

NOTES FOR WASTEWATER SYSTEM:

1. WASTEWATER INSTALLATION SHALL BE IN ACCORDANCE WITH "TEN STATES STANDARDS", S.C.D.H.E.C. REGULATIONS AND CHARLESTON WATER SYSTEM'S "MINIMUM STANDARDS FOR THE DESIGN & CONSTRUCTION OF WATER AND SANITARY SEWER SYSTEMS" AS FOUND AT www.charlestonwater.com.
2. CONNECTIONS TO EXISTING MANHOLES SHALL BE MADE IN THE PRESENCE OF A CHARLESTON CWS REPRESENTATIVE. CONTRACTOR SHALL NOTIFY CWS AT LEAST 72 HOURS BEFORE CONNECTION BEGINS.
3. ROUGH GRADING SHALL BE DONE PRIOR TO INSTALLATION OF WASTEWATER MAINS.
4. NO MANHOLE COVERS ARE ALLOWED IN CURBING. MANHOLES SHALL BE LOCATED OUTSIDE CONCRETE AND ASPHALT PAVING WHENEVER POSSIBLE.
5. CONNECTIONS TO GRAVITY LINES AND MANHOLES SHALL BE EQUAL TO OR GREATER THAN 90° TO THE DOWNSTREAM LINE.
6. CONTRACTOR SHALL INSTALL WATERTIGHT RINGS AND COVERS ON ALL MANHOLES.
7. ALL 6" SEWER SERVICES SHALL BE SDR 26 PVC AND LAID ON A MINIMUM SLOPE OF 1.0% UNLESS OTHERWISE STATED. THE SERVICES SHALL BE CONNECTED TO MANHOLES WHERE REASONABLY POSSIBLE.
8. ALL GRAVITY MAINS SHALL BE SDR 26 PVC UNLESS CONDITIONS REQUIRE PVC SDR-21 OR DIP.
9. DIP OR PVC SDR-21 FOR WASTEWATER SHALL BE USED:
 - WITH LESS THAN 3' OF COVER OR GREATER THAN 18' OF COVER;
 - CROSSING OVER STORM DRAINAGE PIPE WITH LESS THAN 2' OF CLEARANCE;
 - CROSSING UNDER STORM DRAINAGE PIPE WITH LESS THAN 3' OF CLEARANCE;
 - CROSSING WATER MAINS;
 - WITHIN CASINGS.
10. LINING FOR DIP FOR WASTEWATER SHALL BE PROTECTO 401 AT 40 MILS THICKNESS.
11. SLEEVES SHALL BE USED TO TRANSITION BETWEEN PVC AND DIP. FERNCO OR SIMILAR COUPLINGS ARE NOT ALLOWED.
12. WHERE WATER AND SANITARY SEWER LINES CROSS WITHIN 18", THE LINE LAID LAST SHALL HAVE A FULL LENGTH OF PIPE INSTALLED WITH ITS MIDPOINT VERTICALLY IN LINE WITH THE OTHER LINE. THE CROSSING SHALL BE AT NOT LESS THAN A 45° ANGLE.
13. ALL MATERIAL SHALL CONFORM TO CWS SPECIFICATIONS AS TO TYPE, DESIGN, AND MANUFACTURER.
14. DEVELOPER'S ENGINEER SHALL INSPECT PROJECT WEEKLY TO PROVIDE WRITTEN WEEKLY UPDATES AND TO CERTIFY THE CORRECTNESS OF THE WASTEWATER PORTION OF CONTRACTOR'S RECORD DRAWINGS.
15. CONTRACTOR INSTALLING THE WASTEWATER SYSTEM SHALL BE ON CWS'S "APPROVED CONTRACTORS LIST".
16. DEVELOPER SHALL TAKE NECESSARY MEASURES TO PROTECT CWS WASTEWATER SYSTEM DURING THE TIME BETWEEN THE COMMISSIONING INSPECTION AND THE 2-YEAR MAINTENANCE BOND INSPECTION.
17. JUST PRIOR TO COMMISSIONING, CONTRACTOR, AT HIS EXPENSE, SHALL TELEWISE IN DVD FORMAT ALL SEWER MAINS AND SERVICES FOR CWS'S RECORDS.

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