



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	900mm

 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. HORIZONTAL: N16 AT 140mm CENTRES, VERTICAL: N12 AT 150 CENTRES, 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)

NO	DESCRIPTION	DRN	DATE	CKD	APPD
5	GENERAL AMENDMENTS 2021.	PW	DEC'21	JR	DC
4	NOTE 11, 12 AND 13 ADDED.	AW	JUNE'18	JR	DC
3	NOTE 10 ADDED, DIMENSIONS CHANGED.	AW	APR'13	RJ	RJ
2	ONE LAYOUT FOR ALL SIZES.	AW	JUN'11	RJ	JP
1	PUDDLE FLANGE CHANGED, DIMENSIONS CHANGED.	RGI	JUN'10	RJ	RJ



PowerWater
NORTHERN TERRITORY

DES	R.JENNINGS	WATER STANDARD DRAWING	
DRN	R.JENNES		
CHK	R.JENNINGS	MAINLAYING	
APPD	J.PUDNEY		
SCALE	N.T.S.	TEMPORARY DEAD-ENDS	
ISSUED	JUN' 07		
ALL DIM. IN mm		DN100 - DN450	
DRAWING NUMBER		W1-2-19	5
DRAFTING STANDARD TO A.S.1100		CAD PRODUCT - DO NOT AMEND MANUALLY	