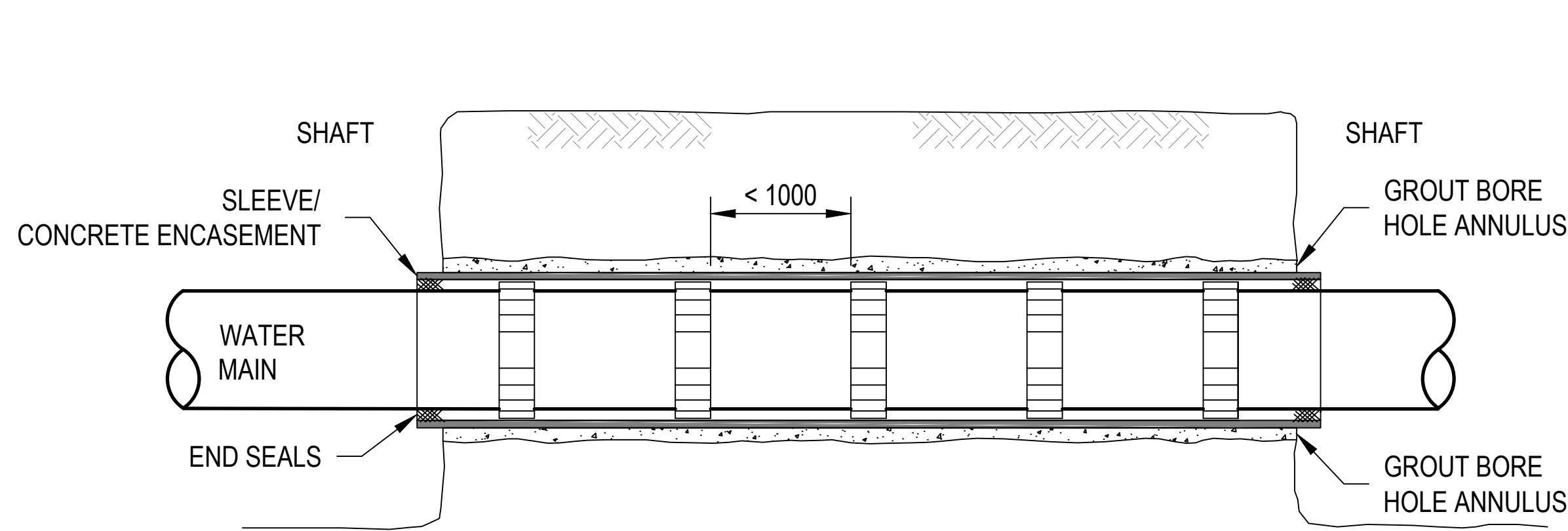
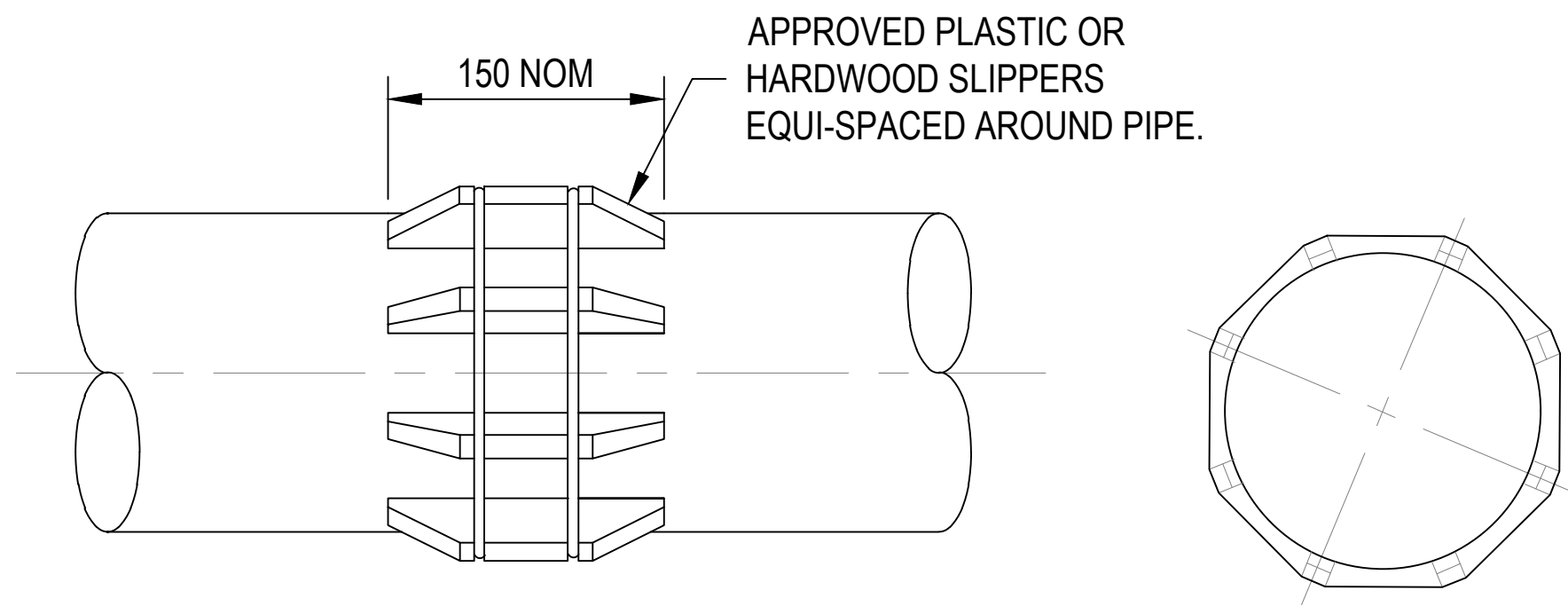
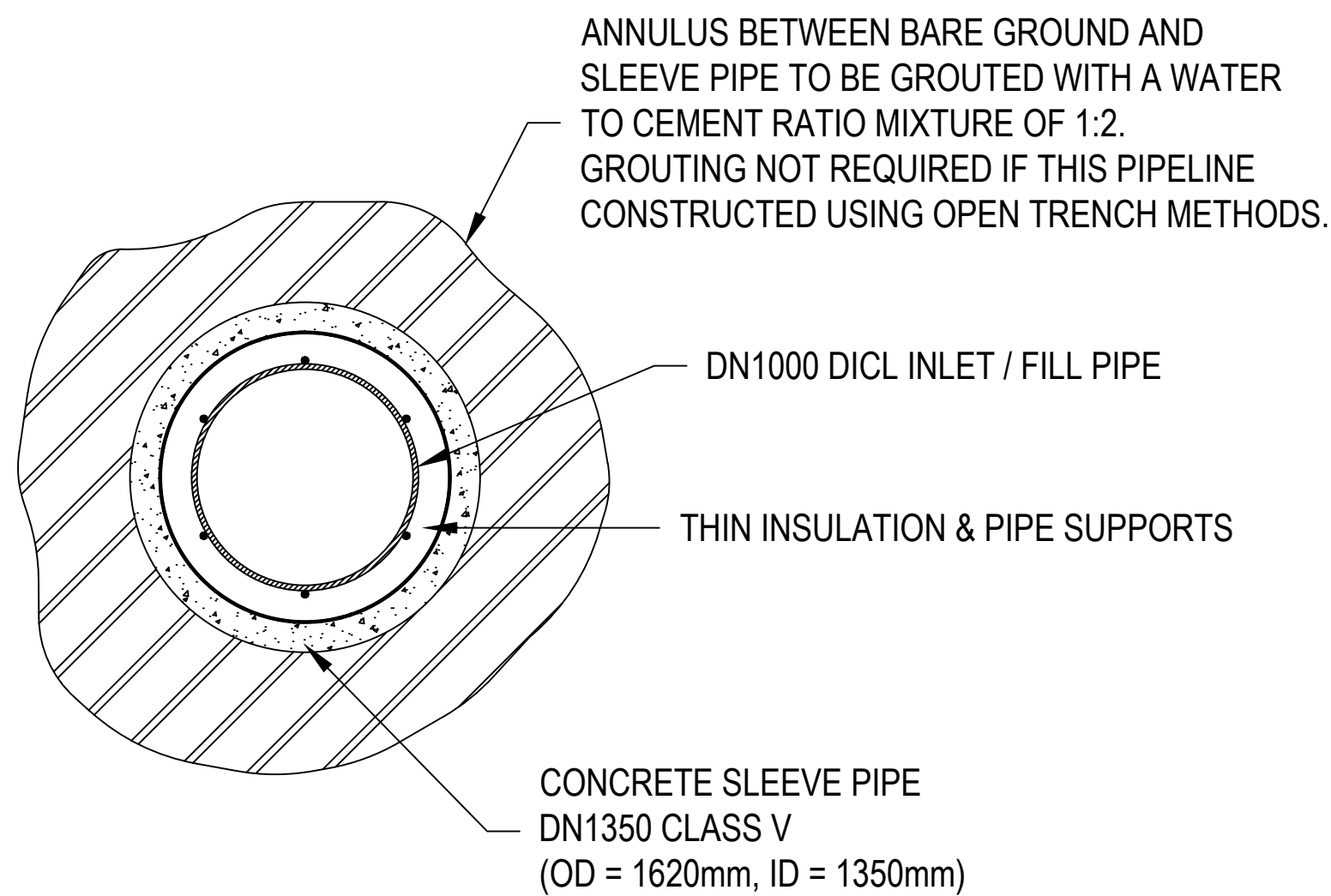




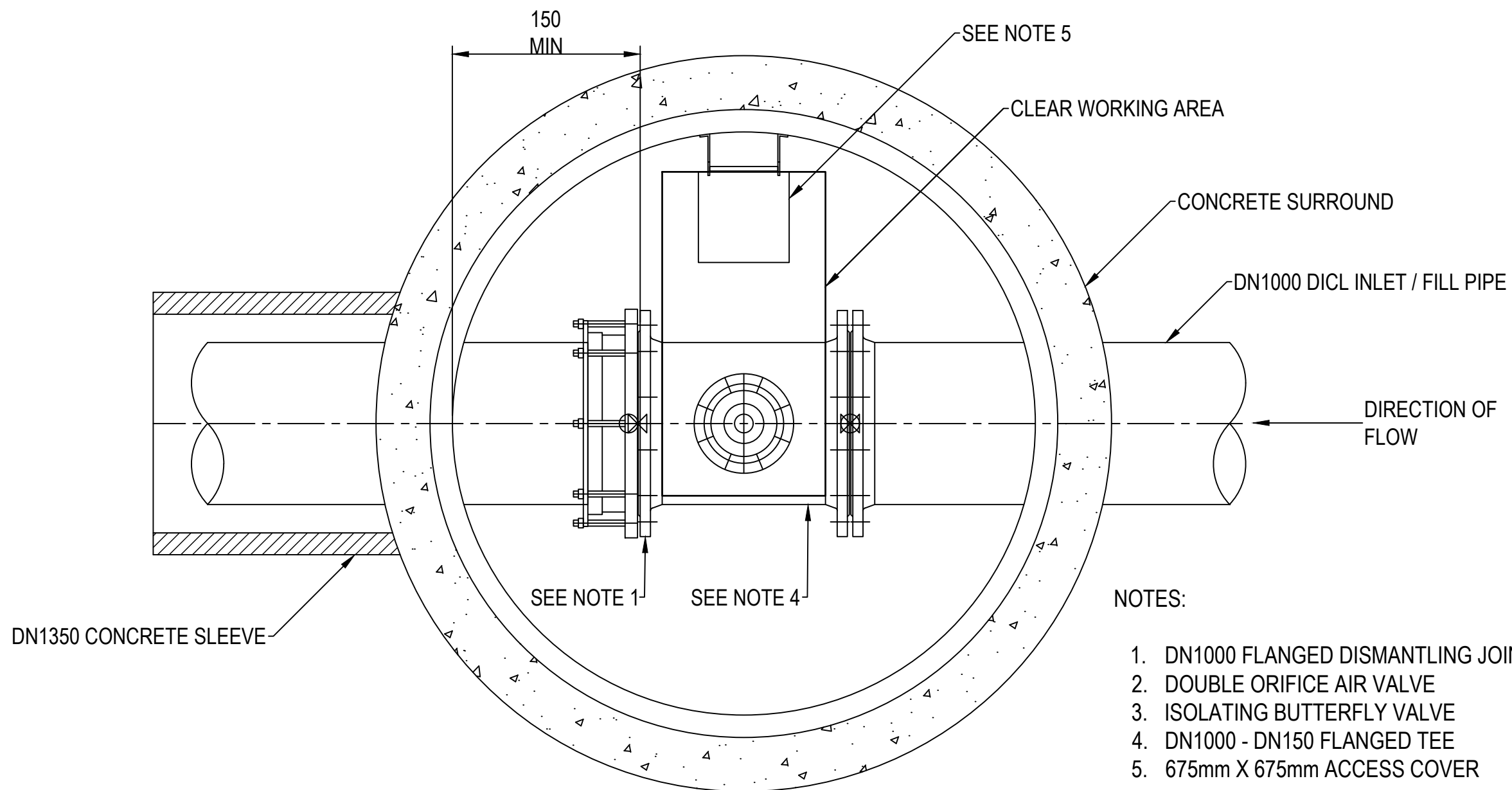
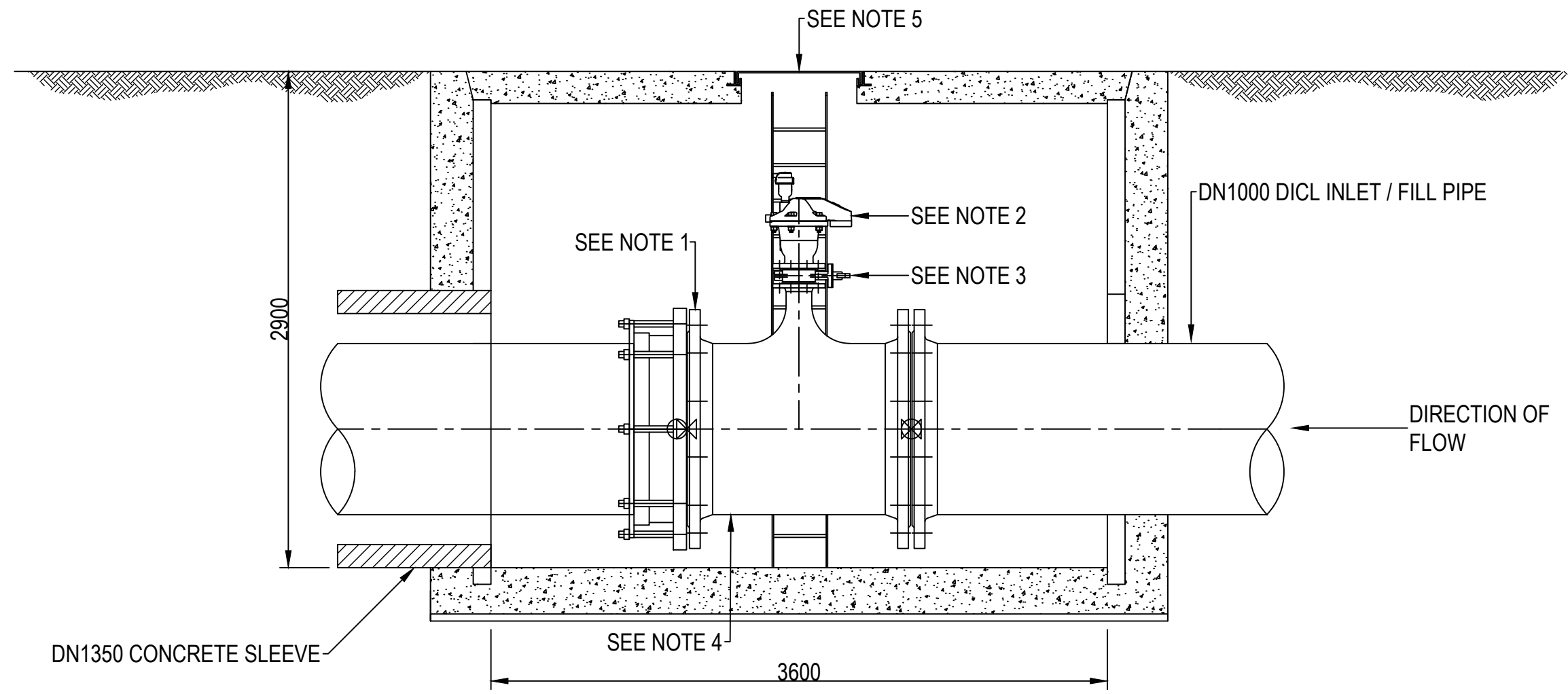
TYPICAL SLEEVE INSTALLATION
SCALE NTS



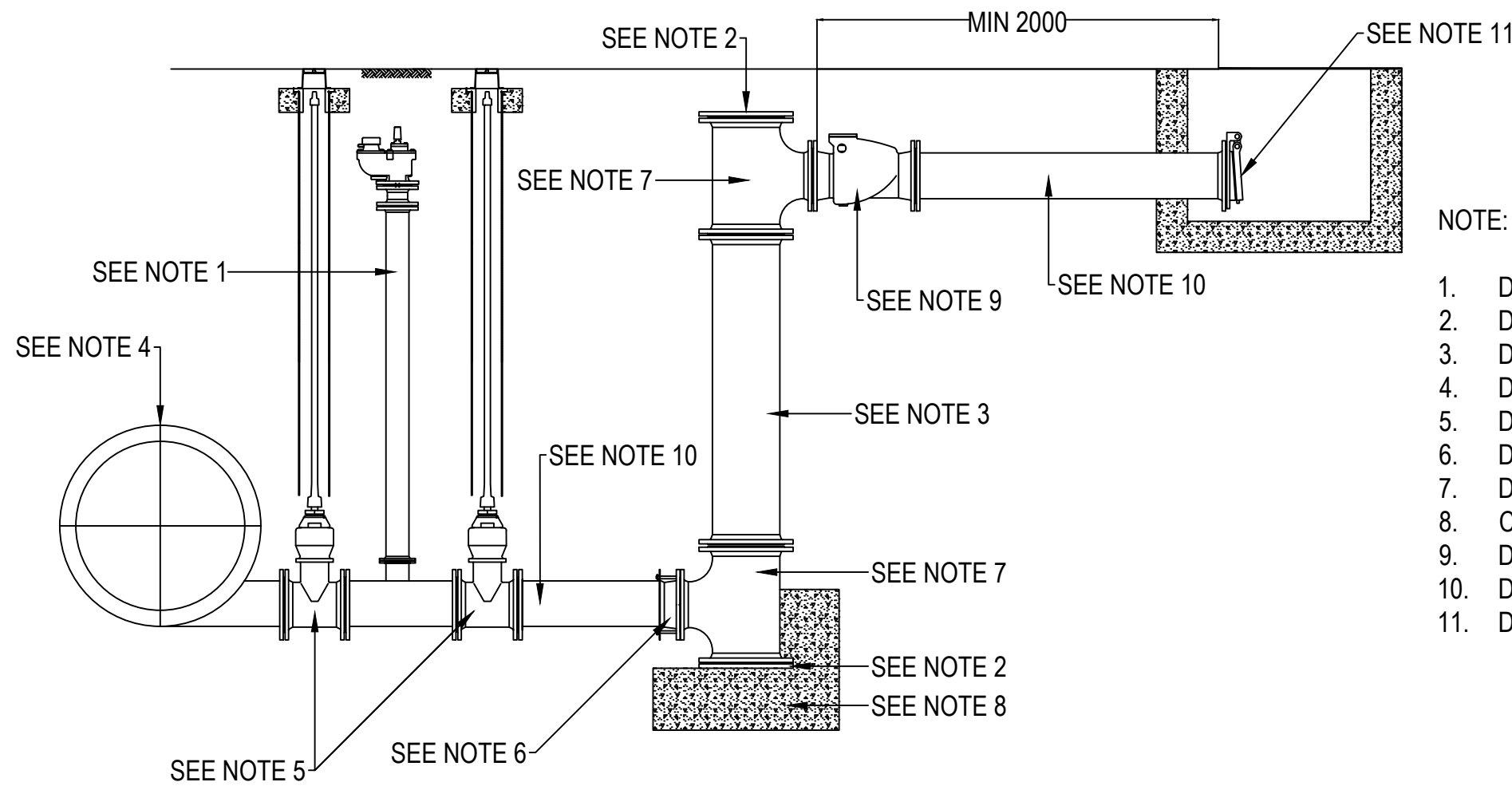
WATER MAIN SUPPORT DETAIL
SCALE NTS



CONCRETE ENCASEMENT DETAILS
SCALE NTS



ACCESS CHAMBER WITH DOUBLE ORIFICE AIR VALVE DETAILS
SCALE NTS



WASHOUT SCOUR DETAILS
SCALE NTS

GENERAL NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS NOTED OTHERWISE (UNO).
2. ALL LEVELS ARE IN METRES TO ORDINANCE DATUM UNO.
3. DO NOT SCALE FROM THIS DRAWING. IF IN DOUBT, CONSULT THE ENGINEER.
4. ALL CO-ORDINATES ARE RELATIVE TO OS NATIONAL GRID.

AIR VALVE GUIDANCE NOTES:

- A. IN FIELD, RAISED CHAMBER AND/OR FENCING MAY BE APPROPRIATE - LAND OWNER AGREEMENT REQUIRED.
- B. CHAMBER STRUCTURAL DETAILS SHALL BE CHECKED FOR EACH APPLICATION.
- C. CHAMBER SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
- D. EXTERNAL PROTECTION FOR BURIED FLANGED JOINTS, FLANGED ADAPTORS AND COUPLINGS SHALL BE TYPE P1 AS DEFINED IN CLAUSE 5.14 OF CESWI 6TH EDITION. THIS PROTECTION SHALL COVER FLANGE AND ALL NUTS, BOLTS AND THREAD.
- E. DN25 SINGLE COMPOSITE AIR VALVE WITH 1" BSP MALE THREAD MOUNTED ON QUARTER TURN ISOLATING DZR BRASS BALL VALVE AND DN80 PN16 FLANGE WITH 1" BSP MALE THREAD.
- F. DN80 BEVEL GEARED GATE VALVE.
- G. DN80 SINGLE LARGE ORIFICE AIR VALVE
- H. DN80 DOUBLE FLANGED RISER PIECE(S) IN STANDARD LENGTHS
- I. DN80 FLANGE ON SOCKET TEE
- J. DN80 DOUBLE AIR VALVE - MIN SIZE, CHECK FOR EACH APPLICATION.
- K. DN300 FLANGE ON SOCKET TEE
- L. DN400, VENTILATED DUCTILE IRON MANHOLE COVER AND FRAME 600 x 600 CLEAR OPENING. FOR COVERS IN FOOT WAY AND VERGE USE MEDIUM DUTY SLIDE OUT COVER.
- M. 600 x 600 CLEAR OPENING RECYCLED POLYMER CHAMBER SECTIONS
- N. TYPE 1 BACKFILL, WELL COMPACTED MINIMUM THICKNESS BELOW CHAMBER 300.
- O. BED AND SURROUND PIPE MINIMUM 150 ABOVE PIPE.
- P. PE BUTT WELDED IN LINE TEE KIT
- Q. VALVES SHALL BE INSTALLED SUCH THAT THEY ARE TRULY PLUMB.
- R. CHAMBER SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURERS INSTRUCTIONS
- S. CONSIDER NEED FOR VENTILATION OF CHAMBER IF APPLICABLE. USE VENTILATED COVERS OR VENT PIPE COLUMN AS APPROPRIATE FOR LOCATION AND ODOUR ASSESSMENT.
- T. GRADE AND SURFACE BOX CHAMBER TO BE SPECIFIED TO SUIT LOCATION.

WASHOUT SCOUR GUIDANCE NOTES:

- A. CHAMBER SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURERS INSTRUCTIONS.
- B. EXTERNAL PROTECTION FOR BURIED FLANGED JOINTS, FLANGE ADAPTORS AND COUPLINGS SHALL BE TYPE P1 AS DEFINED IN CLAUSE 5.14 OF CESWI 8TH EDITION. THIS PROTECTION SHALL COVER THE FLANGE AND ALL NUTS, BOLTS AND THREADS.

P02 FOR PLANNING	ND	TG	22.02.2024
P01 HWTWR SUBMISSION	NK	KN	19.01.2024
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Client **PORTSMOUTH WATER**

Project **HAVANT THICKET RESERVOIR**

Status **FOR APPROVAL**

Drawing Title **AIR VALVE, WASHOUT SCOUR AND TRENCHLESS PIPE INSTALLATION DETAILS**

Size **A1**

Drawing No. **HTR-GHD-RZ-RE-DR-C-0005**

Rev **P02**