

MINIMUM SERVICE CLEARANCE REQUIREMENTS

MRWA Edition of the WSA Water Supply Code

Utility (Existing service)	Minimum horizontal clearance mm		Minimum vertical clearance ¹ mm
	New Water Main Size		
	≤DN 200	>DN 200	
Water mains >DN 375	600	600	500
Water mains ≤DN 375	300 ²	600	150
Gas mains	300 ²	600	150
Telecommunication conduits and cables	300 ²	600	150
Electricity conduits and cables	500	1000	225
Drains	300 ²	600	150 ³
Sewers	1000 ⁴ /600	1000 ⁴ /600	500 ³
Kerbs	150	600 ⁵	150 (where possible)

- 1 Vertical clearances apply when water mains cross one another and other utility services, except in the case of sewers when a vertical separation shall
- 2 Clearances can be further reduced to 150 mm for distances up to 2 m when passing installations such as poles, pits and small structures, providing the
- 3 Water mains should always cross over sewers and stormwater drains. For cases where there is no alternative and the main must cross under the sewer,
- 4 When the sewer is at the minimum vertical clearance below the water main (500 mm), maintain a minimum horizontal clearance of 1000 mm. This
- 5 Clearance from kerbs shall be measured from the nearest point of the kerb. For water mains ≤DN 375 clearances from kerbs can be progressively

MRWA Edition of the WSA Sewer Code

Utility (Existing service)	Minimum horizontal clearance mm		Minimum vertical clearance ¹ mm
	New Sewer main Size		
	≤DN 300	>DN 300	
Sewers ≤DN 300	300	600	150 ² /300
Sewers >DN 300	600	600	300
Gas mains	300 ³	600	150 ² /300
Telecommunication conduits and cables	300 ³	600	150 ² /300
Electricity conduits and cables	500	1000	225 ² /300
Drains	300 ³	600	150 ² and 4/300 ⁴
Water mains	1000 ⁵ /600	1000 ⁵ /600	500 ⁴
Kerbs	150	600 ⁶	150 (where practicable)

- NOTES:
- 1 Vertical clearances apply when sewers cross one another, except in the case of water mains when a vertical separation shall always be maintained, even when the sewer and main are parallel. The sewer should always be located below the main to minimise the possibility of backflow contamination in the event of a main break.
 - 2 A minimum vertical clearance of 300 mm applies if the size of either the existing service or proposed sewer is >DN 300.
 - 3 Clearances can be further reduced to 150 mm for distances up to 2 m when passing installations such as poles, pits and small structures, providing the structure is not destabilised in the process.
 - 4 Sewers should always cross under water mains and stormwater drains. For cases where there is no alternative and the sewer must cross over a water main, construction shall be in accordance with Standard Drawing WAT-1211 of WSA 03.
 - 5 When the sewer is at the minimum vertical clearance below the water main (500 mm) maintain a minimum horizontal clearance of 1000 mm. This minimum horizontal clearance can be progressively reduced to 600 mm as the vertical clearance increases to 750 mm.
 - 6 Clearance from kerbs shall be measured from the nearest point of the kerb.