

1. THE CHAMBER SHALL BE SIZED TO ACCOMMODATE THE REQUIRED PIPING AND VALVES AND ALLOW TOWN STAFF TO ACCESS FOR MAINTENANCE AND REPLACEMENT. AN ALLOWANCE FOR A MINIMUM INSIDE HEIGHT OF 2.1m AND MINIMUM OF 500mm AND MAXIMUM 800mm CLEARANCE BETWEEN THE INVERT OF THE MAIN AND THE CHAMBER FLOOR SHALL BE PROVIDED.
2. THE PIPING / VALVING SHALL HAVE A MINIMUM HORIZONTAL CLEARANCE FROM THE CHAMBER WALL OF 600mm ALONG ONE SIDE AND 1000mm ALONG THE OPPOSITE SIDE.
3. THE VALVE CHAMBER OPENING AND LID ARE TO BE SIZED TO ALLOW FOR REPLACEMENT OF ALL EQUIPMENT. THE MAIN AND VALVE ARE TO BE LOCATED SO THAT THEY DO NOT IMPEDE ACCESS/EGRESS TO THE CHAMBER.
4. THE MINIMUM COVER OVER THE CHAMBER SHALL BE 300mm.
5. THE CHAMBER S TO BE DESIGNED WITH ADEQUATE BALLAST AND THRUST RESTRAINT.
6. ALL CHAMBERS SHALL BE DESIGNED AND VERIFIED TO BE WATERPROOF.
7. ADEQUATE VENTING IS REQUIRED. VENT PIPES ARE TO BE LOCATED A MINIMUM OF 1.7m FROM THE EDGE OF THE TRAVELED PORTION OF ANY ROADWAY.
9. THE CHAMBER SHALL BE PROTECTED FROM FROST PENETRATION AND AT MINIMUM WILL INCLUDE INSULATION EXTENDING TO DEPTH BELOW FROST DEPTH (1.7m) AND INSTALLATION OF FROST STRAPS IN ACCORDANCE WITH OPSD 701.100.
10. PROVIDE SPECIFIED WATERPROOFING SYSTEM OF PRODUCTS ON ALL EXTERIOR BURIED CONCRETE SURFACES TO MANUFACTURER'S SPECIFICATIONS, INCLUDING ON UNDERSIDE OF STRUCTURE. FROST STRAPS, PENETRATIONS, PROTRUSIONS, CORES TO BE INSTALLED POST FLUSH INSTALLATION OF THE WATERPROOFING MEMBRANE. COVER ALL CORES, FROST STRAPS, PENETRATIONS, CONDUIT WITH WATERPROOFING MEMBRANE LAYER TO MANUFACTURER'S SPECIFICATIONS OR ALTERNATIVE PRODUCT IF APPROVED IN WRITING BY THE ENGINEER OR THE TOWN OF THE BLUE MOUNTAINS.
11. WATERMAIN CONNECTIONS TO THE CHAMBER SHALL BE WATERTIGHT. CONNECTION WILL REQUIRE A CORED PIPE OPENING. CORED OPENING SHALL NOT BE WITHIN 150mm OF STRUCTURE RISER SECTION JOINT. PARGING OF A FLEXIBLE PIPE IS NOT CONSIDERED WATERTIGHT CONNECTION AND SHALL BE CONNECTED USING APPROVED WATERTIGHT MECHANICAL CONNECTORS (SUCH AS MODULAR SEALING SYSTEM) WITH PIPE SUPPORT IN ACCORDANCE TO OPSD 708.020.
12. THE WATERMAIN THROUGH THE CHAMBER SHALL BE CONSTRUCTED OF DUCTILE IRON PIPE AND BE ADEQUATELY SUPPORTED AND RESTRAINED. TRANSITION COUPLING TO BE APPROVED BY THE TOWN.
13. THE CHAMBER SHALL HAVE A 450X450X300 SUMP WITH STORM SERVICE TO STORM SEWER (WHERE AVAILABLE) INCLUDING BACKWATER.
14. FOR CHAMBERS THAT MAY REQUIRE THE REMOVAL OF EQUIPMENT (VALVES OR COMPONENTS) GREATER THAN 22.5 KG IN MASS, PROVIDE A LIFTING DAVIT SOCKET LOCATED WITHIN 1m OF ACCESS HATCH IN A LOCATION WHERE IT IS NOT A TRIPPING HAZARD FOR ACCESS AND WHERE THE OPEN HATCH WILL NOT INTERFERE WITH DAVIT SWING RADIUS.



Town Of The Blue Mountains Standard Drawings

VALVE CHAMBER - GENERAL NOTES

Date

JAN 2023

Scale

N.T.S.

TOTBM STD.

4.7.5.C