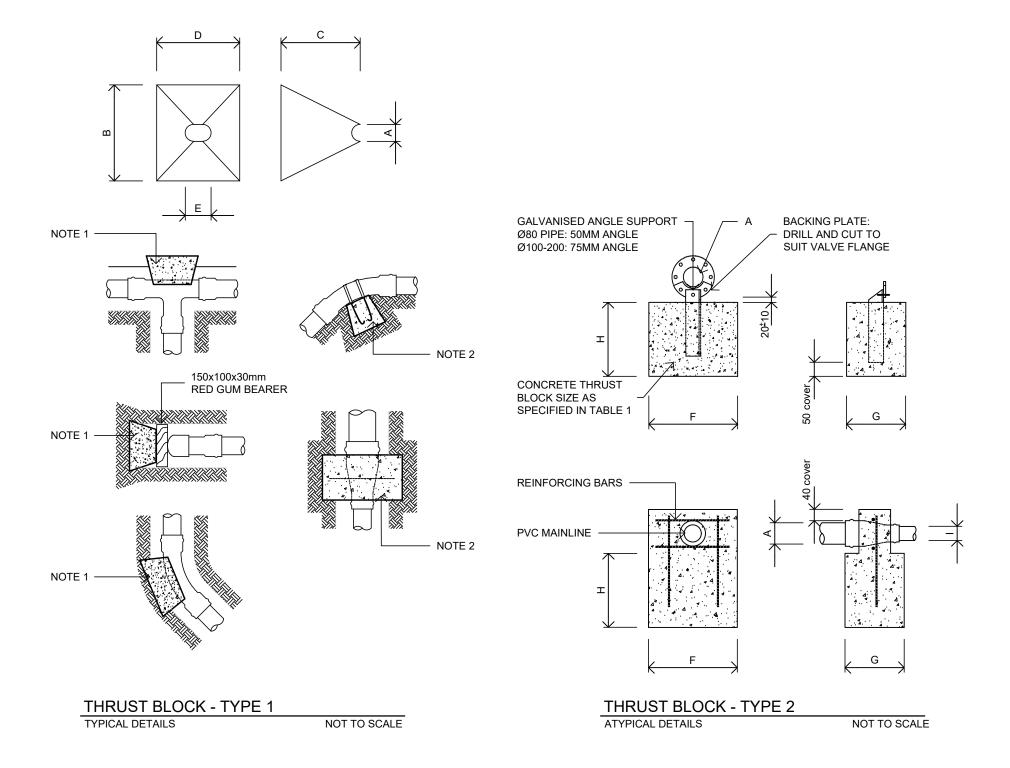
APPLICATION:

TO ALL PRESSURISED MAINLINE AND SUB MAIN PIPE WORK



THRUST BLOCK NOTES:

- 1. DIMENSIONS BASED ON CLASS 12 PIPE & 75kPa SOIL BEARING CAPACITY
- 2. THRUST BLOCKS SHALL BE OF AT LEAST 20 MPa CONCRETE AT 28 DAY STRENGTH AND HAVE A BEARING SURFACE NOT LESS THAN THAT LISTED IN TABLE 1.
- 3. THRUST BLOCKS SHALL BE INSTALLED ON ALL RRJ MAINLINE FITTINGS WHEN PRESENT ON THE PROJECT DRAWINGS INCLUDING ELBOWS, BENDS, TEES, REDUCERS, STOP ENDS AND ISOLATION VALVES BUT EXCLUDING 'SELF STRAINING' TAKE-OFFS SUCH AS TAPPING BANDS FOR AIR VALVES AND TEES TO SOLVENT WELD BRANCHES FOR SUBMAINS. ISOLATION VALVES SHALL HAVE A STEEL BRACKET RESTRAINT (SEE DRAWING).
- 4. THRUST BLOCKS SHALL BE SO PLACED THAT THE PIPE JOINTS AND ANY BOLT-UP JOINTS WILL BE ACCESSIBLE FOR INSPECTION AND REPAIR.
- CONCRETE FOR THRUST BLOCKS SHALL BE PLACED AGAINST UNDISTURBED SOIL FACE. ALL SIDES OF THE BLOCK NOT IN CONTACT WITH UNDISTURBED SOIL SHALL BE FORMED.
- 6. INSPECTION OF EXCAVATIONS SHALL BE REQUIRED FOR ALL THRUST BLOCKS PRIOR TO PLACEMENT OF CEMENT AND BACKFILLING.
- 7. ALL CABLES LAID NEAR THRUST BLOCKS SHALL BE CLEAR OF THE FITTING AND BLOCK, AND SHALL BE WRAPPED IN 10mm THERMAL INSULATOR.
- 8. TYPE 1 THRUST BLOCK DETAILS APPLIED IN THE FIELD TO ALL PRESSURIZED MAINLINE AND SUB MAIN PIPE WORK BELOW 63mm IN DIAMETER.
- TYPE 2 THRUST BLOCK DETAILS APPLIED IN THE FIELD WHEN PRESSURIZED PIPE DIAMETERS OF 80mm OR GREATER ARE APPLIED.

| TABLE 1: THRUST BLOCK DIMENSIONS (mm) | | | | | | | | | | |
|---------------------------------------|-------------------------------|---------------------------------|---------------------------|----------------------------------|---|--------------------------|--------------------------|--------------------------|-------------------------------|--|
| | Α | В | С | D | E | F | G | Н | I | |
| 90° BEND | 200 150 100 80 50 | 750 450 300 300 250 | Т | 1000 700 500 400 300 | LEA | | | | IF 'I' | |
| STOP END | 200 150 100 80 50 | 750 450 300 300 250 | TO UNDISTURBED | 750 600 400 300 300 | LEAVE ACCESS TO PIPE JOINT AND FLANGE BOLTS | | | | IF 'I' IS LESS THAN THIS, USE | |
| TEE | 200 150 100 80 | 750 450 300 300 | ED SOIL FA | 1000 700 500 400 | O PIPE JOI | | | | THIS, USE | |
| CROSS | 200 150 100 80 | | SOIL FACE - MINIMUM 500mm | | NT AND FL/ | | | | STOP END DIMENSIONS | |
| BEND | 200 150 100 80 | 750 450 300 300 | UM 500mm | 750 450 400 300 | NGE BOLT | | | | DIMENSION | |
| MAINLINE ISOLATION VALVE | 200 150 100 80 | | | | S | 800 700 550 550 | 400 400 300 300 | 600 500 450 300 | S S | |
| REDUCERS | 200 150 100 80 | | | | | 350 300 200 200 | 400 400 300 300 | 450 150 150 150 | 100 80 50 40 | |

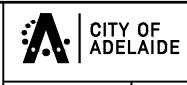


THRUST BLOCK INSTALLTION DETAILS

| REV | DESCRIPTION | DATE |
|-----|----------------|-------|
| Α | ORIGINAL ISSUE | 07/22 |
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| | | |

CONSTRUCTION STANDARDS LANDSCAPE

IRRIGATION
THRUST BLOCK INSTALLATION DETAILS



SHEET NUMBER
LS033

NUMBER REVISION A