

NON-EDWARD'S AQUIFER RECHARGE ZONE

SANITARY SEWER SYSTEM

GENERAL NOTES

Revised January 26, 2006

1. All materials and construction procedures within the scope of this project shall be approved by the San Antonio Water System (SAWS) and comply with the following as applicable:
 - A. Current Texas Commission on Environmental Quality's Design Criteria for Sewerage Systems [30 TAC 317.1, 30 TAC 317.2, 30 TAC 317.3 and 30 TAC 317.13].
 - B. Current "San Antonio Water System Standard Specifications for Construction".
 - C. Current City of San Antonio "Standard Specifications for Public Works Construction".
 - D. Current TxDOT "Standard Specification for Construction of Highways, Streets and Drainage".
 - E. Current City of San Antonio "Right - Of - Way Ordinance and Criteria Manual".
2. The Contractor shall not proceed with any pipe installation work until they obtain a copy of the approved G.C.P. from the Consultant and has been notified by SAWS Construction Inspection Division to proceed with the work and has arranged a meeting with the inspector and consultant for the work requirements.
3. The locations and depths of existing utilities, including service laterals, and drainage structures shown on the plans are approximate only. The Contractor shall verify the exact location and depths of underground utilities at least 48 hours prior to construction whether shown on plans or not, and to protect the same during construction.

San Antonio Water System	233-2010
COSA Drainage	207-2800
COSA Traffic Signal Operations	207-7765
Texas State Wide One Call Locator	1-800-545-6005
City Public Service	
South Western Bell	"
Time Warner Cable	"
Valero Energy Co.	"
Bexar Metropolitan Water District	354-6536

4. The Contractor shall be responsible for restoring to its original or better condition from damage done to existing fences, curbs, streets, driveways, landscaping and structures.
5. The Contractor shall avoid cutting roots larger than one inch in diameter when excavating near existing trees. Excavation in vicinity of trees shall proceed with caution. The Contractor shall contact the City Arborist at 207-8053 for guidance. SAWS Constuction Inspector shall also be notified.
6. The Contractor shall maintain service to existing sanitary sewers at all times during construction.
7. Due to Federal Regulations Title 49, Part 192.181, City Public Service must maintain access to gas valves at all times. The Contractor must protect and work around gas valves that are in the project areas.
8. All residential sewer service laterals shall be extended to the property line and capped and sealed.
9. On all manholes to be abandoned, the rings and covers shall be salvaged in accordance with the most current San Antonio Water System's Standard Specification for Construction, Item 101: Preparation of right-of-way. The hole should be backfilled to the satisfaction of the Inspector.

BLASTING

10. When allowable, blasting shall be performed in accordance with appropriate criteria established by the National Fire Protection Association [30 TAC 313.5 (c) (6)].
11. Blasting for sewer line excavation must be done in such a manner as to minimize the fracturing of rock beyond the required excavation. The Contractor shall consider the elevation of the existing sanitary sewer main in relation to the blasting charge and the relative direction of existing and proposed trenches. Blasting within such areas shall be accomplished only by qualified blasting contractors who hold blasting licenses from a qualified agency such as the San Antonio Fire Department in Bexar County. Any damage to existing sanitary sewers resulting from blasting shall be repaired and retested by the contractor at his own expense.
12. No blasting shall be performed within 75 feet of existing utilities.
13. After construction, testing will be done by TV camera by the Contractor and observed by Inspector, and Wastewater Engineering personnel, as the camera is run through the lines. Any abnormalities, such as broken pipe or misaligned joints, must be replaced by the Contractor at his expense. Contractor to provide TV tapes to Construction Inspection for review prior to final inspection of the project.

EXCAVATION

14. Contractor and/or Contractor's independently retained employee or structural design/geotechnical/safety/equipment consultant, if any, shall review these plans and available geotechnical information and the anticipated installation site(s) within the project work area in order to implement Contractor's trench excavation safety protection systems, programs and/or procedures. The Contractor's implementation of the systems, programs and/or procedures shall provide for adequate trench excavation safety protection that complies with as a minimum, OSHA Standards for trench excavations. Specifically, Contractor and/or Contractor's independently retained employee or safety consultant shall implement a trench safety program in accordance with OSHA Standards governing the presence and activities of individuals working in and around trench excavation.
15. Contractor is responsible for removal of all waste materials upon project completion. The Contractor shall not permanently place any waste materials in the 100-year flood plain without first obtaining an approved Flood Plain Development Permit.
16. Water jetting the backfill within a street will not be permitted. Sanitary sewer trenches subject to traffic shall conform to the S.A.W.S. Standard Specifications for Construction, Item No. 550 & 804.

WATER LINE CROSSING

17. Where the minimum 9 foot separation distance between sewer lines and water lines/mains cannot be maintained, the installation of sewer lines shall be in strict accordance with the Texas Natural Resource Conservation Commission's Rules (30 TAC 317.13 Appendix E).

EROSION AND SEDIMENTATION CONTROL

18. The Texas Commission on Environmental Quality and Environmental Protection Agency (EPA) require erosion and sedimentation control for construction of sewer collection systems. Developer or authorized representative shall provide erosion and sedimentation control as notes on the project's plan and profile sheets.
19. All temporary erosion and sedimentation controls shall be removed by the Contractor at final acceptance of the project by the San Antonio Water System.

SUPPLEMENTARY

20. No extra-payment shall be allowed for work called for on the plans but not included on the bid schedule. This incidental work will be required and shall be included under the pay item to which it relates.
21. The Developer dedicates the sanitary sewer mains upon completion by the Developer and acceptance by the San Antonio Water System. The San Antonio Water System will own and maintain said sanitary sewer mains which are located within this particular subdivision. (As applicable)
22. The Developer will be responsible for the lift station maintenance fee in effect at the time of certification. The current maintenance fee per lift station will be collected prior to plat recordation
23. All PVC Sewer Pipe with over 14 feet of cover shall be extra strength pipe, Minimum Stiffness of 115 PSI.
24. WORK COMPLETED BY THE CONTRACTOR WHICH HAS NOT RECEIVED A WORK ORDER OR THE NOTICE TO PROCEED WITH THE SAN ANTONIO WATER SYSTEM CONSTRUCTION INSPECTION DIVISION WILL BE SUBJECT TO REMOVAL AND REPLACEMENT BY AND AT THE EXPENSE OF THE CONTRACTOR.