



- NOTES:**
1. PRECAST CHAMBERS AND SECTIONS SHALL BE MANUFACTURED TO ASTM C-478, CSA, MEET H20 S16 LOADING REQUIREMENTS AND IN ACCORDANCE WITH THE APPROVED WATERMAN PRODUCTS LIST.
 2. FILL ALL JOINTS AND LIFTING HOLES INSIDE & OUT 1"min thick WITH 1:3 NO-SHRINK MORTAR MIX.
 3. ALL ADJUSTMENTS TO CHAMBER AND KEY CORDS SHALL BE MADE WITH POURED CONCRETE.
 4. ALL CONCRETE TO BE 40 MPa, TYPE, 90 CEMENT.
 5. ALL REINFORCING TO BE HIGH BOND STRUCTURAL GRADE.
 6. WHEN AIR VALVE SPECIFIED, THE CHAMBER WALLS, ROOF, COVER SEED DETAIL AND CHIMNEY SHALL BE INSULATED WITH 150mm APPROX INSULATION TO A MINIMUM DENSITY OF: 1200mm BLOW TOP OF CHAMBER.
 7. FASTEN INSULATION TO CEILING WITH 50mm DIA. WASHERS (GALVANIZED), & 6mm DIA. TAPCON CONCRETE ANCHORS @ 450mm CENTRES.
 8. DETAIL TO BE CUT OUT MIN. 50mm LARGER THAN O.D. OF PROPOSED WATERMAN. PIPE TO BE WRAPPED WITH MIN. 50mm THICK OF DENSE PLAST MASTIC, REMAINING VACUUM TO BE GROUTED. (SEE DOUGHOUT DETAIL).
 9. ALL FLANGES TO BE IN ACCORDANCE WITH ANSI /AWWA
 10. ALL METAL COMPONENTS INSIDE VALVE CHAMBER INCLUDING STAINLESS STEEL NUTS AND BOLTS, SHALL HAVE A PROTECTIVE COATING (PRIMER, STAINLESS STEEL PRIMER, AND TAPE) TO PREVENT VALVE PROTECTIVE COATING TAPE COATING (PRIMER, STAINLESS STEEL PRIMER AND TAPE) IS NOT REQUIRED ON VALVE BODIES.
 11. SEE CONTRACT DRAWINGS FOR LOCATION / ORIENTATION OF 50mm AIR ROOF OR 100mm BLOW-OFF IN CHAMBER.
 12. WATERPROOF MEMBRANE SHALL BE APPLIED TO ROOF AND ALL CHAMBER WALLS PRIOR TO BACKFILLING.
 14. APPROVED RESTRAINED COUPLING SHALL BE IN ACCORDANCE WITH THE APPROVED WATERMAN PRODUCTS LIST.

 PRECAST CONCRETE
 POURED IN PLACE CONCRETE
 GROUT

City of Hamilton
Public Works Department

2400mm PRECAST VALVE CHAMBER FOR 400mm DIA. CONCRETE OR DUCTILE IRON PIPE
WITH 50mm AIR VALVE & 100mm BLOW-OFF

DIMENSIONS SHOWN ARE IN MILLIMETRES UNLESS OTHERWISE NOTED 1:25	DATE JUNE 2019	REV No 3	FORMERLY RWS-323	HAMILTON STD No WM-230
--	-------------------	-------------	---------------------	---------------------------