



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

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.
- 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.
- FOR THRUST BLOCKS USE MINIMUM OF GRADE N25 CONCRETE (MAXIMUM AGGREGATE SIZE 10mm).
- REINFORCEMENT - MINIMUM COVER 50mm. HORIZONTAL: N16 AT 140mm CENTRES, VERTICAL: N12 AT 150 CENTRES, CUT BARS LESS THAN 300mm MAY BE OMITTED.
- 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 IN THE SPECIFICATION. REFER PWC WATER SERVICES CUSTOMER HANDOUT 5 - GUIDELINE FOR DISINFECTION OF SUBDIVISIONS AND WATER SERVICE CONNECTIONS FROM 20mm AND GREATER, WHERE SPECIFICATION IS NOT PROVIDED.
- WHERE REQUIRED INSTALL SHROUD AND SURFACE BOX AS PER STD. DRG. W1-02-03J.
- CONNECTION VIA FLANGE, SOCKET OR GIBAULT AS PER STANDARD REQUIREMENTS.

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| 1 | NEW DRAWING 2019 - ISSUED FOR REVIEW | PW | JAN'19 | JR | DC |
| NO | DESCRIPTION | DRN | DATE | CKD | APPD |
| AMENDMENTS | | | | | |



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|-------------------------------|------------|-------------------------------------|----------------|---------|---|
| DES | R.JENNINGS | WATER STANDARD DRAWING | | | |
| DRN | R.INNES | MAINLAYING | | | |
| CHK | R.JENNINGS | IN-LINE CONNECTION | | | |
| APPD | J.PUDNEY | DN100 - DN450 | | | |
| SCALE | N.T.S. | A3 | DRAWING NUMBER | W1-2-20 | 1 |
| ISSUED | JUN' 07 | | | | |
| ALL DIM. IN mm | | CAD PRODUCT - DO NOT AMEND MANUALLY | | | |
| DRAFTING STANDARD TO A.S.1100 | | AMDT | | | |