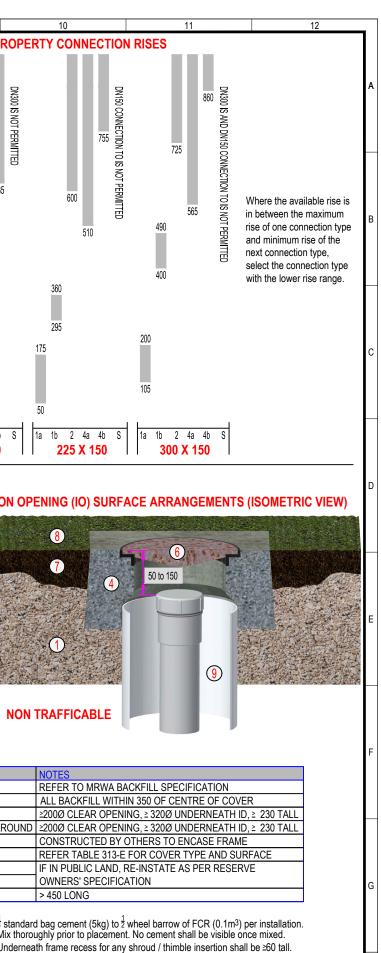
1		2	3	4 5	6	7	8 9	
			MITATIONS AND SITUATION				EWER MAIN AND INSPECTION	SHAFT P
TYPE (	CONFIGURATION	ON GRADE	RISE OF CONNECTION           150 X 100 = 60 to 125	SITUATIONS OF USE AND COMMENTS Only for connections which control (or almost control)	the source main's lovel	950 -	// ////	
	$\bigcirc$	CONNECTION WITH	225 X 100 = 75 to 200	Property connection may drown (flood) during peak flo		900 -	/	
(MRWA-S-302)		45° BEND AT JUNCTION	300 X 100 = 130 to 260 225 X 150 = 50 to 175	May or may not be an obstruction above or below prop	perty connection	850 -	// ////	
		JUNCTION	300 X 150 = 105 to 200			800 -	780	
TYPE 1b	$\bigcirc$	ON GRADE	150 X 100 = 175 to 240	For connections where:		750 -	// ///	
(MRWA-S-302)		CONNECTION WITH 60° BEND AT	225 X 100 = 265 to 330 300 X 100 = 360 to 450	<ul> <li>i) the lot's control level enables a higher connection</li> <li>ii) the lot's control level is not high enough for a riser</li> </ul>		700 -	// ///	
(	<b>O</b>	JUNCTION	225 X 150 = 295 to 360	May or may not be an obstruction above or below the		650 -	// ///	6
TYPE 2		RISER (JUMP UP)	300 X 150 = 400 to 490 150 X 100 > 350	For connections where the lot's control level permits a	riser nine to be fitted	600 -	// ///	570
TYPE 2F		CONNECTION	225 X 100 > 445	May or may not be an obstruction above or below the		R 550 -		570
(MRWA-S-303)			300 X 100 > 570 225 X 150 > 600	"Double jump up" (ie: 2 risers) not allowed. If obstruction above, lot's control level shall be below of	obstruction minus min clearance	S 450	515	450
	Ó		300 X 150 > 725	If riser pipe > 2m tall, special couplings required> be			460 445	
TYPE 4a		OFFSET RISER	150 X 100 > 335	For connections where:		400 -		405
TYPE 4aF	()]	(JUMP UP). 45° BEND AT	225 X 100 > 350 300 X 100 > 405	<ul> <li>i) the connection's point is on the other side of an ob</li> <li>ii) the obstruction controls (or almost controls) the set</li> </ul>		350 - 350 335	330 350 36	360
(MRWA-S-304)	$\sim$	JUNCTION.	225 X 150 > 510	iii) the lot's control level permits a riser pipe on the lo	t's side of the obstruction.	300 - 300 250 - 240	260	
			300 X 150 > 565	iii) If riser pipe > 2m tall, special couplings required	> becomes TY4aF	200	200 265	
TYPE 4b TYPE 4bF		OFFSET RISER (JUMP UP).	150 X 100 > 450 225 X 100 > 515	For connections where: i) the connection's point is on the other side of an ob-	ostruction from the sewer main.	200 -		
		60° BEND AT	300 X 100 > 635	ii) the obstruction's level enables higher connection t	to the sewer main (so no flooding)	125	130	
(MRWA-S-304)	0	JUNCTION.	225 X 150 > 755 300 X 150 > 860	<ul> <li>iii) the lot's control level permits a riser pipe on the lo</li> <li>iv) If riser pipe &gt; 2m tall, special couplings required</li> </ul>		100 -		
TYPE S (IS)		CONNECTION TO	150 X 100 > 460	For connections where:		50 - 60 SEWER	75	
(MRWA-S-302	<u> </u>	END OF SEWER MAIN'S RISER	225 X 100 > 780 300 X 100 . NOT PERMITTED	<ul> <li>i) the lot is at the end of the sewer main.</li> <li>ii) the lot's control level permits connection to a riser</li> </ul>	at the end of the sewer main	MAINIL 1a 1b 2 4a 4		1b 2 4a 4l
to 304)		MAINS RISER	225 X 150 . NOT PERMITTED			150 X 10	00   225 X 100   3	300 X 100
TYPE B		CONNECTION TO	300 X 150 . NOT PERMITTED					
ITPEB		BASE OF MS, MC, MH	> 80	Generally for connections which control sewer main le For connecting to base of maintenance structure when		FIGURE 301-B · DN150	) INSPECTION SHAFT (IS) and II	INSPECTI
TYPE 4B	200	CONNECTION TO	> 80 + MIN RISE OF BENDS	i) For where connection's point is on other side of ar	•	100112 301-D . D1130		
TYPE 4BF	(MS, MC or MH)	BASE OF MS, MC, MH WITH OFFSET RISER		<ul> <li>ii) where the lot's control level permits a riser pipe or</li> <li>iii) If riser pipe &gt; 2m tall, special couplings required</li> </ul>			6	
TYPE S			MS & MC > 750	For connecting to shaft of maintenance structures whe				SS CA
			H MH > 500 to 900 (Ø dependant)			5	100 to 200 3	1222
TYPE 4S TYPE 4SF		CONNECTION TO	MS & MC > 750 H MH > 500 to 900 (Ø dependant)	<ul> <li>For where connection's point is on other side of ar</li> <li>where the lot's control level permits a riser pipe or</li> </ul>				
ITFE 40F	(MS, MC or MH)	WITH OFFSET RISER		iii) If riser pipe > 2m tall, special couplings required				
NOTES Rega	rding Table 301-A		•	•				
<ul> <li>Connection's</li> </ul>	point shall be < 1500 de	ep where possible.	Notation example: 300 (main size) Rises include a provision of 50 for		nection be longer than 3m, an	2		
	oth of connection's point in's invert at connection	011011 00 2000.	3m of property connection pipe wo		) permitted on any connection.			
F	IGURE 301-C: SH	AFT SUPPORTS (SEC						
•  .						TRAFFICABLE		
			D			(All Paved Areas)		
				V EMBEDMENT		TABLE 301-C: FIGURE	301-B COMPONENTS	
Ŋ						ITEM ID DESCRIPTION	MATERIAL	
Ň		EMBEDM	ÎNT Î			1 NORMAL BACKFIL 2 STABILIZED BACK		
	- R			R	<b>老</b> 山	3 FRAME	DI FRAME	
	STABILIZED			STABILIZED		4 FRAME & SURRO		
1	EMBEDMENT			EMBEDMENT		5 PAVEMENT 6 COVER	BITUMEN, PAVING or CONCE DI or DI / CONCRETE	REIE
						7 TOP SOIL	NATIVE SOIL	
P>	2 X 45 deg BE	END INSPECTION SHA	AFT BASE	OB + 60 deg BEND + RISER. TYPE 2 or		8 GRASS 9 SHROUD / THIMBI	LE DN300 DWV	
_	ABLE 301-B: CEM	ENT STABILIZED EM	BEDMENT PARAMETERS				ure 204 D Homes	
		UPPORT VOLUME 1 m <sup>3</sup> (1/2 WHEEL BARROW	MASS CEMENT	NOTES Regarding Figure 301-C:     Mix 6% cement to embedment material thorough	ly prior to	<ul> <li>NOTES Regarding Figure 305-C for</li> </ul>	UTE 301-B ITEMS: DN225 IS covers and frames.	em 2.
1	50 500 0.	2 m <sup>3</sup> (1 WHEEL BARROW)	10 kg (1/2 BAG)	placement. No cement shall be visible once mixe	ed.	Only GWW and YVW requ	uire IO to surface. Ite	ems 3 & 4.
2	25 600 0.	4 m <sup>3</sup> (2 WHEEL BARROWS	) 20 kg (1 BAG)	Place under and behind bend. Not required abov	ve the bend.	Locate screw cap within s	hroud / cover within 50 to 100 of FSL.	
			DESIGNED: R. JAGGER DRAWN: R. JAGGER		MELBOURNE RETAIL W	ATER AGENCIES	MRWA SEW	ERAGE
			CHECKED: NAME	DATE APPROVED: NAME DATE		Varra		
3 TABLE 301	I-A. TYB, IS/IO CONSTRUCT			GWW R. CARRUTHERS	Greater Western South Ea	Ast Yarra Valley	PROPERTY CON	NNECT
								•
2 PUBLISHE			KD / RJ 🛛 SEW C. PAXMAN	SEW D. O'DONOVAN	Water	Water		&
2 PUBLISHE	ISHED DRAFT DESCRIPTION	01/03/15 CP / JT / K 01/03/15 CP / JT / K DATE APPROVI	KD / RJ 🛛 YVW K. DAWSON	VERSION 1	Water	Water	IS AND TYPE 2 C	& ONSTI



Shroud / thimble not required when frame underneath recess ≥150 tall.

STANDARDS	NOT TO SCALE										
ONS (GENERAL)	MRWA-S-301									Н	
UCTION DETAILS	Planning	<ul><li>✓</li></ul>	Des	sign		Co ✓	nstr	uct	ion		
10		11					1	2			