



- NOTES.**
1. ALL STRUCTURAL CONCRETE SHALL HAVE A MINIMUM CONCRETE STRENGTH OF C28/35.
  2. ALL CONCRETE HAUNCHING AND BENCHING SHALL HAVE A MINIMUM STRENGTH OF C20/25.
  3. ALL CONCRETE COVER TO REINFORCING BARS SHALL BE MIN. 50mm.
  4. MANHOLES EXCEEDING 6.0m DEEP TO INVERT, SHALL BE DESIGNED SEPARATELY.
  5. THE ENDS OF ALL PIPES AT MANHOLE WALLS SHALL BE GROUND SMOOTH.

- AMENDMENTS**
1. CAST IRON FRAME AND COVER TO MANHOLE FRAME AND COVER.
  2. MIN 2.5mm THICK HDPE LINING ADDED TO MANHOLE WALLS WITH INTEGRAL ANCHOR STUDS ALL ROUND. 1.5mm THICK PVC REMOVED.
  3. HEIGHT OF BRICKWALL TO EXCLUDE MANHOLE FRAME THICKNESS.
  4. DETAILS OF MANHOLE FRAME AND COVER ON ROAD/PAVEMENT AND ON TURF UPDATED.
  5. HEIGHT OF BRICKWALL TO EXCLUDE MANHOLE FRAME THICKNESS.
  6. SUITABLE PILES AT CENTRES & LENGTHS AT ALL MANHOLE SECTIONS ADDED.
  7. CONCRETE SURROUND TO CONCRETE HAUNCHING.
  8. WATERSTOP DETAIL ADDED.
  9. MAX ALLOWABLE PIPE DIAMETER AND VELOCITY ADDED FOR BACKDROP AND TUMBLING BAY DETAILS.
  10. MINIMUM 300mm CONCRETE HAUNCHING WITH CAST IN OR CHEMICALLY ANCHORED DOWEL BARS WRAP ROUND THE HAUNCHING ADDED.
  11. PLATFORM ORIENTATION CHANGED WITH REFERENCE TO THE FLOW DIRECTION.
  12. WIDTH OF BENCHING CHANGED FROM 150mm TO 400mm. INTERNAL WIDTH OF MANHOLE (SECTION B-B) FROM (D-300 TO D-800).
  13. STAINLESS STEEL GRADE (SS316) ADDED.
  14. NOTES REVISED.
  15. PIPE SIZE IN TITLE REVISED.
  16. SECTION A-A & B-B MANHOLE BRICK ARRANGEMENT REVISED.

**SCALES**  
1 : 20  
UNLESS  
OTHERWISE  
STATED  
( A1 )

**STANDARD MANHOLE FOR SEWERS 1000mm DIA. AND ABOVE**

[ ORIGINAL BORDER SIZE 810mm X 565mm ]