



WATER MAIN SIZE	MIN. RP ASSEMBLY SIZE
6"	4"
8"	6"
10" - 12"	8"
14" - 18"	10"

REVISION	DATE
10-10-21	

MADERA VALLEY WATER COMPANY

WATER MAIN CONNECTION PROCEDURE

STD.DWG.

W-8

SHT. 1 OF 4

NOTES:

1. WATER MAIN CONNECTION AND REDUCED PRESSURE PRINCIPAL (R.P.) BACK FLOW PREVENTION ASSEMBLY AS SHOWN ABOVE SHALL BE UTILIZED FOR CONNECTION TO THE EXISTING MAIN AS SHOWN ON PLANS. ALL MJ CONNECTIONS REQUIRE EBAA MJ RESTRAINTS.
2. DISTANCE VARIES PER INSTALLATION, DISTANCE REQUIRES COMPANY ENGINEER'S PRIOR APPROVAL. ALL PIPING BETWEEN EXISTING WATER MAIN AND RP BACKFLOW SHALL BE SWABBED WITH 1% CHLORINE SOLUTION.
3. INSTALL BLIND FLANGE WHEN R.P. ASSEMBLY IS REMOVED AND NEW WATER MAIN HAS PASSED THE BACTERIA TEST.
4. REMOVE TEST PLATE AFTER NEW WATER MAIN HAS PASSED THE BACTERIA TEST. ADJUST FLxMJ ADAPTER TO CONNECT TO TEE WITH ONE GASKET BETWEEN FLANGES. REMOVE RP BACKFLOW ASSEMBLY AND INSTALL BLIND FLANGES ON TEES.
5. CHLORINATION AND SAMPLING PORT TO BE USED ON R.P. SHALL BE ON DOWNSTREAM SIDE OF R.P. PORT MAY BE ON DOWNSTREAM ELBOW.
6. CONNECT TO EXISTING MAIN WITH EBAA SERIES 3800 MEGA-COUPLING. IF VALVE IS BEING ADDED, USE FLANGED VALVE AND FLANGE BY MJ ADAPTER WITH MJ RESTRAINT. VALVE MAY BE FLANGED TO TEE.
7. SPLICING OF FINDER WIRE SHALL BE ACCOMPLISHED BY WRAPPING THE BARE ENDS OF THE WIRE TOGETHER, SOLDERING THE CONNECTION, AND WRAPPING THE SOLDERED CONNECTION WITH ELECTRICAL TAPE.

REVISION DATE	MADERA VALLEY WATER COMPANY	STD.DWG.
10-10-21	WATER MAIN CONNECTION PROCEDURE	W-8
		SHT. 2 OF 4

Water Main Installation and Connection Procedure

1. CONTRACTOR SHALL SECURE THE END OF ALL WATER MAIN PIPES BEING INSTALLED IN TRENCH EACH AND EVERY TIME THE WORK SITE IS LEFT UNATTENDED, i.e. LUNCH BREAKS, OVERNIGHT, ETC. ONLY WATER TIGHT PLUGS WILL BE ALLOWED.
2. ALL CHLORINATION DISINFECTION PROCEDURES SHALL BE IN ACCORDANCE WITH THE CURRENT EDITION OF A.W.W.A. STANDARD, C-651, FOR DISINFECTING WATER MAINS.
3. ALL CONNECTIONS TO EXISTING COMPANY WATER MAINS, WHERE FEASIBLE, SHALL BE HOT TAP FITTINGS. GATE VALVE, TEMPORARY PLUMBING AND R.P. VALVE SHALL BE DISINFECTED BY SWABBING WITH 1% HYPOCHLORITE SOLUTION TO THE SATISFACTION OF THE COMPANY INSPECTOR PRIOR TO INSTALLATION. WHERE HOT TAP IS NOT POSSIBLE AS DETERMINED BY THE COMPANY INSPECTOR, ALL NECESSARY PRECAUTIONS, INCLUDING OVER EXCAVATION AND PUMPING, SHALL BE TAKEN TO PREVENT CONTAMINATION OF THE EXISTING MAIN. CONTRACTOR SHALL NOTIFY ALL AFFECTED WATER CUSTOMERS A MINIMUM OF 48 HOURS PRIOR TO DISRUPTION OF WATER SERVICE.
4. CONTRACTOR SHALL NOTIFY COMPANY STAFF 48 HOURS PRIOR TO COMMENCING INSTALLATION OF WATER MAIN.
5. CONTRACTOR SHALL USE APPROVED REDUCED PRESSURE PRINCIPAL (R.P.) BACKFLOW PREVENTER ASSEMBLY BETWEEN NEW WATER MAIN AND EXISTING COMPANY WATER MAIN. COMPANY INSPECTOR SHALL BE PRESENT DURING THE TIME OF CONNECTION. THE R.P. SHALL BE CHECKED, APPROVED BY AN A.W.W.A. CERTIFIED TESTER AND WRITTEN CERTIFICATION SUBMITTED TO THE COMPANY INSPECTOR AFTER INSTALLATION AND PRIOR TO ANY CONNECTION TO A NEWLY INSTALLED WATER MAIN.
6. AFTER NEW WATER MAINS AREA STERILIZED WITH A CHLORINATING AGENT, THE COMPANY INSPECTOR SHALL TEST AFTER 24 HOURS TO VERIFY RESIDUAL OF 10 ppm MINIMUM CHLORINE.
7. IF CHLORINE RESIDUAL LEVEL IS APPROVED, CONTRACTOR SHALL FLUSH NEW MAIN THROUGH R.P. VALVE UNTIL CHLORINE RESIDUAL IS ZERO (0) AS TESTED AND VERIFIED BY THE COMPANY INSPECTOR. GATE VALVE SHALL THEN BE CLOSED TO MAINTAIN ISOLATION.
8. AFTER 48 HOURS OF ISOLATION, COMPANY STAFF WILL SAMPLE FOR BACTERIOLOGICAL ANALYSIS.
9. UPON APPROVAL OF BACTERIOLOGICAL TEST, CONTRACTOR SHALL REMOVE R.P. VALVE AND BLOW-OFF ASSEMBLY, THEN MAKE CONNECTION TO THE EXISTING WATER MAIN. COMPANY STAFF SHALL BE NOTIFIED 24 HOURS IN ADVANCE AND THE COMPANY INSPECTOR SHALL BE PRESENT DURING THE CONNECTION PROCEDURE.
10. CONTRACTOR SHALL PREVENT EXCESS WATER WHICH IS FLOWING FROM DISCONNECTED PIPES FROM COMING IN CONTACT WITH EXISTING AND NEW WATER MAIN BY OVER EXCAVATION OF CONNECTION SITE. WATER SHALL BE PUMPED OUT OF WORK AREA TO PREVENT CONTACT WITH AND INFILTRATION INTO THE WATER MAINS.
11. FINAL CONNECTION PIPING AND FITTINGS SHALL BE SWABBED WITH A 1% HYPOCHLORITE SOLUTION IN ACCORDANCE WITH PARAGRAPH 3 ABOVE.
12. THE CONTRACTOR SHALL SUBMIT A CONNECTION SEQUENCE AND PLAN INCLUDING LOCATION OF R.P. VALVE FOR APPROVAL BY THE COMPANY. IN THOSE CASES WHERE THE POINT OF CONNECTION AND/OR P.R. VALVE ARE LOCATED IN A TRAFFIC AREA, REMOTE LOCATION OF R.P. VALVE MAY BE SUBMITTED FOR APPROVAL.

REVISION DATE	MADERA VALLEY WATER COMPANY	STD.DWG.
10-10-21	WATER MAIN CONNECTION PROCEDURE	W-8
		SHT. 3 OF 4

Water Main Installation and Connection Procedure Continued

13. CONTRACTOR SHALL FLUSH NEW WATER MAIN (BOTH WAYS IF POSSIBLE) THROUGH FIRE HYDRANT AND/OR BLOW-OFF ASSEMBLY IMMEDIATELY AFTER ALL CONNECTIONS HAVE BEEN MADE TO THE EXISTING WATER MAINS. THIS IS TO REMOVE CHLORINE SWABBING RESIDUE. THE COMPANY INSPECTOR WILL THEN VERIFY (0) RESIDUAL.
14. COMPANY STAFF WILL SAMPLE FOR BACTERIOLOGICAL ANALYSIS. IF ANY BACTERIA ARE FOUND IN ANY SAMPLES TAKEN THE CONTRACTOR SHALL IMMEDIATELY SUBMIT TO COMPANY STAFF A CORRECTIVE ACTION PLAN FOR RECHLORINATION AND RETESTING.
15. CONTRACTOR SHALL REIMBURSE THE COMPANY FOR ALL COSTS INCURRED BY THE COMPANY FOR BACTERIOLOGICAL RETESTING PRIOR TO FINAL PROJECT APPROVAL.
16. UPON APPROVAL, COMPANY STAFF SHALL FULLY OPEN ALL NEW MAINLINE VALVES AND FIRE HYDRANT VALVES. THE COMPANY INSPECTOR MUST VERIFY AND APPROVE THIS PROCEDURE PRIOR TO FINAL PROJECT APPROVAL.

REVISION DATE	MADERA VALLEY WATER COMPANY	STD.DWG.
10-10-21	WATER MAIN CONNECTION PROCEDURE	W-8
		SHT. 4 OF 4