

## WATER

### **GENERAL NOTES:**

1. MATERIAL AND INSTALLATION SHALL CONFORM TO THE CITY OF REDLANDS MUNICIPAL WATER DIVISION STANDARD SPECIFICATION (LATEST REVISION THEREOF).
2. THE APPROXIMATE LOCATIONS OF EXISTING UNDERGROUND UTILITY LINES ARE SHOWN IN THESE PLANS. THE LINES ARE PLOTTED FROM A COMBINATION OF RECORD AND FIELD DATA, AND THE CITY HAS TRIED WITHIN ITS AVAILABLE RESOURCES TO LOCATE ALL SUCH FACILITIES WITH REASONABLE ACCURACY. BY ENTERING INTO A CONTRACT FOR THIS WORK, THE CONTRACTOR AGREES PRIOR TO EXCAVATION TO NOTIFY ALL UTILITY AND IRRIGATION COMPANIES OPERATING IN THE AREA OF THE WORK, AND TO DETERMINE WITH AS MUCH ACCURACY AS IS NEEDED TO PERFORM THIS WORK, THE EXACT LOCATIONS OF ALL UNDERGROUND MAIN OR TRUNKLINE UTILITY FACILITIES.
3. ALL SERVICE CONNECTIONS TO BE MINIMUM 1-INCH COPPER LATERALS.
4. STANDARD WATER MAIN LOCATION IS 7 FEET OFF CURB FACE.
5. THIS DRAWING IS SCHEMATIC ONLY, DO NOT SCALE.
6. THE CONTRACTOR SHALL MAKE ALL WATER MAIN CONNECTIONS TO EXISTING WATER MAINS, UNLESS OTHERWISE NOTED.
7. EXISTING UTILITIES ARE SHOWN ON DEVELOPMENT PLAN.
8. HYDRO TEST TO XXX P.S.I. MIN 2 HOUR DURATION AT THE LOWEST POINT IN THE WATER MAIN.
9. BUTTERFLY VALVES TO BE DRESSER 450 OR KENNEDY ADAP-TORQ, CLOW STYLE #2810.
10. CONTRACTOR SHALL USE DOUBLE STRAP SERVICE CLAMPS OR H.D. TAPPED COUPLINGS WHEN CONNECTING SERVICE LATERALS.
11. CONTRACTOR SHALL NOTIFY CITY 48 HOURS PRIOR TO SHUTDOWN OF WATER MAINS.
12. INSTALLATION SHALL CONFORM TO MANUFACTURERS SPECIFICATIONS AND LATEST CITY SPECIFICATIONS AND/OR AS DIRECTED BY THE ENGINEER.
13. METER BOXES IN THE SIDEWALK SHALL HAVE CAST IRON LIDS.

14. PROVIDE A MINIMUM OF 10 FOOT SEPARATION BETWEEN SEWER AND WATER LATERALS WHERE POSSIBLE.
15. BACKFILL COMPACTION AND RE-SURFACING IN EXISTING STREETS SHALL CONFORM TO STREET DIVISION SPECIFICATIONS (LATEST REVISION THEREOF).
16. ALL VALVES INSTALLED BY THE CONTRACTOR SHALL BE ACCESSIBLE FOR OPERATION WITH COMPLETE VALVE BOX TO GRADE DIRECTLY FOLLOWING CONNECTION TO EXISTING WATER SYSTEM.
17. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ADEQUATE SIZING OF THRUST BLOCKS BASED ON FIELD CONDITIONS. THE SIZE SHOWN ON THE PLANS IS THE MINIMUM SIZE REQUIRED.
18. SAND BEDDING AND BACKFILL TO A DEPTH OF 12" ABOVE PIPE IS REQUIRED.
19. IF WATER MAINS ARE ABANDONED AS A RESULT OF THIS PROJECT THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL RECONNECTION OR REPLACEMENT OF SERVICE LATERALS AS DIRECTED BY THE CITY INSPECTOR. SERVICE LATERALS THAT ARE REPLACED SHALL BE THE SAME SIZE AS EXISTING.
20. INTERIOR WATER SYSTEM INCLUDING FIRE HYDRANTS SHALL BE COMPLETE AND ACCEPTED BY THE CITY BEFORE ANY FRAMING PERMITS WILL BE ISSUED. CONTACT CITY FIRE MARSHALL FOR INTERIOR SYSTEM INSPECTIONS.
21. CONTACT THE MUNICIPAL WATER DIVISION 48 HOURS PRIOR TO ANY WATER SYSTEM CONSTRUCTION.
22. WHERE DESIGNATED ON THE PLANS, THE CONTRACTOR SHALL INSTALL POLY PIGS AND POLY PIG OUTLETS. THE CONTRACTOR SHALL NOTIFY THE CITY 48 HOURS IN ADVANCE TO REQUEST THE CITY TO FLUSH POLY PIGS THROUGH THE MAINS. THE FLUSHING PROCESS SHALL TAKE PLACE PRIOR TO HYDROSTATIC TESTING CHLORINATION AND FINAL FLUSHING OF THE MAIN BY THE CONTRACTOR. FINAL CONNECTIONS SHALL NOT BE MADE PRIOR TO BACTERIA TEST SAMPLES THAT MEET CITY REQUIREMENTS AND AUTHORIZATION FOR TIE-INS BY THE CITY INSPECTOR.
23. COMPLETE A SET OF AS BUILT DRAWINGS SHALL BE SUBMITTED TO THE MUNICIPAL UTILITIES DEPARTMENT PRIOR TO FINAL INSPECTION.
24. THE CONTRACTOR SHALL NOT OPERATE ANY EXISTING CITY WATER SYSTEM VALVES.
25. WATER VALVE CANS SHALL BE PER SPEC A-20514 (SLIP CAN TYPE).