150 MIN / 450 MAX FROM FINISHED GRADE TO TOP OF CONE OR SLAB TOP. 1 NO. 1" GRADE RING PERMITTED PER MANHOLE ASSEMBLY.

FRAME & COVER PATTERN TO BE APPROVED

CONICAL TOP/SLAB TOP AS DIRECTED BY ENGINEER

PRECAST REINFORCED CONCRETE BARREL

POLYPROPYLENE STEEL REINFORCED OR 20# GALVANIZED STEEL CAST IN WALL OF BARREL SPACED AT 400

50mm FROST COVER SUPPORTED WITH ALUMINUM BRACKETS

BOTTOM BARREL C/W 50mm URETHANE INS. & MASTIC COATING (12000 x 1200 HIGH)

150mm GATE VALVE ON UPSTREAM SIDE OF CLEANOUT (PLUG VALVES)

F x F x F TEE C/W BLIND FLANGE (CLEANOUT)

100mm STYROFOAM INSULATION 1.8m SQUARE BELOW M.H BASE (2-50mm LAYERS/JOINTS STAGGERED)

600mm SUMP

REMOVABLE WORKING PLATFORM

NOTES:
1. ALL PRECAST MANHOLES MUST CONFORM TO ASTM C478.
2. POURED IN PLACE CONCRETE SHALL HAVE 28 DAYS COMpressive STRENGTH 27.5 MPa. BENCHING TO UTILIZE TYPE 50 CEMENT.
3. AN O-RING RUBBER GASKET OR butyl RUBBER SEALANT (OR RESPECTIVE APPROVED ALTERNATE) IS TO BE INSTALLED AT EACH JOINT IN ACCORDANCE WITH MANUFACTURER’S RECOMMENDATIONS.
4. ALL BARREL JOINTS ARE TO BE MORTARED ON THE OUTSIDE.
5. FORM FLOW THROUGH IN PARtially SET CONCRETE AND TROWEL SMOOTH.
6. ALL DIMENSIONS GIVEN IN MILLIometRES.
7. MAX. DIST FROM RIM TO TOP RUNG IS 700mm.
8. BACKFILL MANHOLE WITH SELECT NATIVE MATERIAL OR IMPORTED GRANULAR MATERIAL.
9. SLAB TOPS SHALL BE USED WHEN THE DISTANCE FROM THE BOTTOM OF THE RINGS TO THE MH BASE IS LESS THAN 2.2 m.
10. SAFETY PLATFORM REQUIRED IF MANHOLE OVER 6m DEEP.
11. IN SITUATIONS WHERE GRADE RINGS EXCEED MAX. 450mm, A BARREL SECTION IS TO BE USED.
12. MAXIMUM DISTANCE FROM CLEANOUT TO UPSTREAM VALVE TO BE 5.0m.
13. FROST LID TO BE LOCATED ABOVE FORCemain CLEANOUT.