scheduled work.
- D. Do not disrupt the operation of the existing sanitary sewer facilities without prior approval of the utility owner. Construct, maintain, and remove temporary sanitary sewer bypasses used during construction to maintain sanitary sewer service.
- E. Guarantee the work for a period determined by the utility owner after the date of completion and acceptance of the work and provide all repair work necessary during that period of time.

711.3.2 Excavation.

Excavate in accordance with Section 207, except as amended here. Excavate pipe trenches that provide bearing for the full length of the pipes. Excavate trenches for sanitary sewer service connections to the minimum standard depth required by the utility owner's specifications or to such depth as required to connect to existing mains or service pipes.

711.3.3 Installation.

- A. Do not place pipe on a frozen foundation or if frost is likely to penetrate the bottom of an excavation. Keep excavations free from water or other liquids during the progress of the work. Backfill trenches in accordance with Section 207.
- B. Clean all pipes, fittings, valves, and appurtenances thoroughly before placement. Perform work only under the supervision of the utility owner's inspector.
- C. Close the end of each open pipe at the end of each workday in accordance with the utility owner's specifications.

711.3.4 Acceptance Testing and Connection.

Test and connect pipe in accordance with the utility owner's specifications.

711.4 Method of Measurement.

- A. The Department will measure the quantity of adjusted and repaired existing sanitary sewer services as the number of each adjusted or repaired and accepted.
- B. The Department will measure the quantity of sanitary sewer items by linear foot or each as placed and accepted. The Department will measure sanitary sewer laterals adjustments as the actual number of laterals adjusted and accepted.

711.5 Basis of Payment.

- A. Price and payment will constitute full compensation for providing and placing all materials, excavating, backfilling, and compacting. The Department will consider saw cutting existing bituminous concrete or PCC pavement and disposing of waste materials as incidental to the work and will make no separate payment for saw cutting or disposing of materials.
- B. Price and payment for sanitary sewer system items, including adjustment of sanitary sewer laterals, includes:
 - 1. Providing and placing materials;
 - 2. testing the sanitary sewer system;
 - 3. connections;
 - 4. maintaining service during construction;
 - 5. excavating;
 - 6. disposing of excess excavated material;
 - 7. backfilling and backfill material;
 - 8. providing and placing warning tape;
 - 9. aggregate pipe bedding;
 - 10. shoring;
 - 11. temporary support of existing utilities;
 - 12. dewatering;
 - 13. tanker trucks and pumps;
 - 14. disposing of excess flow; and
 - 15. as-built preparation and collection.
- C. The Department will make no separate payment for temporary bypasses. Emergency repairs are the contractor’s responsibility. Upon notification by telecommunication from the utility owner, attend to repairs immediately. In the event the utility owner is unable to contact the contractor, or the contractor fails to make the emergency repairs in a length of time determined by the utility owner, the utility owner reserves the right to perform the emergency repair work. In such a case, reimburse the utility owner for the costs of the repairs.

ITEM	DESCRIPTION	UNIT
711001	ADJUST SANITARY SEWER LATERALS	EACH
711002	SANITARY SEWER SYSTEM	LS
711003	SANITARY AND WATER FACILITY	LS
711004	SEWER FORCE MAIN AIR RELEASE VALVE AND ASSEMBLY, 2"	EACH
711005	ADJUST / RELOCATE FORCE MAIN	LS
711006	SANITARY FORCE MAIN AND ACCESSORIES	LS
711007	INSTALLING SANITARY SEWER, PVC, 4"	LF
711008	INSTALLING SANITARY SEWER, PVC, 6"	LF
711009	INSTALLING SANITARY SEWER, PVC, 8"	LF

SANITARY SEWER SYSTEM

SECTION 711

ITEM	DESCRIPTION	UNIT
711010	INSTALLING SANITARY SEWER, PVC, 10"	LF
711011	INSTALLING SANITARY SEWER, PVC, 12"	LF
711012	INSTALLING SANITARY SEWER, PVC, 15"	LF
711013	INSTALLING SANITARY SEWER, PVC, 18"	LF
711014	INSTALLING SANITARY SEWER, PVC, 21"	LF
711015	INSTALLING SANITARY SEWER, PVC, 24"	LF
711016	INSTALLING SANITARY SEWER, DIP, 4"	LF
711017	INSTALLING SANITARY SEWER, DIP, 6"	LF
711018	INSTALLING SANITARY SEWER, DIP, 8"	LF
711019	INSTALLING SANITARY SEWER, DIP, 8" W/ BOLTLESS RESTRAINED JOINTS	LF
711020	INSTALLING SANITARY SEWER, DIP, 10"	LF
711021	INSTALLING SANITARY SEWER, DIP, 12"	LF
711022	INSTALLING SANITARY SEWER, DIP, 16"	LF
711023	INSTALLING SANITARY SEWER, DIP, 18"	LF
711024	INSTALLING SANITARY SEWER, DIP, 24"	LF
711025	INSTALLING SANITARY SEWER, DIP, 24", W/ BOLTLESS RESTRAINED JOINTS	LF
711026	INSTALLING SANITARY SEWER, DIP, 30"	LF
711027	INSTALLING SANITARY SEWER, DIP, 42"	LF
711028	INSTALLING SANITARY SEWER, RCP, 24"	LF
711029	INSTALLING SANITARY SEWER, RCP, 30"	LF
711030	INSTALLING SANITARY SEWER (FORCE MAIN), PVC, 1 1/2"	LF
711031	INSTALLING SANITARY SEWER (FORCE MAIN), PVC, 2"	LF
711032	INSTALLING SANITARY SEWER (FORCE MAIN), PVC, 2 1/2"	LF
711033	INSTALLING SANITARY SEWER (FORCE MAIN), PVC, 3"	LF
711034	INSTALLING SANITARY SEWER (FORCE MAIN), PVC, 4"	LF
711035	INSTALLING SANITARY SEWER (FORCE MAIN), PVC, 6"	LF
711036	INSTALLING SANITARY SEWER (FORCE MAIN), PVC, 8"	LF
711037	INSTALLING SANITARY SEWER (FORCE MAIN), DIP, 4"	LF
711038	INSTALLING SANITARY SEWER (FORCE MAIN), DIP, 6"	LF
711039	INSTALLING SANITARY SEWER (FORCE MAIN), DIP, 8"	LF
711040	INSTALLING SANITARY SEWER (FORCE MAIN), DIP, 10"	LF
711041	INSTALLING SANITARY SEWER (FORCE MAIN), DIP, 12"	LF
711042	INSTALLING SANITARY SEWER (FORCE MAIN), DIP, 24"	LF
711043	INSTALLING SANITARY SEWER (FORCE MAIN), DIP 30"	LF
711044	INSTALLING SANITARY SEWER (FORCE MAIN) BY BORING, PE, 2"	LF
711045	INSTALLING SANITARY SEWER (FORCE MAIN) BY BORING, PE, 4"	LF
711046	INSTALLING SANITARY SEWER (FORCE MAIN) BY BORING, PE, 6"	LF
711047	INSTALLING SANITARY SEWER (FORCE MAIN) BY BORING, PE, 10"	LF
711048	INSTALLING SANITARY SEWER (FORCE MAIN), HDPE, 8"	LF