

IRONHOUSE SANITARY DISTRICT SEWER NOTES

1. ALL SANITARY SEWER CONSTRUCTION SHALL CONFORM TO THE REQUIREMENTS OF THE IRONHOUSE SANITARY DISTRICT (ISD) AND BE SUBJECT TO INSPECTION BY AN INSPECTOR REPRESENTING ISD. COPIES OF THE STANDARD PLANS AND SPECIFICATIONS ARE AVAILABLE ON OUR WEBSITE AT IRONHOUSESANITARYDISTRICT.COM.
2. ALL GRAVITY SANITARY SEWER PIPE SHALL BE POLYVINYL CHLORIDE PIPE CONFORMING TO ASTM D 3034, SDR 26, UNLESS OTHERWISE NOTED. ALL SANITARY SEWER FORCEMAINS SHALL CONFORM TO AWWA C900, CLASS 200 (DR14). CONTRACTOR SHALL OBTAIN APPROVAL FROM ISD FOR SANITARY SEWER PIPE OR FORCEMAIN THAT DEVIATES FROM THIS CRITERIA. REFER TO THE STANDARD PLANS AND SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
3. GRAVITY SANITARY SEWERS SHALL BE LAID AT THE FOLLOWING MINIMUM SLOPES:

| SEWER SIZE (INCHES) | MINIMUM SLOPE (FEET/FT) |
|------------------------|----------------------------|
| 8 | 0.0035 |
| 10 | 0.0028 |
| 12 | 0.0017 |
| 15 | 0.0015 |

4. MANHOLES SHALL BE PLACED AT INTERVALS NOT GREATER THAN THREE-HUNDRED (300) FEET.
5. ALL PIPES DELIVERED TO JOB SITE ARE TO BE MARKED AS TO PIPE TYPE, STRENGTH, CLASS AND BRAND NAME.
6. FINAL TESTS OF THE SANITARY SEWER ARE TO BE PERFORMED AFTER 100% ROCK IS PLACED AND COMPACTION TEST RESULTS ARE SATISFACTORY TO ISD, AS PER THE STANDARD SPECIFICATIONS FOR DESIGN AND CONSTRUCTION, CENTRAL CONTRA COSTA SANITARY DISTRICT.
7. PLASTIC PIPE SHALL BE MANDRELED WITH RIGID MANDREL WITH EFFECTIVE CIRCULAR CROSS SECTION HAVING A DIAMETER OF AT LEAST 95% OF THE SPECIFIED AVERAGE INSIDE DIAMETER OF PIPE.
8. ALL SEWER LINES SHALL BE AIR TESTED AS PER THE STANDARD SPECIFICATIONS FOR DESIGN AND CONSTRUCTION, CENTRAL CONTRA COSTA SANITARY DISTRICT.
9. ALL SEWER LINES SHALL BE BALL FLUSHED AS PER THE STANDARD SPECIFICATIONS FOR DESIGN AND CONSTRUCTION, CENTRAL CONTRA COSTA SANITARY DISTRICT.
10. ALL SEWER LINES 6-INCHES AND LARGER WILL BE TELEVISED BY AN ISD APPROVED COMPANY. THE TELEVISING CONTRACTOR SHALL BE APPROVED BY THE DISTRICT AT LEAST TWO WEEKS IN ADVANCE OF THE WORK. AN ISD INSPECTOR MUST BE PRESENT DURING THE TELEVISING PROCESS.
11. ALL SEWER MANHOLES SHALL BE VACUUM TESTED AS PER THE STANDARD SPECIFICATIONS FOR DESIGN AND CONSTRUCTION, CENTRAL CONTRA COSTA SANITARY DISTRICT.

12. DEVELOPER SHALL FURNISH COMPACTION TEST OF SEWER TRENCH AT 400 FOOT INTERVALS BY A QUALIFIED LAB PER CENTRAL CONTRA COSTA SANITARY DISTRICT SPECIFICATIONS.
13. ALL PLASTIC SANITARY SEWER LINES AND LATERALS SHALL HAVE ROCK MATERIAL BEDDING AND SHADING WITHIN THE RIGHT-OF-WAY IN ACCORDANCE WITH CENTRAL CONTRA COSTA SANITARY DISTRICT STANDARD DRAWINGS.
14. ALL 6-INCH LATERALS MUST BE TIED INTO A MANHOLE. NO DIRECT CONNECTION OF A 6-INCH LATERAL INTO A SEWER MAIN IS ALLOWED.
15. MINIMUM SLOPES FOR LATERALS ARE 4-INCH AT 2% AND 6-INCH AT 1%.
16. ISD SHALL RECEIVE ONE HARDCOPY AND ONE CD OF AS-BUILTS IN AUTOCAD AND PDF FORMAT. ACTUAL LOCATIONS OF HOUSE LATERALS ARE TO BE SHOWN ON "AS-BUILTS" AS ARE ALL DEVIATIONS FROM CONSTRUCTION PRINT.
17. EACH SEWER SERVICE LATERAL SHALL BE MARKED WITH A 2-INCH HIGH "S" INSCRIBED ON THE CURB DIRECTLY ABOVE THE SERVICE. LATERAL TO BE MARKED WITH A 2" X 4' STAKE PAINTED GREEN AND LEFT IN PLACE THROUGH THE FINAL YARD GRADE.
18. MINIMUM VERTICAL CLEARANCE BETWEEN SEWER MAIN AND ALL OTHER UTILITY CROSSINGS SHALL BE ONE (1) FOOT. IF LESS THAN ONE (1) FOOT THEN A SIX (6) INCH CONCRETE CAP SHALL BE PLACED OVER THE SEWER PIPE AS DIRECTED IN THE FIELD BY THE ISD INSPECTOR.
19. CONTRACTORS ARE REQUIRED TO FOLLOW ALL LOCAL, STATE, AND FEDERAL CONSTRUCTION REGULATIONS. BEFORE ENTERING ISD'S CONFINED SPACES CONTRACTORS ARE REQUIRED TO PROVIDE ISD THE FOLLOWING:
 - CONTRACTORS CONFINED SPACE PROGRAM,
 - CONFINED SPACE PERMIT FORM,
 - PERSONNEL TRAINING RECORDS OF CONFINED SPACE SUPERVISOR, ATTENDANT, ENTRANT, AND RESCUE PERSON, AND
 - RESPIRATOR FIT TEST RECORD OF RESCUE PERSON.CONTRACTORS WILL NOT RELY ON LOCAL FIRE DEPARTMENT PERSONNEL TO PROVIDE CONFINED SPACE RESCUES.