

**APPENDIX 2.2.B  
WATER AGENCIES' NOTES AND FORMAT**

On Grading Plans where existing pipelines or facilities may be affected include the following note:

Existing water, sewer, and/or recycled water facilities in the area affected by grading shall be kept in service at all times. In some instances it may be necessary to high line facilities in accordance with WAS Standard Specification 15000 to keep facilities in service. Absolutely no cutting or filling will be allowed over existing facilities until facilities have been either relocated into the street and tested or high lined and tested.

Water and Sewer Agencies' notes shall include the following:

**STANDARD NOTES: (Include on all improvement plans)**

1. CONSTRUCTION OF WATER, SEWER, AND/OR RECYCLED WATER SHALL BE DONE IN ACCORDANCE WITH THE WATER AGENCIES' STANDARDS (WAS) DRAWINGS, SPECIFICATIONS, AND APPROVED MATERIALS LIST. ALL CONTRACTORS AND SUBCONTRACTORS WORKING ON WATER, SEWER, AND/OR RECYCLED WATER SHALL HAVE A CURRENT COPY OF THE WAS ON THE CONSTRUCTION SITE. WORK IS NOT CONSIDERED TO BE ACCEPTED UNTIL WRITTEN APPROVAL IS PROVIDED FROM THE AGENCY.
2. STANDARD SPECIFICATIONS AND DRAWINGS OF THE WATER AGENCY STANDARDS FOR WATER AND SEWER MAIN CONSTRUCTION ARE AVAILABLE AT: [HTTP://WWW.SDWAS.COM](http://www.sdwas.com).
3. APPROVAL OF THESE PLANS BY THE AGENCY IS VALID FOR A PERIOD OF TWO YEARS FROM THE DATE WHICH THE AGENCY SIGNS THE PLANS. AFTER TWO YEARS, RESUBMITTAL IS REQUIRED.
4. APPLICATION FOR WATER AND/OR SEWER SERVICE WILL NOT BE PROCESSED UNTIL A NOTICE OF COMPLETION HAS BEEN FILED WITH THE COUNTY RECORDER'S OFFICE AND AN OFFER OF DEDICATION IS ACCEPTED BY THE AGENCY.
5. ADDITIONAL FACILITIES AND CONSTRUCTION THAT IS DETERMINED NECESSARY IN THE COURSE OF CONSTRUCTION SHALL BE PROVIDED BY THE DEVELOPER AT ITS OWN EXPENSE.
6. THE CONTRACTOR SHALL CONFORM TO LABOR CODE SECTION 6205 BY SUBMITTING A DETAILED PLAN SHOWING THE DESIGN OF SHORING, BRACING, SLOPING OR OTHER PROVISIONS TO BE MADE FOR WORK PROTECTION FROM THE HAZARD OF CAVING GROUND DURING THE EXCAVATION OF SUCH TRENCH OR TRENCHES OR DURING THE PIPE INSTALLATION THEREIN. THIS PLAN MUST BE PREPARED FOR ALL TRENCHES FIVE FEET OR MORE IN DEPTH AND APPROVED BY THE OWNER PRIOR TO EXCAVATION. IF THE PLAN VARIES FROM THE SHORING SYSTEM STANDARDS ESTABLISHED BY THE CONSTRUCTION SAFETY ORDERS, THE PLAN SHALL BE PREPARED BY A REGISTERED CIVIL ENGINEER OR STRUCTURAL ENGINEER AT THE CONTRACTOR'S EXPENSE.
7. CONTRACTOR TO PROVIDE CONSTRUCTION STAKING AND THREE (3) SETS OF CUT SHEETS TO THE INSPECTOR 24 HOURS PRIOR TO EXCAVATING.
8. NO FIELD CHANGES OR REVISIONS SHALL BE MADE TO THESE PLANS WITHOUT THE WRITTEN APPROVAL OF THE AGENCY ENGINEER AND ENGINEER OF WORK.
9. APPROVAL OF THIS PLAN BY AGENCY DOES NOT CONSTITUTE A REPRESENTATION AS TO THE ACCURACY OF THE LOCATION OF, OR THE EXISTENCE OR NONEXISTENCE OF ANY UNDERGROUND WATER, SEWER, OR UTILITY PIPE OR STRUCTURE WITHIN THE LIMITS OF THIS PROJECT.
10. THE CONTRACTOR SHALL LOCATE ALL EXISTING UNDERGROUND UTILITIES AND POT HOLE ALL TIE-IN AND POTENTIAL CONFLICT LOCATIONS PRIOR TO PIPE INSTALLATION IN ACCORDANCE WITH WAS SPECIFICATIONS 01000 AND 15000. ANY DISCREPANCIES IN PIPE MATERIAL, SIZE, OR LOCATION SHALL BE BROUGHT TO THE ATTENTION OF THE AGENCY'S ENGINEERING DEPARTMENT PRIOR TO PROCEEDING. POT HOLE ALL SHALL BE COMPLETED BEFORE THE AGENCY WILL SCHEDULE A SHUTDOWN.

11. CONTRACTOR TO MEET INSPECTOR BEFORE STARTING WORK AND PROVIDE A MINIMUM OF 72 HOUR NOTICE.
12. THE AGENCY SHALL RECEIVE A CONSTRUCTION SCHEDULE FROM THE CONTRACTOR PRIOR TO START OF CONSTRUCTION IN ACCORDANCE WITH WAS STANDARD SPECIFICATION 01000. WORK DONE WITHOUT AGENCY INSPECTION SHALL BE SUBJECT TO REMOVAL.
13. CONSTRUCTION OF PUBLIC IMPROVEMENTS SHALL NOT START UNTIL THE AGENCY AND THE DEVELOPER HAVE EXECUTED THE CONSTRUCTION AND/OR DEDICATION AGREEMENT AND A PRE-CONSTRUCTION MEETING HAS BEEN HELD IN ACCORDANCE WITH WAS STANDARD SPECIFICATION 01000
14. CONTRACTOR SHALL KEEP A SET OF REDLINE AS-BUILTS ON THE SITE AT ALL TIMES PER WAS STANDARD SPECIFICATION 01000 AND UPDATE DAILY. FAILURE TO MAINTAIN FIELD AS-BUILTS ARE GROUNDS FOR JOB SHUTDOWN OR NO INSPECTIONS BY THE DISTRICT UNTIL AS-BUILTS ARE CURRENT.
15. CONTRACTOR SHALL SUBMIT THE REDLINE AS-BUILTS TO THE ENGINEER OF WORK ONCE THE PROJECT HAS BEEN COMPLETED.
16. ENGINEER OF WORK TO PROVIDE AS-BUILT PLANS (MYLAR AND ELECTRONIC) TO THE AGENCY UPON COMPLETION OF THE PROJECT.
17. CONTRACTOR TO NOTIFY UNDERGROUND SERVICE ALERT AT 811. CALL A MINIMUM OF TWO WORKING DAYS PRIOR TO EXCAVATION.
18. CONTRACTOR IS TO OBTAIN ALL PERMITS.
19. CONTRACTOR IS TO PROVIDE AND INSTALL ALL MATERIAL, WHICH SHALL BE NEW.
20. THE CONTRACTOR SHALL AND HEREBY DOES GUARANTEE ALL WORK TO BE FREE OF DEFECTS IN WORKMANSHIP AND/OR MATERIALS FOR A PERIOD OF ONE YEAR AFTER THE DATE OF NOTICE OF COMPLETION FILED BY THE AGENCY AND SHALL REPAIR OR REPLACE ANY OR ALL SUCH WORK, TOGETHER WITH ANY OTHER WORK WHICH MAY BE IMPACTED AT NO COST TO THE AGENCY.
21. JOB MIXING OF CONCRETE WILL NOT BE ALLOWED WITHOUT THE PRIOR PERMISSION OF THE AGENCY.
22. ALL CONCRETE TESTING REQUIRED BY THE AGENCY WILL BE AT THE EXPENSE OF THE CONTRACTOR.
23. SOILS REPORTS SHALL BE SUBMITTED TO THE ENGINEER OF WORK AND THE AGENCY BY A QUALIFIED SOILS ENGINEER WHICH CERTIFIES THAT TRENCH BACK FILL WAS COMPACTED IN ACCORDANCE WITH AGENCY SPECIFICATIONS OR ONSITE EARTHWORK SPECIFICATIONS, WHICHEVER IS MORE RESTRICTIVE.
24. PROJECT WILL NOT BE ACCEPTED UNTIL ROAD IS RESTORED TO ITS ORIGINAL CONDITION OR BETTER, OR TO THE CONDITION SPECIFIED BY THE COUNTY OR STATE.
25. RELATIVE COMPACTION AROUND FACILITIES SHALL CONFORM TO STANDARD SPECIFICATION SECTION 02223.
26. WARNING/IDENTIFICATION TAPE BURIED 12" ABOVE TOP OF PIPE AS SHOWN IN STANDARD DRAWING WP-02 & SP-01.
27. ALL PIPE SHALL HAVE A MINIMUM 6-INCH BEDDING THICKNESS AS SHOWN ON STANDARD DRAWING WP-02 AND SP-03. PIPE ZONE MATERIAL SHALL CONFORM TO THE GRADATION IDENTIFIED IN STANDARD SPECIFICATION SECTION 02223.
28. CONTRACTOR TO HAVE ALL FITTINGS AND PIPE MATERIALS INSPECTED PRIOR TO START OF CONSTRUCTION.
29. PLACEMENT OF A WATER AND/OR SEWER SERVICE LATERAL ON THE PLANS DOES NOT ENSURE THAT WATER OR SEWER SERVICE WILL BE APPROVED OR PROVIDED BY THE AGENCY.
30. NO PERSON, OTHER THAN AN EMPLOYEE OR AGENT OF THE AGENCY, SHALL HAVE A RIGHT TO OPERATE ANY PART OF AN AGENCY'S DISTRIBUTION SYSTEM PER WAS STANDARD SPECIFICATION 01000. ANY PERSON WHO TAMPERS OR INTERFERES WITH ANY PART OR COMPONENT OF SAID SYSTEM, OR CAUSES OR PERMITS ANY ACT OF TAMPERING OR INTERFERING WITH THE SYSTEM, SHALL BE LIABLE FOR ANY INJURY OR DAMAGE CAUSED THEREBY OR RESULTING THERE FROM. A CHARGE PER OCCURRENCE WILL BE IMPOSED ON ANY PERSON OR COMPANY WHO OPERATES ANY PART OF THE AGENCY WATER SYSTEM WITHOUT PROPER AUTHORIZATION.
31. CONTRACTOR SHALL POSSESS A CLASS 'A' CONTRACTORS LICENSE FOR WORK ON WATER AND SEWER PIPELINE INSTALLATIONS IN CONFORMANCE WITH THE CALIFORNIA CONTRACTOR'S LICENSE LAW AND W.A.S. SPECIFICATION SECTION 01000 SUBSECTION 1.02.

32. ALL UNDERGROUND UTILITIES AND LATERALS SHALL BE INSTALLED BEFORE CONSTRUCTION OF CURBS, CONCRETE CROSS GUTTERS, OR SURFACING OF STREETS.
33. THE CONTRACTOR SHALL BE FINANCIALLY RESPONSIBLE FOR RELOCATION OR ADJUSTMENT OF ANY NEW OR EXISTING WATER SERVICE APPURTENANCES, MANHOLES, GATE VALVE COVERS, OR METER BOXES TO NEW FINISH GRADE BY AGENCY FORCES.
34. DEVELOPER SHALL PAY A CHARGE PER OCCURRENCE PER AGENCY'S RULES AND REGULATIONS IF THEY, THEIR EMPLOYEES, AGENTS, OR ANY INDEPENDENT CONTRACTORS OR SUBCONTRACTORS USE WATER OTHER THAN THROUGH AN AUTHORIZED WATER METER OR CONSTRUCTION METER. DEVELOPER SHALL PAY A CHARGE PER OCCURRENCE FOR SAID USE. SAID PAYMENT MAY BE DEDUCTED FROM ANY DEPOSIT DEVELOPER HAS WITH AGENCY.
35. UNLESS SHOWN ON THESE PLANS, PRIVATE WATER LINES, SEWER LINES, AND OTHER PRIVATE UTILITIES (PROPOSED OR EXISTING) SHALL NOT RUN PARALLEL WITHIN THE AGENCY'S EASEMENT. PERPENDICULAR CROSSINGS OF THE PRIVATE UTILITY SHALL BE PLACED IN A CASING AND SHALL BE SHOWN ON RECORD DRAWINGS. THE CASING SHALL BE CENTERED ON THE PUBLIC UTILITY, 5' ON BOTH SIDE, AND ENCASED CONCRETE (RED COLORED CONCRETE FOR ELECTRICAL CONDUITS) THE FULL LENGTH OF THE CASING. CONTRACTOR SHALL MAINTAIN A MINIMUM 12-INCH VERTICAL SEPARATION BETWEEN THE WATER MAIN AND ALL OTHER UTILITIES AT THE CROSSINGS. IN ADDITION, PRIVATE UTILITIES INSTALLED AFTER THE WATER FACILITIES THAT CROSS OR OTHERWISE DISTURB THE WATER FACILITY'S TRENCH LINE INCLUDING WATER MAINS, SERVICES AND APPURTENANCES, SHALL BE BACKFILLED WITH THE MATERIAL AS APPROVED PER WAS.
36. FOR WORK OVER EXISTING FACILITIES, HEAVY EQUIPMENT (ABOVE H20 LOADING) SHALL NOT BE USED WHEN COVER OVER THE WATER MAIN IS LESS THAN 36 INCHES THROUGH ALL PHASES OF CONSTRUCTION, INCLUDING THE REMOVAL, OVER EXCAVATION, AND/OR INSTALLATION OF PAVEMENT SECTIONS, WITHOUT THE WRITTEN APPROVAL OF AGENCY.
37. FINAL STREET SUB-GRADE SHALL BE ESTABLISHED PRIOR TO THE EXCAVATION OF PIPELINE TRENCHES, AND MINIMUM COVER OVER ABOVE PIPE SHALL BE 24-INCHES FOR HYDROTESTING PER WAS SECTION 02223.

**WATER AND RECYCLED WATER NOTES: (Include on water and recycled water improvement plans)**

1. CONTRACTOR SHALL DISINFECT THE PIPELINE ACCORDING TO SECTION 15041 OF SPECIFICATIONS.
2. CONTRACTOR TO SET MARKER AND PROTECTIVE POSTS ACCORDING TO SECTION 09910 OF THE SPECIFICATIONS.
3. CONTRACTOR TO PROVIDE THE AGENCY A 5 DAY ADVANCED NOTICE TO SCHEDULE SHUT-DOWN. THE DATE IS TO BE DETERMINED BY THE AGENCY.
4. DUCTILE IRON FITTINGS SHALL BE IN ACCORDANCE WITH SECTION 15056 OF THE SPECIFICATIONS.
5. AGENCY WILL BE RESPONSIBLE TO MAKE SERVICE LATERAL AND PIPELINE WET TAPS AND CUT IN TEES AND CROSSES TO "LIVE" SYSTEMS IN ACCORDANCE WITH WAS STANDARD SPECIFICATION 15000. WET TAPS SHALL NOT BE DONE ON MONDAY OR FRIDAY.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL PHASES OF WORK NOT PERFORMED BY AGENCY; PROVIDE ALL THE MATERIALS, HAND AND MACHINE EXCAVATION, REMOVAL OF END CAPS AND THRUST BLOCKS, INSTALL THRUST/ANCHOR BLOCKS, MAKE CONNECTION TO EXISTING STUBS OR NEW PIPELINE, INSTALL GATE WELL CASING, PAINT AND WRAP FITTINGS, BACKFILL AND COMPACT TRENCH AREA, MAKE NECESSARY PAVING REPAIRS, AND ALL OTHER WORK TO COMPLETE INSTALLATION.
7. ALL PIPE TO BE CL-305 PVC (C-900) IN ACCORDANCE WITH SECTION 15064 OF THE SPECIFICATIONS UNLESS APPROVED BY AGENCY.
8. ALL WATER METER SERVICES SHALL BE MINIMUM 1-INCH COPPER.

9. CONTRACTOR TO USE OSHA YELLOW FOR ALL FACILITIES NEEDING YELLOW PAINT IN ACCORDANCE WITH SECTION 09910 OF THE SPECIFICATIONS.
10. CONTRACTOR TO USE OSHA PURPLE FOR ALL FACILITIES NEEDING PURPLE PAINT IN ACCORDANCE WITH SECTION 09910 OF THE SPECIFICATIONS.
11. CONTRACTOR IS RESPONSIBLE FOR PROPER HANDLING AND STORAGE OF ASBESTOS-CEMENT PIPE (ACP) IN CONFORMANCE WITH SPECIFICATION SECTION 15000 SUBSECTION 3.15.
12. INSTALL INSULATED TRACER WIRE PER SECTION 15000 OF THE SPECIFICATIONS AND WP-01 OF THE STANDARD DRAWINGS.
13. THRUST BLOCKS HAVE BEEN SIZED WITH AN ASSUMED SOIL CONDITION OF \_\_\_\_\_ (ENGINEER TO ENTER SOIL TYPE AND ALLOWABLE BEARING PRESSURE). IF CONTRACTOR SHOULD ENCOUNTER SOIL CONDITIONS OTHER THAN THAT ASSUMED, THEN THE AGENCY INSPECTOR AND DESIGN ENGINEER SHALL BE NOTIFIED IMMEDIATELY. THRUST BLOCKS SHALL NOT BE INSTALLED UNTIL A NEW THRUST BLOCK SIZE HAS BEEN DETERMINED BY THE ENGINEER OF WORK AND APPROVED BY AGENCY ENGINEERING STAFF.
14. THRUST BLOCKS SHALL HAVE A CURE TIME IN ACCORDANCE WITH SPECIFICATION SECTION 03000 3.12. A CYLINDER TEST SHALL BE COMPLETED FOR EACH BATCH OF CONCRETE DELIVERED TO THE SITE AND TESTED AFTER THE MINIMUM CURE TIME. IF CONCRETE CYLINDER FAILS TO MEET COMPRESSIVE STRENGTH, ALL THRUST/ANCHOR BLOCKS POURED FROM THE BATCH SHALL BE REMOVED AND REPLACED. CONCRETE ACCELERATORS MAY BE USED IN CONFORMANCE WITH ASTM C-494. CALCIUM CHLORIDE MAY NOT BE USED UNDER ANY CIRCUMSTANCE.
15. SACRIFICIAL ANODES SHALL BE INSTALLED ON ALL COPPER TUBING PER WAS STD DWG WC-17 AND SPECIFICATION SECTION 13110. WHERE APPURTENANCES CANNOT BE INSTALLED PERPENDICULAR TO THE MAIN, TRACER WIRE SHALL BE INSTALLED FROM THE MAIN TO THE METER BOX, AS DIRECTED BY DISTRICT INSPECTOR.
16. A REDUCED PRESSURE PRINCIPLE BACKFLOW PREVENTION DEVICE SHALL BE INSTALLED ON ALL WATER SERVICE LATERALS IN ACCORDANCE WITH THE APPROVED MATERIALS LIST AND WR-01 OR WR-02 OF THE STANDARD DRAWINGS. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL CONTACT THE AGENCY BACKFLOW/CROSS CONNECTION SPECIALIST FOR ADDITIONAL INFORMATION.
17. COMMERCIAL/INDUSTRIAL PROPERTIES WITH MORE THAN 5,000 SQUARE FEET OF IRRIGATED LANDSCAPE MUST HAVE A SEPARATE WATER METER FOR LANDSCAPE PURPOSES. THIS POLICY DOES NOT APPLY TO SINGLE-FAMILY RESIDENTIAL CONNECTIONS OR CONNECTIONS USED TO SUPPLY WATER FOR COMMERCIAL PRODUCTION OF AGRICULTURAL CROPS OR LIVESTOCK. IRRIGATION METERS ARE SUBJECT TO ALL DISTRICT REQUIREMENTS AND FEES, UNLESS OTHERWISE APPROVED BY THE DISTRICT.
18. ALL EXISTING AND PROPOSED WATER AND FIRE SERVICES SERVING COMMERCIAL OR MULTIPLE DWELLING UNITS SHALL BE REQUIRED TO INSTALL AN APPROVED BACKFLOW DEVICE. ANY EXISTING WATER SERVICES SERVING THE PROPERTY THAT WILL NOT BE USED SHALL BE ABANDONED BY THE DISTRICT AT THE OWNER'S EXPENSE. COORDINATE APPROVAL OF THE BACKFLOW DEVICE WITH THE AGENCY'S CROSS CONNECTION SPECIALIST.
19. WHERE FIRE HYDRANTS AND WATER APPURTENANCES ARE INSTALLED AT THE TOE OF A SLOPE, RETAINING WALLS SHALL BE INSTALLED (WAS DRAWING WM-03), AS DIRECTED BY THE AGENCY'S INSPECTOR.
20. CONTRACTOR IS TO COORDINATE THE APPROVAL OF THE LOCATION (AFTER STAKING) OF THE PROPOSED FIRE PROTECTION FACILITIES WITH THE FIRE DEPARTMENT OF JURISDICTION, PRIOR TO INSTALLATION OF THE FACILITIES.

**SEWER NOTES: (Include on sewer improvement plans)**

1. ALL LATERALS AND MAINS SHALL BE TESTED AND TELEVISED AFTER CONSTRUCTION OF ALL OTHER UTILITIES AS SPECIFIED IN SECTION 15043 OF THE STANDARD SPECIFICATIONS.
2. ALL FORCE MAINS SHALL BE CONSTRUCTED WITH A 36 INCH MINIMUM COVER. ALL GRAVITY MAINS SHALL BE CONSTRUCTED WITH AN INVERT DEPTH OF 7.5 MINIMUM FEET, UNLESS OTHERWISE SHOWN APPROVED ON AGENCY APPROVED PLANS.
3. ALL LOTS SHALL BE SERVED BY PVC LATERALS SET AT MINIMUM GRADE OF 2.0% AND AN INVERT DEPTH OF 5.5 MINIMUM FEET AT PROPERTY LINE, UNLESS OTHERWISE APPROVED BY AGENCY. ALL SEWER LATERALS SHALL BE INSTALLED PER SS-01 AND SS-02.
4. THE CONTRACTOR MUST SECURE APPROVAL FROM THE AGENCY INSPECTOR PRIOR TO BACKFILLING OVER ANY SEWER MAIN, LATERALS, OR "Y"s.
5. MANHOLES ARE TO BE CONSTRUCTED PER WAS STANDARD DRAWING SM-01 OR SM-02.
6. ALL END OF PIPE MANHOLES WILL BE BUILT WITH AN UPSTREAM 5 FOOT STUB OUT AND PLUGGED FOR FUTURE CONNECTIONS.
7. MANHOLES TO HAVE WATER TIGHT JOINTS PER STANDARD DRAWING SM-05.
8. ALL SEWER MAINS ARE TO BE PVC WITH A MINIMUM 8 INCH DIAMETER UNLESS APPROVED BY THE DISTRICT ENGINEER.
9. MANHOLES TO BE VACUUM TESTED PRIOR TO ACCEPTANCE IN ACCORDANCE WITH STANDARD SPECIFICATION SECTION 03461.
10. CONTRACTOR RESPONSIBLE FOR ANY SEWAGE SPILLS.