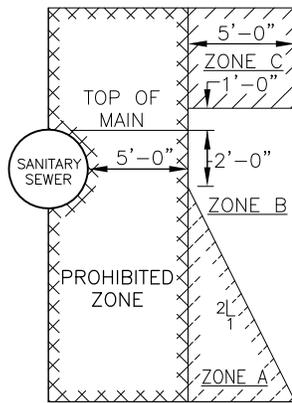
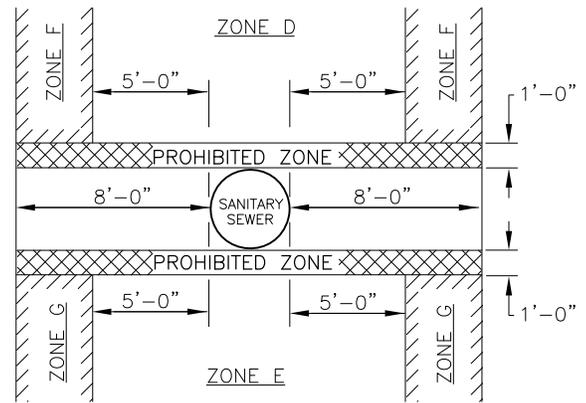


NEW WATER MAIN INSTALLATION WITHIN TEN (10) FEET OF THE EDGE OF A SANITARY SEWER MAIN



PARALLEL CONSTRUCTION

NTS



CROSSING CONSTRUCTION

NTS

NOTES:

1. FOR THE PURPOSES OF THIS STANDARD DRAWING, REFERENCES TO SANITARY SEWER MAINS SHALL APPLY TO ALL PIPELINES OF SPECIAL CONCERN SUCH AS PIPELINES CONVEYING ANY OF THE FOLLOWING:
 - A) UNTREATED SEWAGE;
 - B) PRIMARY OR SECONDARY TREATED SEWAGE;
 - C) DISINFECTED SECONDARY-2.2 RECYCLED WATER AND DISINFECTED SECONDARY-23 RECYCLED WATER;
 - D) HAZARDOUS FLUIDS SUCH AS FUELS, INDUSTRIAL WASTES, AND WASTEWATER SLUDGE; AND SHALL ALSO APPLY TO SANITARY SEWER LATERAL CONNECTIONS WHICH CROSS ABOVE THE WATER MAIN; PER CALIFORNIA DEPARTMENT OF PUBLIC HEALTH GUIDANCE MEMO NO. 2003-02 AND CALIFORNIA CODE OF REGULATIONS SECTION 64572.
2. ALL WATER MAINS SHALL MAINTAIN A 10'-0" CLEARANCE (EDGE TO EDGE) FROM SEWER FORCE MAINS. NO CLEARANCE EXCEPTIONS SHALL BE MADE FOR SEWER FORCE MAINS.
3. ALL WATER MAINS REQUIRED TO BE CONSTRUCTED OF SPECIAL PIPE MATERIAL SHALL BE CONSTRUCTED OF EITHER CEMENT MORTAR LINED AND TAPE-WRAPPED MINIMUM 1/4" THICK WELDED STEEL PIPE OR AWWA C900 DR14 PVC PIPE. THE CHOICE OF PIPE MATERIALS SHALL BE APPROVED BY THE DISTRICT.
4. DIMENSIONS ARE FROM THE OUTSIDE OF WATER MAIN TO THE OUTSIDE OF THE OTHER PIPELINE, MANHOLE, OR SLEEVE.
5. WATER MAIN CROSSING SHALL BE AS PERPENDICULAR AS POSSIBLE, AND NO LESS THAN 45° TO THE SANITARY SEWER.
6. WITH DISTRICT APPROVAL, THE ONLY JOINTS PERMITTED WITHIN ZONES F AND G SHALL BE JOINTS FOR ELBOW FITTINGS USED TO PROVIDE TRANSITION FROM A CROSSING CONSTRUCTION TO A PARALLEL CONSTRUCTION WHEN PARALLEL CONSTRUCTION HAS BEEN APPROVED FOR ZONES A, B, OR C.

ZONE

SPECIAL CONSTRUCTION REQUIREMENTS FOR WATER MAIN

- A. NO WATER MAIN PARALLEL TO SANITARY SEWER MAIN SHALL BE CONSTRUCTED WITHOUT PRIOR WRITTEN APPROVAL FROM THE THE CALIFORNIA DEPARTMENT OF PUBLIC HEALTH AND FROM THE DISTRICT
- B. NO WATER MAIN PARALLEL TO SANITARY SEWER MAINS SHALL BE CONSTRUCTED WITHOUT PRIOR WRITTEN APPROVAL FROM THE DISTRICT. WATER MAIN SHALL BE CONSTRUCTED OF SPECIAL PIPE MATERIAL. SEE NOTE 3
- C. WATER MAIN SHALL BE CONSTRUCTED OF SPECIAL PIPE MATERIAL. SEE NOTE 3
- D. NO JOINTS OR SERVICE CONNECTIONS PERMITTED IN THE WATER MAIN WITHIN THIS ZONE
- E. WATER MAIN SHALL BE CONSTRUCTED OF SPECIAL PIPE MATERIAL, SEE NOTE 3. NO JOINTS OR SERVICE CONNECTIONS PERMITTED IN THE WATER MAIN WITHIN THIS ZONE
- F. NO JOINTS PERMITTED IN THE WATER MAIN WITHIN THIS ZONE
- G. WATER MAIN SHALL BE CONSTRUCTED OF SPECIAL PIPE MATERIAL, SEE NOTE 3. NO JOINTS PERMITTED IN THE WATER MAIN WITHIN THIS ZONE



ALAMEDA COUNTY WATER DISTRICT
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STANDARD DRAWING

HORIZONTAL AND VERTICAL CLEARANCE REQUIREMENTS BETWEEN WATER MAINS AND SANITARY SEWERS

APPROVED 12/15/2008
 ENGINEERING MANAGER DATE

					DESIGNED	ACWD	DATE: DEC. 2008	
					DRAWN	RMF	SCALE: NONE	
0	12-08	NEW STD. DWG.	RMF	LJA	CHECKED	LJA	DWG. NO.	REV.
NO.	DATE	REVISION	BY	APP.	DIV. MGR.	EHS	CL-2-08	0