



NOTES:

- THIS ARRANGEMENT IS NOT REQUIRED WHERE THE VALVE IS BOLTED TO A TEE ON EXISTING MAIN.
- THRUST BLOCK DIMENSIONS SUITABLE FOR ALLOWABLE HORIZONTAL BEARING PRESSURE ('AHBP') OR SOIL OF 100kPa OR GREATER. SOILS LESS THAN 100kPa HYDRAULIC ENGINEER TO SPECIFY THRUST BLOCK DIMENSIONS.
- THRUST BLOCK TO EXTEND BELOW BASE OF TRENCH FOR A MINIMUM OF

DN	MINIMUM DIMENSION
<300	300mm
300 & 375	600mm
450	750mm

THRUST BLOCK TO EXTEND INTO SIDE WALLS OF TRENCH FOR A MINIMUM OF

DN	MINIMUM DIMENSION
<300	300mm
375 & 450	450mm
- USE GALVANISED BOLTS AND APPLY THREE PART OR FOUR PART PETROLATUM TAPE SYSTEM THEN COVER FLANGE WITH TWO LAYERS OF POLYETHYLENE SLEEVING INDIVIDUALLY INSTALLED AND FASTENED.
- USE TEE WITH DN80 OR DN100 BRANCH WHERE AVAILABLE. IF COVER IS INSUFFICIENT, FACE BRANCH OF TEE TO SIDE AND CONSTRUCT AS PER STD. DRG. W1-2-03A 'HYDRANT RELOCATION IN NATURE STRIP'.
- CONCRETE FOR THRUST AND ANCHOR BLOCKS SHALL BE CLASS N25 IN ACCORDANCE WITH AS.1379 AND AS.3600.
- REINFORCEMENT - MINIMUM COVER 50mm. FOR DN225 AND SMALLER USE SL81 REINFORCING MESH TO AS/NZS 4671. FOR PIPES LARGER THAN DN225 USE N16 AT 100mm MAIN WIRE, N12 AT 200mm CROSS WIRE. CUT BARS LESS THAN 300mm MAY BE OMITTED.
- REFER W1-2-07 REGARDING FUTURE CONSTRUCTION FROM TEMPORARY DEAD-END.
- PUDDLE FLANGE TO BE:
 - INTEGRALLY CAST WITH PIPE OR
 - BOLT-ON WITH NOMINAL INTERFERENCE FIT INTO GROOVE MACHINED ON THE OUTSIDE SURFACE OF A FLANGE CLASS PIPE, IN COMPLIANCE WITH CLAUSE 3.3 OF AS/NZS 2280 AND FIGURE H18.
- FOR DN450 MAINS, USE RESILIENT-SEATED VALVE WITH DN100 OR DN150 INTEGRAL BY-PASS.
- FOR DN375 AND DN450 MAINS, ADDITIONAL COVER TO MAIN MAY BE REQUIRED TO ENSURE TOP OF VALVE DOES NOT PROTRUDE ABOVE SURFACE LEVEL.
- FOR MSCL MAINS, THE USE OF A COMPOUND FITTING WITH FLANGE ENDS, THE PUDDLE FLANGE OR THRUST COLLAR AND DN80 FLANGED OFF-TAKE IS PERMITTED.
- TESTING AND CHLORINATION/DISINFECTION AS DETAILED - SEE "DISINFECTION PROCEDURE FOR WATER MAIN AND SERVICES" ON PWC WEB SITE.
- WHERE REQUIRED INSTALL SHROUD AND SURFACE BOX AS PER STD. DRG. W1-02-03J.
- FLANGE BOLTS AND NUTS TO BE TIGHTENED TO MANUFACTURERS RECOMMENDATIONS AND SEQUENCES USING A TORQUE WRENCH.

SECTION A
THRUST BLOCK & REO BAR DETAIL
N.T.S. (HALF ELEVATION SIZE)

6	NOTES AMENDED.	J.W.	JAN'24	J.C.	D.C.
5	GENERAL AMENDMENTS 2021.	P.W.	DEC'21	J.R.	D.C.
4	NOTE 11, 12 AND 13 ADDED.	A.W.	JUNE'18	J.R.	D.C.
3	NOTE 10 ADDED, DIMENSIONS CHANGED.	A.W.	APR'13	R.J.	R.J.
2	ONE LAYOUT FOR ALL SIZES.	A.W.	JUN'11	R.J.	J.P.
1	PUDDLE FLANGE CHANGED, DIMENSIONS CHANGED.	R.G.I.	JUN'10	R.J.	R.J.
NO	DESCRIPTION	DRN	DATE	CKD	APPD
	AMENDMENTS				



DES	R.JENNINGS	WATER STANDARD DRAWING	
DRN	R.INNES	MAINLAYING	
CHK	R.JENNINGS	TEMPORARY DEAD-ENDS	
APPD	J.PUDNEY	DN100 - DN450	
SCALE	N.T.S.	A3	DRAWING NUMBER W1-2-19
ISSUED	JUN'07		
ALL DIM. IN mm			
DRAFTING STANDARD TO A.S.1100		CAD PRODUCT - DO NOT AMEND MANUALLY	
			6
			AMDT