

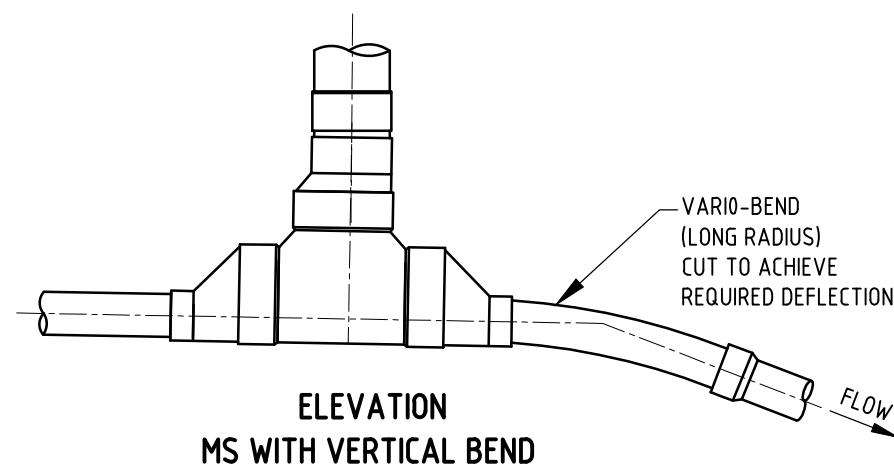
ENLARGEMENT

NOTES:

- REFER 4005-20002-01 TO 4005-20002-03 FOR GENERAL NOTES.
- POSSIBLE VARIO-BEND ALTERNATIVES USING DIFFERENT COMBINATIONS OF ADAPTORS:
 - SOCKET/SPIGOT BEND
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 - SPIGOT/SPIGOT BEND
- BEND CONFIGURATION:
PIPES SHALL BE LAID FROM THE DOWNSTREAM END OF THE SYSTEM, WITH THE SOCKET ENDS FACING UPSTREAM.
SHOULD THIS NOT BE POSSIBLE, APPROVAL OF THE SA WATER REPRESENTATIVE SHALL BE SOUGHT FOR AN ALTERNATIVE ARRANGEMENT.
- HORIZONTAL BEND NOT ATTACHED TO A STRUCTURE:
LONG RADIUS VARIO-BEND OPTION ILLUSTRATED. THE USE OF MULTIPLE BENDS AND COLD BENDING OF PVC PIPE ARE ALSO PERMITTED. HOWEVER BETWEEN STRUCTURES, THE COMBINED TOTAL OF ALL DEFLECTIONS SHALL NOT EXCEED 30°.
REFER 4005-20002-02 FOR INFORMATION ON COLD BENDING PVC PIPE.
- ALL VERTICAL BENDS SHALL BE LONG RADIUS BENDS.
- COMPOUND BENDS (HORIZONTAL AND VERTICAL BENDS AT THE SAME POINT) SHALL NOT BE USED WITHOUT SPECIFIC APPROVAL FROM THE SA WATER REPRESENTATIVE.

TABLE 1: 'VARIO-BEND' CUTTING DETAILS

DEFLECTION		HORIZONTAL/VERTICAL BEND LONG RADIUS R=3000mm		HORIZONTAL BEND IMMEDIATELY UPSTREAM OF MS SHORT RADIUS R=635mm
		LENGTH (mm) MEASURED ALONG OUTSIDE CURVED FACE OF 'VARIO-BEND'		
DEGREES	%	L=53.8mm PER 1°		
2	3.49	MIN	110	N/A
3	5.24		160	N/A
4	6.99		215	N/A
5	8.74		270	N/A
6	10.51		325	N/A
7	12.27		375	N/A
8	14.05		430	MIN 100
9	15.83		485	110
10	17.63		540	125
11	19.43		590	135
12	21.25		645	150
13	23.08		700	160
14	24.93		755	175
15	26.79		805	185
16	28.67		860	200
17	30.57		915	210
18	32.49		970	225
19	34.43		1020	235
20	36.40		1075	250
21	38.38		1130	260
22	40.40		1185	275
23	42.44		1235	285
24	44.52		1290	300
25	46.63		1345	310
26	48.77		1400	325
27	50.95		1450	335
28	53.17		1505	350
29	55.43		1560	360
30	57.73	MAX	1615	375
31	60.08	-	-	390
32	62.48	-	-	400
33	64.94	-	-	415
34	67.45	-	-	425
35	70.02	-	-	440
36	72.65	-	-	450
37	75.35	-	-	465
38	78.12	-	-	475
39	80.97	-	-	490
40	83.90	-	-	500
41	86.92	-	-	515
42	90.04	-	-	525
43	93.25	-	-	540
44	96.56	-	-	550
45	100.00	-	-	MAX 565



REVISION PANEL					DESIGN PANEL			SA WATER STANDARD DRAWINGS			A3		1
REV	DATE	DRN	DETAILS	APR	CURRENT REV	DESIGNED:	AUTHORISED:	SEWER CONSTRUCTION MANUAL			SHT SIZE	TOTAL SHEETS:	REVISION
						RJP	T.GALEK	MAINTENANCE SHAFT				SUPERSEDES: 02-0290-01 (L17)	
						MS		VARIO BEND OPTIONS				DRAWING NUMBER	
						TG		AND CUTTING TABLE				4005-20005-11	
1	31/03/16	MS	2016 STANDARDS REVIEW	TG								PREFIX	NUMBER SHEET



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