



FIGURE 110-A: RETICULATION SEWERS WITH ROAD CROSSINGS

NOTES:

1. Road crossing sewers are more cost effective (than sewerage mains on both sides of the road) where:
 - 1.1. The road reserve is narrow,
 - 1.2. The frontage of lots is large,
 - 1.3. There are few problems with deep obstructions which would lead to the road crossing sewers needing to be deepened.
2. Locate retic / branch sewer mains under the footpath / nature strip, and
 - 2.1. Locate as close to the center of the nature strip as practicable,
 - 2.2. Maintain minimum clearances of sewers and maintenance structures from other services in accordance with section 5.4.5.2 of the code, and
 - 2.3. Maintain at least the minimum offset from the front property boundary.
3. Locate reticulation sewer on the side of the road which has the deeper connections and/or the least road crossings.
4. Ensure maintenance structure covers are contained entirely within the footpath pavement or nature strip if practicable.
5. Sewerage mains aligned (parallel) and under the road pavement are only allowed if there is insufficient available space under the footpath / nature strip.
6. Construct sewers within the dimensional tolerances described in section 22 of the code.

TABLE 110-A: POINT OF CONNECTION TIES AND FRONT OFFSETS

PROPERTY CONNECTION LOCATION	SIDE TIE
DRIVEWAY SIDE OF LOT AND TYPE 1A, 4A OR B CONNECTION, or LOT IS <10m WIDE	1.2m (FROM DRIVEWAY SIDE BOUNDARY)
DRIVEWAY SIDE OF LOT AND TYPE 1B, 2, 4B OR S CONNECTION, and LOT IS ≥10M WIDE	7m (FROM DRIVEWAY SIDE BOUNDARY)
ADJACENT TO SIDE BOUNDARY AWAY FROM DRIVEWAY	2.5m (FROM SIDE BOUNDARY NOT ADJACENT TO DRIVEWAY)

BUILDING ENVELOPE	FRONT OFFSET
BUILDING ENVELOPE FRONT OFFSET > 1m	300 INSIDE PROPERTY BOUNDARY
BUILDING ENVELOPE FRONT OFFSET ≤ 1m	600 INSIDE ROAD RESERVE

NOTES Regarding Point of Connection Ties and Front Offsets:

- It is assumed drainage services are at 5.5m from side boundaries. A 7m sewerage service tie therefore provides adequate clearance between the drain and sewerage services.
- Where building envelope front offsets are ≤1m from the front boundary and the property connection is finished 600 inside the road reserve boundary, the inspection opening at the end of the service is to be brought to surface and capped with a ductile iron trafficable cover.
- For CWW, the developer may elect to install privately owned house drain plumbing (to AS/NZS 3500) to the road reserve boundary (or beyond) to prevent the future need for pavement to be excavated. This short section of private plumbing may be completed without receiving PIC from the Water Agency.

LEGEND

- PROPERTY CONNECTION PIPEWORK
- RETICULATION MAIN PIPEWORK
- MAINTENANCE STRUCTURE
- INSPECTION SHAFT
- PROPERTY BOUNDARY
- POTENTIAL OBSTRUCTION
- SERVICE CONNECTIONS

ALL DIMENSIONS IN mm UNLESS STATED OTHERWISE				DESIGNED: R. JAGGER		DATE: 1 JULY 2015	
				DRAWN: R. JAGGER		DATE: 1 JULY 2015	
4	ALTERED TIES	1/04/17	CP / RJ / DD	CHECKED: NAME	DATE	APPROVED: NAME	DATE
3	IS AT END OF LONGER RD CROSSING BRANCH	1/6/16	RJ / CP / JT	<input checked="" type="checkbox"/> CWW	D. MOORE	01/09/15	<input checked="" type="checkbox"/> CWW
2	PUBLISHED FIRST ISSUE	01/10/15	CP / JT / KD / RJ	<input checked="" type="checkbox"/> SEW	C. PAXMAN	01/09/15	<input checked="" type="checkbox"/> SEW
1	PRE-PUBLISHED DRAFT	01/03/15	CP / JT / KD / RJ	<input checked="" type="checkbox"/> YVW	K. DAWSON	01/09/15	<input checked="" type="checkbox"/> YVW
REV	DESCRIPTION	DATE	APPROVED	ISSUED 2015		VERSION 1	

MELBOURNE RETAIL WATER AGENCIES		MRWA SEWERAGE STANDARDS		NOT TO SCALE	
ROAD RESERVE SEWERAGE SERVICING ROAD CROSSING ARRANGEMENTS				MRWA-S-110	
				Planning	Design
				✓	✓
				Construction	
				✓	✓