

PERMISSION TO CARRY OUT RAISING AND LOWERING OF MANHOLE

- 1) QP/Contractor shall submit Form B to PUB to obtain permission to work in the public sewerage system.
- 2) Please refer to the standard drawings for sewerage works from PUB's website (<https://www.pub.gov.sg/compliance/industry/drawings>).
 - a) The proposed raising and lowering of manholes shall be in accordance with standard drawing PUB/WRN/STD/001B, in particular the height of engineering brick wall as illustrated in Figure 1.
 - b) In the event where the raising of manhole causes the depth of the raised manhole(s) to exceed more than 6m, intermediate platform(s) shall be installed in accordance with standard drawing PUB/WRN/STD/006B.
 - c) The proposed raising and lowering of manhole(s) sited on slope shall be in accordance with standard drawing PUB/WRN/STD/011B.
 - d) For manhole(s) sited on road, manhole frameset must comply with SS30 heavy duty cover. Please refer to standard drawing PUB/WRN/STD/015A.
 - e) For manhole(s) sited on turf/footpath, manhole frameset must comply with SS30 medium duty cover. Please refer to standard drawing PUB/WRN/STD/016A.
 - f) QP/Contractor shall also ensure that the raising/lowering of manhole(s) are in accordance with the requirements in the latest Code of Practice on Sewerage and Sanitary Works and any other relevant standard drawings.
- 3) QP/Contractor shall ensure that the flow of used water in the manhole is not affected, and any construction debris does not end up in the sewer.
- 4) Manhole on cycling path shall be SS30 heavy duty manhole cover and painted over with coloured high strength coating system RAL1003 or RAL3001 with adequate anti-slip resistance suitable for outdoor use.
- 5) QP/Contractor shall ensure that surrounding manhole compound level is completed (reinstate turf/road premix).
- 6) After completion of raising or lowering works, QP/Contractor shall provide a report indicating the new level and photos of the manhole. Please liaise with Nabil at [Muhd Nabil MOHD RAUS@pub.gov.sg](mailto:Muhd_Nabil_MOHD_RAUS@pub.gov.sg) and Aliff at [Aliff Sufian OSMAN MUNAWAR@pub.gov.sg](mailto:Aliff_Sufian_OSMAN_MUNAWAR@pub.gov.sg) when the works are completed.
- 7) Should there be any non-compliance, QP/Contractor shall rectify the non-compliance till satisfactory.

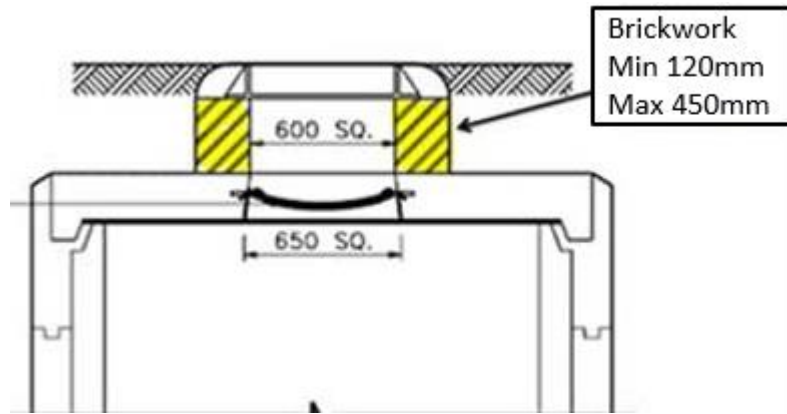


Figure 1: Brick wall dimension - minimum 120mm or maximum 450mm

Sample report as follows:

Manhole condition before modification works



Figure 2: Existing Manhole condition (Far view)



Figure 3: Existing Manhole condition (Close view)

Manhole condition during modification works



Figure 4: Removal of top slab - If applicable



Figure 5: Breaking existing chambers - If applicable



Figure 6: New top slab



Figure 7: Heavy or medium duty cover installed



Figure 8: Casting of new engineering brickwork

Manhole condition after modification works



Figure 9: New brickwork measurement



Figure 10: Manhole site condition (Close view)



Figure 11: Manhole site condition (Far view)



Figure 12: Channel condition

Report should contain the following:

1. Before modification
2. During modification
3. After modification