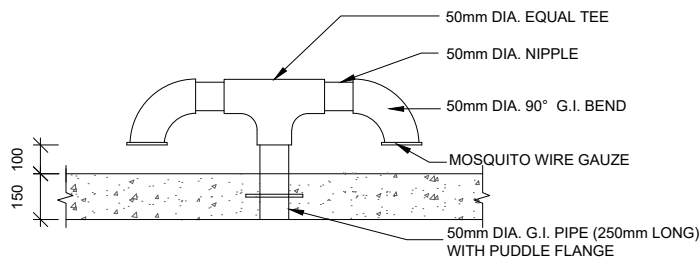
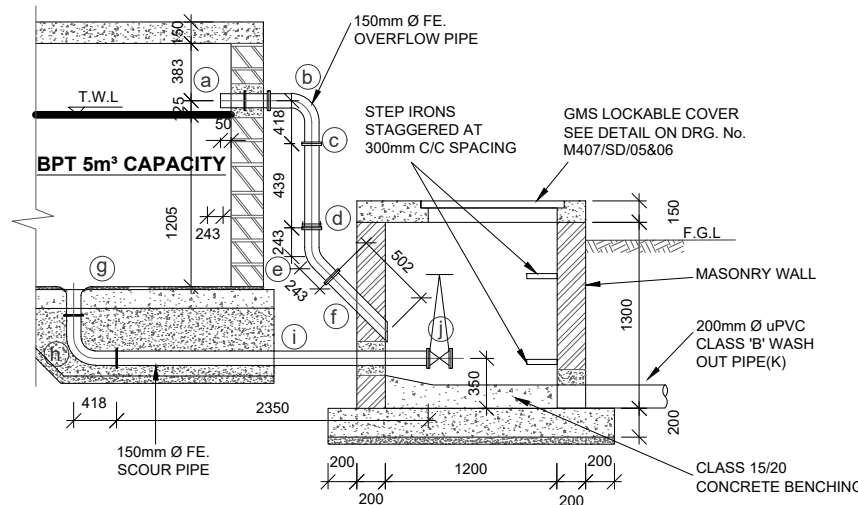


SECTION A-A
INLET & OUTLET PIPEWORK DETAILS
SCALE 1 : 50



VENT PIPE DETAIL
N.T.S.



SECTION B-B
OVERFLOW & WASHOUT PIPEWORK DETAILS
SCALE 1 : 50

- BPT No. 3**
OVERFLOW AND SCOUR PIPEWORK DETAILS
APPROVED LINED FERROUS PIPES AND FITTINGS
- OVERFLOW PIPE WORK**
- Ⓐ 100mm DIA. FLANGED SPIGOT PIPE 425mm LONG WITH A PUDDLE FLANGE AT 162.5mm FROM THE SPIGOT END.....1 Nr.
 - Ⓑ 100mm DIA. ALL FLANGED 90° BEND1 Nr.
 - Ⓒ 100mm DIA. FLANGED SPIGOT PIPE 439mm LONG (CUT TO SUIT ON SITE).....1 Nr.
 - Ⓓ 100mm DIA. FLANGE ADAPTOR1 Nr.
 - Ⓔ 100mm DIA. ALL FLANGED 45° BEND1 Nr.
 - Ⓕ 100mm DIA. FLANGED SPIGOT PIPE 502mm LONG WITH A SPIGOT END BEVELLED (CUT TO SUIT ON SITE).....1 Nr.
- WASHOUT/SCOUR PIPE WORK**
- Ⓖ 100mm DIA. FLANGED BELLMOUTH1 Nr.
 - Ⓗ 100mm DIA. ALL FLANGED 90° BEND1 Nr.
 - Ⓘ 100mm DIA. DOUBLE FLANGED PIPE 2350mm LONG1 Nr.
 - Ⓛ 100mm DIA. ALL FLANGED GATE VALVE TO EURO 20 SERIES, TYPE 23 OR APPROVED EQUIVALENT.....1 Nr.
 - Ⓚ 100mm DIA. uPVC CLASS 'B' PIPE 10000mm LONG.1 Nr.

- BPT No. 3**
INLET PIPEWORK DETAILS
APPROVED LINED FERROUS PIPES AND FITTINGS
- ① 100mm DIA. COUPLING1 Nr.
 - ② 100mm DIA. FLANGED SPIGOT PIPE 1200mm LONG2 Nr.
 - ③ 100mm DIA. ALL FLANGED GATE VALVE1 Nr.
 - ④ 100mm DIA. FLANGE ADAPTOR2 Nr.
 - ⑤ 100mm DIA. ALL FLANGED 90° BEND2 Nr.
 - ⑥ 100mm DIA. FLANGED SPIGOT PIPE 814mm LONG (CUT TO SUIT ON SITE).....1 Nr.
 - ⑦ 100mm DIA. DOUBLE FLANGED PIPE 575mm LONG WITH A PUDDLE FLANGE AT 262mm FROM ONE END.....1 Nr.
 - ⑧ 100mm DIA. ALL FLANGED FLOAT VALVE TO SERIES 1042 BIWATER CATALOGUE OR APPROVED EQUIVALENT.....1 Nr.
 - ⑨ 100mm DIA. FLANGED SPIGOT FERROUS PIPE 739mm LONG.....1 Nr.

- BPT No. 3**
OUTLET PIPEWORK DETAILS
APPROVED LINED FERROUS PIPES AND FITTINGS
- Ⓐ 100mm DIA. FLANGED BELLMOUTH1 Nr.
 - Ⓑ 100mm DIA. ALL FLANGED 90° BEND2 Nr.
 - Ⓒ 100mm DIA. FLANGED SPIGOT PIPE 1950mm LONG (CUT TO SUIT ON SITE).....1 Nr.
 - Ⓓ 100mm DIA. FLANGE ADAPTOR2 Nr.
 - Ⓔ 100mm DIA. ALL FLANGED GATE VALVE1 Nr.
 - Ⓕ 100mm DIA. FLANGED SPIGOT PIPE 1200mm LONG1 Nr.

NOTES

- FOR DETAILS OF SITE LAYOUT OF THE BREAK PRESSURE TANKS, REFER TO DRG. Nos. M407/CG/BPT-3/01
- FOR DETAILS OF ALL PIPE CONNECTIONS AND FITTINGS, REFER DRG. No.M407/CG/BPT-3/03
- SAFE GROUND BEARING PRESSURE HAS BEEN ASSUMED AT 80KN/m² (3/4 TON/S.FT) AT A DEPTH OF 0.75m BELOW EXISTING GROUND LEVEL. IF REQUISITE BEARING STRATA IS NOT OBTAINED AT THIS LEVEL, THE WEAKER MATERIAL IS TO BE EXCAVATED DOWN TO APPROVED BOTTOM AND THE LEVEL MADE UP IN CLASS 10 MASS CONCRETE.
- CONCRETE MIXES, BLINDING CONCRETE TO UNDERSIDE OF TANK TO BE MINIMUM 50mm THICK IN CLASS 15/20 NOMINAL MIX
FLOOR, COLUMNS, ROOF SLAB AND BEAMS CONCRETE TO BE NOMINAL CLASS 25/20
- NO BACK FILLING IS TO BE ALLOWED OUTSIDE THE MASS CONCRETE LAID TO PIPES RUNNING BELOW THE TANK FLOOR. THE TRENCHES IN WHICH THESE PIPES ARE LAID MUST BE FILLED BACK WITH MASS CONCRETE CLASS 15/20
- ROOF SLAB TO BE CAST SLOPING OUTSIDE
- ALL DIMENSIONS IN mm UNLESS SPECIFIED.
- ONLY FIGURED DIMENSIONS TO BE TAKEN FROM THIS DRAWING
- WALL SHALL EITHER BE DRESSED STONES OR PRECAST CONCRETE BLOCKS. EACH BLOCK SHALL BE 225 WIDE x 150 DEEP. ALL BLOCKS TO BE SOAKED IN WATER FOR 24 HOURS BEFORE BUILT INTO WALL. JOINTS SHALL BE IN 1:3 CEMENT / SAND MORTAR NOT LESS THAN 20mm THICK. IF WALL IS CONSTRUCTED WITH CONCRETE BLOCKS THEN THE OUTSIDE OF THE WALL SHALL ALSO BE PLASTERED.
- REINFORCEMENT: 'M' DENOTES MILD STEEL ROUND BARS & 'T' DENOTES HIGH TENSILE STEEL BARS TO B.S. 4449.

ABBREVIATIONS

- T.W.L - TOP WATER LEVEL
- G.L - GROUND LEVEL
- R.C - REINFORCED CONCRETE
- FE. - FERROUS

REVISIONS	SIGN	DATE	APPROVED
BY			
CHECKED			
BY			
CHECKED			
BY			
CHECKED			
BY			
CHECKED			

EMPLOYER: **THE CHIEF EXECUTIVE OFFICER**
TANA WATER WORKS
DEVELOPMENT AGENCY
P.O BOX 1292 - 10100,
NYERI, KENYA

CHIEF MANAGER, TECHNICAL SERVICES
TANA WATER WORKS
DEVELOPMENT AGENCY
P.O BOX 1292 - 10100,
NYERI, KENYA

PROJECT TITLE:
REHABILITATION AND EXTENSION OF GURAGA WATER PROJECT

DRAWING TITLE:
BREAK PRESSURE TANK
(CAPACITY 5m³)
PIPEWORK DETAILS

Designed by: K.N.G Drawn by: A.M.M
Checked by: J.M.M Approved by: D.N.M
1:25 Date: JUNE 2023

GUR/BPT/01