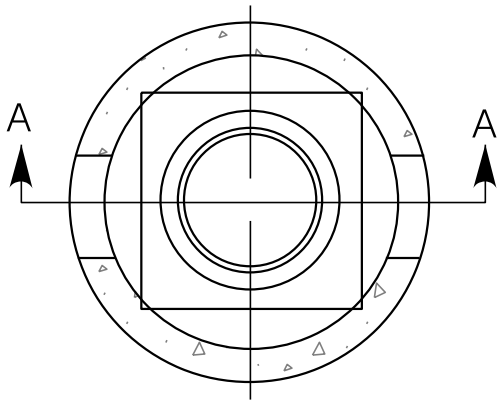
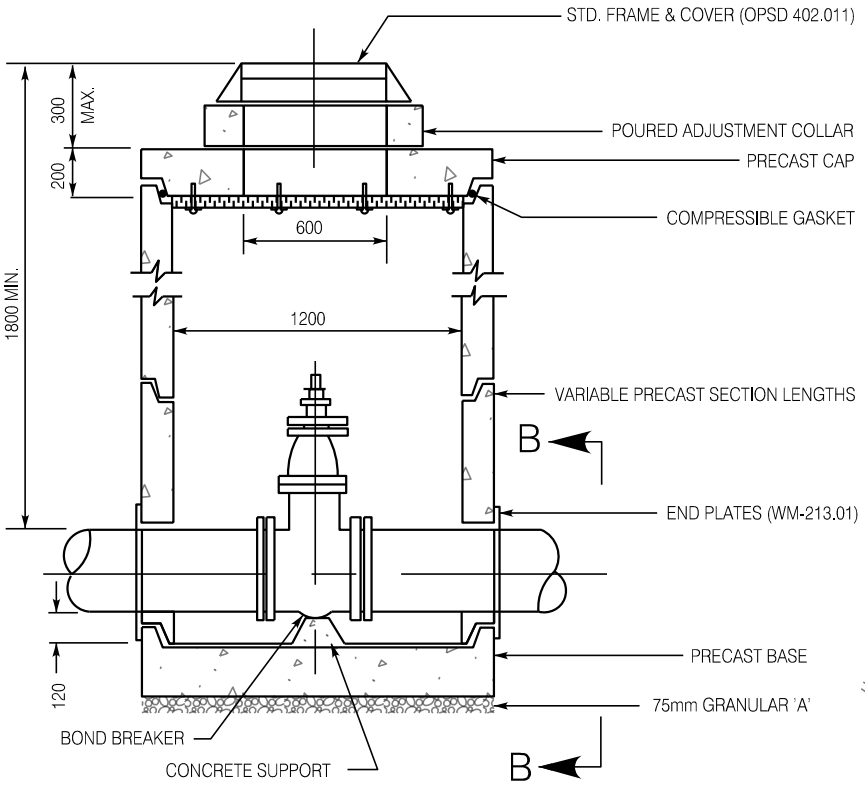


PLAN

NOTES:

1. PRECAST SECTIONS TO BE MANUFACTURED TO ASTM C-478 AND CSA SPECIFICATIONS.
2. FILL ALL JOINTS AND LIFTING HOLES (INSIDE & OUT) 15mm THICK WITH 1:3 NON-SHRINK MORTAR MIX.
3. ALL ADJUSTMENTS TO CHAMBER AND KEY COVERS SHALL BE MADE WITH POURED CONCRETE.
4. ALL CONCRETE TO BE 32 MPa., TYPE 50 CEMENT.
5. ALL REINFORCING TO BE HIGH BOND STRUCTURAL GRADE.
6. FASTEN INSULATION TO CEILING WITH 50mm DIA. WASHERS (GALVANIZED) & 6mm DIA.TAPCON CONCRETE ANCHORS @ 450mm CENTRES (REFER TO WM-236).
7. DOGHOUSE OPENING TO BE CUT OUT MIN. 50mm LARGER THAN O.D. OF WATERMAIN. PIPE TO BE WRAPPED WITH MIN. 50mm THICK OF PLAST MASTIC MATERIAL. REMAINING CAVITY TO BE GROUTED. (SEE DOGHOUSE DETAIL).
8. ALL METAL COMPONENTS INSIDE VALVE CHAMBER, INCLUDING STAINLESS STEEL NUTS AND BOLTS, SHALL HAVE A PROTECTIVE CORROSION TAPE COATING SYSTEM (PRIMER, MASTIC AND TAPE). PROTECTIVE CORROSION TAPE COATING (PRIMER, MASTIC AND TAPE) IS NOT REQUIRED ON VALVE BODIES.
9. ALL FLANGES TO BE IN ACCORDANCE WITH ANSI / AWWA.
10. CHAMBER PIPING SHALL BE DUCTILE IRON CLASS 54.
11. WATERPROOF MEMBRANE SHALL BE APPLIED TO ROOF AND ALL CHAMBER WALLS PRIOR TO BACKFILLING.
12. ALL FLANGE BOLTS TO BE STAINLESS STEEL.
13. ALL VALVES TO BE RESILIENT SEAT TO AWWA C509 FUSION BOUNDED EPOXY (FBE ANSI/NST 61 APPROVED) SHOP COAT FINISH ON INTERIOR AND EXTERIOR OF VALVE TO AWWA C550.
14. EXTERIOR AND INTERIOR OF ALL STEEL (NOT STAINLESS STEEL) PIPE SHALL BE LIQUID EPOXY COATED TO AWWA C210.

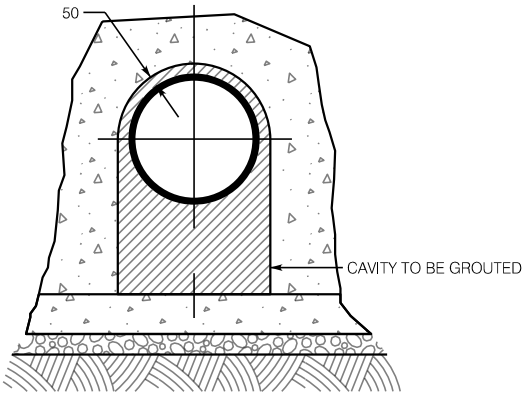


SECTION A-A

LEGEND:

DENOTES UNDISTURBED GROUND.

DENOTES CRUSHED STONE



SECTION B-B

City of Hamilton
Public Works Department

1200mm DIA. PRECAST VALVE CHAMBER FOR 400mm DIA. WATERMAINS

DIMENSIONS SHOWN ARE IN MILLIMETRES UNLESS OTHERWISE NOTED (N.T.S.)	DATE June 2025	REV No 3	FORMERLY: RWS-301	HAMILTON STD No WM-201.01