



- ① MECHANICAL JOINT x FLANGE ADAPTER
- ② ALL-FLANGE CROSS
- ③ FLANGE GATE VALVE
- ④ FM - CT DETECTOR METER OR DETECTOR CHECK METER
- ⑤ DISC METER (IRRIGATION)
- ⑥ COMPANION FLANGE
- ⑦ BRASS NIPPLES
- ⑧ MECHANICAL COUPLING / THREADED BRASS UNION
- ⑨ I.P. x I.P. BRASS 90
- ⑩ CLOSE NIPPLE
- ⑪ I.P. x METER FLANGE GATE VALVE
- ⑫ I.P. x I.P. GATE VALVE
- ⑬ BRASS PIPE
- ⑭ ALL-FLG TEE
- ⑮ OPTIONAL I.P. x I.P. GATE VALVE

**NOTES:**

1. VAULTS SHALL BE SIZED PER SPECIFICATIONS AND MINIMUM CLEARANCES. VAULTS SHALL BE DESIGNED FOR SITE SPECIFIC CONDITIONS BY A LICENSED STRUCTURAL ENGINEER.
2. ALL VAULTS SHALL BE SUPPORTED WITH ADEQUATE CONCRETE FLOOR AND SHALL BE DESIGNED TO PREVENT BOUYANCY FROM GROUNDWATER IF GROUNDWATER EXISTS AT ANY TIME DURING THE YEAR. VAULTS SHALL BE WATER-TIGHT.
3. PRECAST CONCRETE UTILITY VAULTS MAY BE USED IN LIEU OF CAST-IN-PLACE WHEN SIZES ARE AVAILABLE.
4. BACKFLOW DEVICES TO BE INSTALLED ON SERVICE AND IRRIGATION LINES AS REQUIRED.
5. STANDARD BYPASS SIZE IS 2 INCH.
6. IRRIGATION IS NOT A CRITERION FOR DETECTOR CHECK VALVE VAULTS.
7. TEES AND VALVES SHALL BE SUPPORTED WITH PIER BLOCKS OR JACKS.
8. VAULT DEPTH SHALL BE SUCH THAT THERE IS A MINIMUM CLEARANCE TO THE VAULT LID OF 6" WHEN THE VALVES ARE FULLY OPEN.

**CITY OF FLORENCE  
STANDARD DRAWING**

**FM-CT COMPOUND  
METER SETTINGS  
WITH IRRIGATION**

DATE:  
10-3-11

DRAWING NO.  
F-410