



NOTES:

1. All bends shall be 45° or 22-1/2° fittings, as required for proper horizontal separation.
2. All mechanical joints shall be provided with approved joint restraint devices, "MEGALUGS" by EBBA, or equal. Tracing wire required for all non-metallic pipe. Metallic underground tape shall be placed 1 ft. above top of pipe.
3. Thrust blocks are required at all bends, tees and valves in accordance with Standard Detail W-7.
4. New water mains shall not be installed in the same trench as, and shall be at least 10 ft. horizontally from and one foot vertically above, any parallel sanitary sewer line.
5. New water mains shall be installed at least 4 feet horizontally from, and one foot vertically above, any parallel storm drainage pipeline.
6. If crossing a sanitary or storm drainage pipeline, a new water main shall be constructed no less than 45 degrees to and at least one foot above that pipeline. No connection joints shall be made in the water main within eight horizontal feet of the sanitary or storm drainage pipeline.
7. New water mains shall not be installed within 100 horizontal feet of the nearest edge of any sanitary landfill, wastewater disposal pond, or hazardous waste disposal site, or within 25 feet of the nearest edge of any cesspool, septic tank, sewage leach field, seepage pit, underground hazardous materials storage tank, or groundwater recharge project site.

NOT TO SCALE

**STANDARD
DETAIL**

**CITY OF BRISBANE
DEPARTMENT OF PUBLIC WORKS**

DATE:06/25/07

**WATER MAIN INSTALLATION
AND PIPE LOWERING DETAIL**

W-12