

SANITARY SEWER - GENERAL NOTES:

1. ALL SEWER LINES, MANHOLES, SANITARY SEWER SYSTEM PLANS, AND CONSTRUCTION WILL CONFORM TO CURRENT SOUTHGATE SANITATION DISTRICT SPECIFICATIONS, AND ARE SUBJECT TO CONSTRUCTION OBSERVATION BY SOUTHGATE PERSONNEL OR REPRESENTATIVES. A COPY OF SOUTHGATE'S SPECIFICATIONS ARE AVAILABLE AT WWW.SOUTHGATEDISTRICTS.ORG.
2. ONLY AFTER CONSTRUCTION PLANS HAVE BEEN REVIEWED AND APPROVED BY SOUTHGATE, THE OWNER, THE OWNER'S ENGINEER OR CONTRACTOR, WILL SCHEDULE A PRE-CONSTRUCTION MEETING WITH SOUTHGATE AT LEAST 2 BUSINESS DAYS PRIOR TO THE STARTING CONSTRUCTION. APPROVED CONSTRUCTION PLANS, SIGNED BY THE DISTRICT ENGINEER, WILL BE DISTRIBUTED AT THE PRE-CONSTRUCTION MEETING.
3. CONSTRUCTION WILL NOT BE PERMITTED TO START UNTIL ALL EASEMENTS ARE SIGNED AND RECORDED AND THE PRE-CONSTRUCTION MEETING HAS BEEN HELD.
4. ALL PERMITS AND FEES MUST BE PAID PRIOR TO CONSTRUCTION. THE CONTRACTOR IS RESPONSIBLE FOR THE PROCUREMENT OF ALL PERMITS FOR THE CONSTRUCTION OF MAINS AND SERVICES.
5. SOUTHGATE REQUIRES 2 BUSINESS DAYS NOTICE PRIOR TO START OF CONSTRUCTION AND NOTIFICATION OF A BREAK IN CONSTRUCTION (DUE TO WEATHER, SCHEDULING, ETC.) AND WHEN CONSTRUCTION WILL RESUME.
6. SOUTHGATE REQUIRES 2 BUSINESS DAYS NOTICE PRIOR TO ANY OVERTIME WORKED ON A WEEKDAY. COSTS INCURRED BY SOUTHGATE ASSOCIATED WITH CONSTRUCTION OVERTIME WILL BE THE RESPONSIBILITY OF THE CONTRACTOR.
7. A MINIMUM OF ONE COPY EACH OF ALL SURVEY CUT SHEETS MUST BE GIVEN TO SOUTHGATE AND TO THE CONTRACTOR PRIOR TO THE START OF CONSTRUCTION.
8. THE CONTRACTOR SHALL CONTACT ALL APPROPRIATE UTILITY COMPANIES FOR NOTIFICATION AND LOCATES PRIOR TO CONSTRUCTION COMMENCING. THE CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGES AND COSTS THAT RESULT BY THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UTILITIES, INCLUDING SOUTHGATE UTILITIES.
9. SOUTHGATE OR ITS REPRESENTATIVE IS NOT A GUARANTOR OF THE CONSTRUCTION CONTRACTORS' OBLIGATIONS AND PERFORMANCE OF CONTRACT.
10. OBSERVATIONS OF WORK IN PROGRESS AND ON-SITE VISITS ARE NOT TO BE CONSTRUED AS A GUARANTEE BY SOUTHGATE OR ITS REPRESENTATIVE OF THE CONTRACTORS' PERFORMANCE.
11. SOUTHGATE AND/OR ITS REPRESENTATIVE IS NOT RESPONSIBLE FOR SAFETY IN, ON, OR ABOUT THE PROJECT SITE, NOR FOR COMPLIANCE BY THE APPROPRIATE PARTY OF ANY REGULATIONS RELATING THERETO.
12. SOUTHGATE AND/OR ITS REPRESENTATIVE EXERCISES NO CONTROL OF THE SAFETY OR ADEQUACY OF ANY EQUIPMENT, BUILDING COMPONENTS, SCAFFOLDING, FORMS, OR ANY OTHER WORK AIDS USED IN OR ABOUT THE PROJECT, OR IN THE SUPERINTENDING OF THE SAME.
13. SOUTHGATE REQUIRES 2 BUSINESS DAYS NOTICE PRIOR TO ANY WEEKEND OR NIGHT WORK. COSTS INCURRED BY SOUTHGATE ASSOCIATED WITH WEEKEND AND NIGHT WORK WILL BE THE RESPONSIBILITY OF THE CONTRACTOR.
14. A SET OF APPROVED PLANS SHALL BE MAINTAINED BY THE CONTRACTOR AND KEPT ON SITE AT ALL TIMES. THESE PLANS SHALL BE USED TO MAKE THE "AS-CONSTRUCTED" NOTES DURING THE COURSE OF THE CONSTRUCTION. THESE NOTES SHALL INCLUDE, BUT ARE NOT LIMITED TO, ANY DEVIATIONS FROM THE APPROVED PLANS, NOTING THE TYPES AND LOCATIONS OF THE MATERIALS IN PLACE.
15. ALL REQUIRED TESTING EQUIPMENT WILL BE SUPPLIED BY THE CONTRACTOR, INCLUDING, BUT NOT LIMITED TO, AIR MONITORING AND VENTILATION EQUIPMENT. THE CONTRACTOR MUST SUPPLY ANY ADDITIONAL EQUIPMENT REQUIRED BY OSHA FOR MANHOLE ENTRY, DURING TESTING. SOUTHGATE REQUIRES 2 BUSINESS DAYS NOTICE PRIOR TO TESTING FOR SCHEDULING PURPOSES.
16. THE CONTRACTOR WILL SCHEDULE COMPACTION TESTING WITH THE SOILS CONSULTANT. SEVERAL COMPACTION TESTS ARE REQUIRED AT INTERSECTIONS WITH OTHER UTILITIES, AT MANHOLES, SERVICE STUBS, AND AT RANDOM LOCATIONS OVER THE SEWER LINE. TESTING WILL BE REQUIRED WHEN SOILS MATERIAL CHANGES. TESTING WILL BE REQUIRED FOR EVERY THIRD SERVICE INSTALLATION. THE SOILS ENGINEER IS REQUIRED TO SUBMIT COMPACTION TEST RESULTS ON A DAILY BASIS.
17. ALL SEWER LINES WILL BE FLUSHED AND CLEANED PRIOR TO ANY VIDEOING ON THE PROJECT. THE WATER USED IN THE FLUSHING AND CLEANING OPERATION SHALL BE PUMPED OUT OF THE SYSTEM. WATER WILL NOT BE DISCHARGED INTO ADJOINING SYSTEM. THE PLUG AT THE DISCHARGE END OF THE PROJECT MUST REMAIN IN PLACE UNTIL THE SYSTEM HAS BEEN ACCEPTED AND NOTICE HAS BEEN GIVEN BY SOUTHGATE FOR THE SYSTEM TO BE PLACED INTO SERVICE.
18. ALL SEWER LINES MUST BE JETTED PRIOR TO THE START OF THE WARRANTY PERIOD AND MAY BE REQUIRED AGAIN PRIOR TO RELEASE OF WARRANTY BY SOUTHGATE. COSTS OF JETTING WILL BE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR WILL BE RESPONSIBLE FOR ALL PUMPING ASSOCIATED WITH THE LINE JETTING.
19. CONSTRUCTION WATER IS AVAILABLE BY PURCHASING A PERMIT FROM SOUTHGATE WATER DISTRICT AND DENVER WATER. CURRENT DENVER WATER CERTIFICATION IS REQUIRED ON ALL WATER METERS. SOUTHGATE WATER DISTRICT DOES NOT SUPPLY WATER METERS.
20. PIPELINE ACCEPTANCE AND THE START OF THE WARRANTY PERIOD OF THE NEW SEWER MAINS WILL NOT BE CONSIDERED UNTIL ALL REQUIREMENTS FOR ACCEPTANCE HAVE BEEN FULFILLED, INCLUDING:
 - a. ALL TESTING IS COMPLETE WITH SATISFACTORY RESULTS.
 - b. COMPLETE SET OF SIGNED COMPACTION TEST RESULTS IS SUBMITTED TO SOUTHGATE
 - c. ALL SEWER CUT SHEETS ARE SUBMITTED TO SOUTHGATE.
 - d. ALL PUNCH LIST ITEMS ARE COMPLETED TO THE SATISFACTORY OF SOUTHGATE.
 - e. FIRST LIFT OF PAVING IS COMPLETED, AT A MINIMUM.
 - f. SURVEYED RECORD DRAWINGS HAVE BEEN SUBMITTED TO AND APPROVED BY SOUTHGATE. REQUIREMENTS FOR RECORD DRAWINGS CAN BE FOUND AT WWW.SOUTHGATEDISTRICTS.ORG.
 - g. RECORDED ADDRESS PLAT, IF APPLICABLE, IS SUBMITTED TO SOUTHGATE.
 - h. WARRANTY FUNDS ARE SUBMITTED TO SOUTHGATE IN THE FORM OF A LETTER OF CREDIT OR CHECK EQUAL TO TEN PERCENT (10%) OF THE TOTAL COST OF SEWER IMPROVEMENTS. THE LETTER OR CHECK MUST BE EFFECTIVE FOR A MINIMUM OF FIFTEEN (15) MONTHS FROM START OF WARRANTY PERIOD.
21. THE NEW SEWER SYSTEM WILL BE TESTED IN ACCORDANCE WITH SOUTHGATE'S SPECIFICATIONS. ALL REQUIRED TESTING MUST BE COMPLETED PRIOR TO THE START OF WARRANTY PERIOD:
 - a. VIDEO 100% OF NEW SYSTEM.
 - b. LOW PRESSURE AIR TEST 100% OF NEW SYSTEM.
 - c. DEFLECTION TEST 100% OF NEW SYSTEM
22. RELEASE OF SECURITY AND WARRANTY OF FACILITIES IS DEPENDENT UPON SUCCESSFUL COMPLETION OF A MINIMUM OF ONE (1) YEAR WARRANTY PERIOD AND CONVEYANCE OF DOCUMENTS.
23. THE OWNER IS RESPONSIBLE FOR MAINTENANCE OF THE SYSTEM FROM PIPE ACCEPTANCE TO RELEASE OF SECURITY AND WARRANTY. FAILURE TO MAINTAIN SEWER LINES BY THE TERMS OF THE IMPROVEMENTS AGREEMENT MAY BE CONSIDERED GROUNDS FOR PERMANENT ABANDONMENT OF FACILITIES.
24. SEWER SERVICE TAPS WILL NOT BE SOLD UNTIL PROJECT ACCEPTANCE IS ACHIEVED.
25. MANHOLE RIMS WILL BE SET AT AN ELEVATION RELATIVE TO THE PAVEMENT, IN ACCORDANCE WITH THE APPROPRIATE CITY, COUNTY, OR STATE HIGHWAY DEPARTMENT STANDARDS. REGARDLESS IF THE MANHOLE IS IN A PAVED OR UNPAVED AREA, A MINIMUM OF FOUR INCHES (4") OF CONCRETE RISER RINGS SHALL BE INSTALLED TO ADJUST RIM ELEVATIONS TO FINAL GRADE. THE MAXIMUM ACCEPTABLE VERTICAL ADJUSTMENT UTILIZING RISER RINGS IS TWELVE INCHES (12"). NOTE: CONCRETE ADJUSTMENT SECTIONS ARE ALSO APPROVED FOR USE IN VERTICAL ADJUSTMENTS OF RING AND COVER. A MINIMUM OF 1 RISER SECTION WILL BE REQUIRED FOR VERTICAL ADJUSTMENT.
26. EXISTING PIPE AT THE POINT OF CONNECTION WILL NOT BE "BROKEN OUT" AND NO SERVICE CONNECTIONS WILL BE MADE UNTIL THE NEW SYSTEM IS ACCEPTED BY SOUTHGATE.
27. THE CONTRACTOR SHALL VERIFY INVERT ELEVATIONS OF EXISTING LINES BY MEANS OF CERTIFIED SURVEY PRIOR TO THE INSTALLATION OF BARREL AND CONE SECTION.
28. THE CONTRACTOR WILL VERIFY EXISTING MANHOLE INVERTS AT PROPOSED POINTS OF CONNECTION, PRIOR TO CONSTRUCTION STAKING.
29. THE ALIGNMENT SHALL BE STAKED EVERY 25 FEET FOR THE FIRST 100 FEET OUT OF EACH MANHOLE AND EVERY 50 FEET THEREAFTER, ALONG WITH BOTH SIDES OF THE EASEMENT. (FOR USE WITH LASER EQUIPMENT ONLY)
30. TRENCH COMPACTION IN STREET RIGHT-OF-WAY IS TO CONFORM TO APPLICABLE MUNICIPAL STANDARDS (COLORADO DEPARTMENT OF TRANSPORTATION, ARAPAHOE COUNTY, DOUGLAS COUNTY, CITY OF GREENWOOD VILLAGE, CITY OF CENTENNIAL, OR THE CITY OF LONE TREE.)
31. CONNECTION TIES INTO AN EXISTING SEWER LINE SHALL BE PLUGGED WITH A PLUMBERS PLUG IN THE UPSTREAM PIPE AND TIED OFF TO A STEP INSIDE THE MANHOLE. THIS PLUG SHALL REMAIN IN PLACE UNTIL THE NEW SYSTEM IS ACCEPTED. SOUTHGATE WILL ISSUE NOTICE FOR SERVICE CONNECTIONS AND REMOVAL OF PLUG.
32. ALL PRIVATE SERVICE LINES MUST BE INSPECTED BEFORE BACKFILL - CALL SOUTHGATE AT 303-779-0261 TO SCHEDULE YOUR INSPECTION.
33. ALL GREASE AND SAND/OIL INTERCEPTORS MUST BE INSPECTED BEFORE BACKFILL - CALL SOUTHGATE AT 303-779-0261 TO SCHEDULE YOUR INSPECTION.

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REVISED		 Southgate WATER & SANITATION DISTRICTS	SCALE
BY	DATE		NOT TO SCALE
		SOUTHGATE SANITATION DISTRICT GENERAL NOTES	ISSUE DATE
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