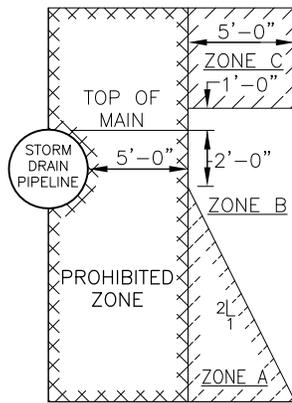
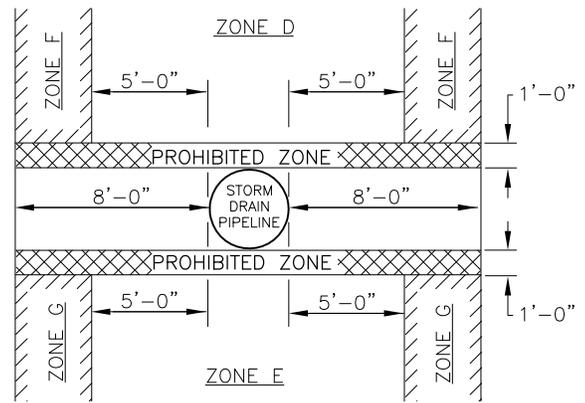


NEW WATER MAIN INSTALLATION WITHIN TEN (10) FEET OF THE EDGE OF A STORM DRAIN PIPELINE



PARALLEL CONSTRUCTION

NTS



CROSSING CONSTRUCTION

NTS

NOTES:

1. FOR THE PURPOSES OF THIS STANDARD DRAWING, REFERENCES TO STORM DRAIN PIPELINE SHALL APPLY TO ALL PIPELINES CONVEYING ANY OF THE FOLLOWING:
 - A) DISINFECTED TERTIARY RECYCLED WATER;
 - B) STORM DRAINAGE: PER CALIFORNIA DEPARTMENT OF PUBLIC HEALTH GUIDANCE MEMO NO. 2003-02 AND CALIFORNIA CODE OF REGULATIONS SECTION 64572.
2. 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.
3. DIMENSIONS ARE FROM THE OUTSIDE OF WATER MAIN TO THE OUTSIDE OF THE OTHER PIPELINE, MANHOLE, OR SLEEVE.
4. WATER MAIN CROSSING SHALL BE AS PERPENDICULAR AS POSSIBLE, AND NO LESS THAN 45° TO THE STORM DRAIN PIPELINE.
5. 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 FOR ZONES A, B, OR C.

ZONE

SPECIAL CONSTRUCTION REQUIREMENTS FOR WATER MAIN

- A. NO WATER MAIN PARALLEL TO STORM DRAIN PIPELINE SHALL BE CONSTRUCTED WITHOUT PRIOR WRITTEN APPROVAL FROM THE CALIFORNIA DEPARTMENT OF PUBLIC HEALTH AND FROM THE DISTRICT
- B. NO WATER MAIN PARALLEL TO STORM DRAIN PIPELINE SHALL BE CONSTRUCTED WITHOUT PRIOR WRITTEN APPROVAL FROM THE DISTRICT
- C. NO SPECIAL CONSTRUCTION REQUIREMENTS IN THIS ZONE
- 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 2. 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 2. NO JOINTS PERMITTED IN THE WATER MAIN WITHIN THIS ZONE



ALAMEDA COUNTY WATER DISTRICT
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 P.O. BOX 5110
 FREMONT, CA 94537-5110
 (510) 668-4200

STANDARD DRAWING

**HORIZONTAL AND VERTICAL
 CLEARANCE REQUIREMENTS BETWEEN
 WATER MAINS AND STORM DRAINS**

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. |
| NO. | DATE | REVISION | BY | APP. | DIV. MGR. | EHS | CL-3-08 |
| | | | | | | | 0 |