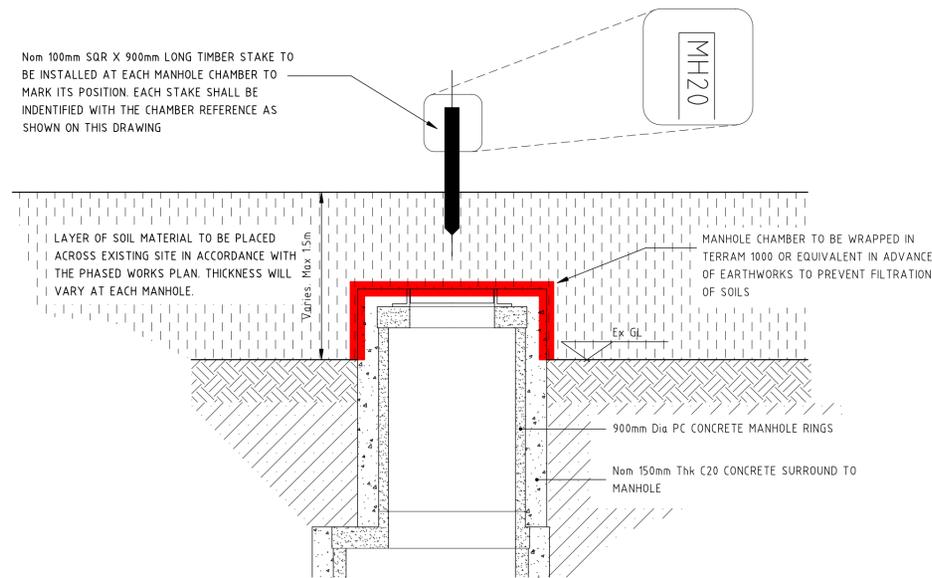


TYPICAL DETAIL OF EXISTING MANHOLE CHAMBERS



PROPOSED PROTECTION

PROTECTION TO EXISTING MANHOLE CHAMBERS (29No) (nts)

PROTECTION TO EXISTING MANHOLE CHAMBERS

SEE DRAWING NUMBER MWDA.530-101-001 FOR LOCATION OF MANHOLE CHAMBERS

THE PERIMETER OF THE SITE, IMMEDIATELY INSIDE THE LINE OF MONITORING BOREHOLES CONTAINS BOTH A TRAMMEL AND CUT-OFF DRAIN

A TOTAL OF 29 No MANHOLES ARE LOCATED ALONG THE COMBINED LENGTH OF BOTH TRAMMEL AND CUT OFF DRAIN

THE CONTRACTOR SHALL MAKE PROVISION TO PROTECT EACH CHAMBER FROM DAMAGE DURING THE RESTORATION WORKS, ALONG WITH PROTECTING THEM FROM INGRESS SOILS.

IN ADVANCE OF PLACING SOILS IN THE IMMEDIATE LOCATION OF EACH MANHOLE CHAMBER, EACH SHALL BE WRAPPED IN FABRIC SUITABLE TO PREVENT THE INGRESS OF SOILS INTO THE MANHOLE CHAMBER.

IMMEDIATELY FOLLOWING THE PLACING OF SOILS OVER THE CHAMBER, A TIMBER STAKE SHALL BE DRIVEN INTO THE GROUND OVER THE MANHOLE TO IDENTIFY ITS LOCATION.

EACH STAKE SHALL HAVE THE REFERENCE NUMBER OF THE INDIVIDUAL MANHOLE MARKED UPON IT, ALONG WITH AN INDICATION OF THE DEPTH BELOW GROUND LEVEL. SEE DRAWING NUMBERED MWDA.530-101-001 FOR MANHOLE REFERENCES.

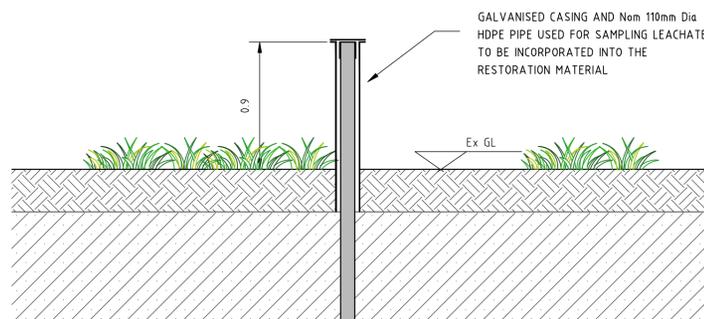
FOLLOWING THE COMPLETION OF EACH PHASE OF WORKS, MWDA WILL ARRANGE FOR THE RAISING OF THE CHAMBER COVERS BY OTHERS.

NOTES

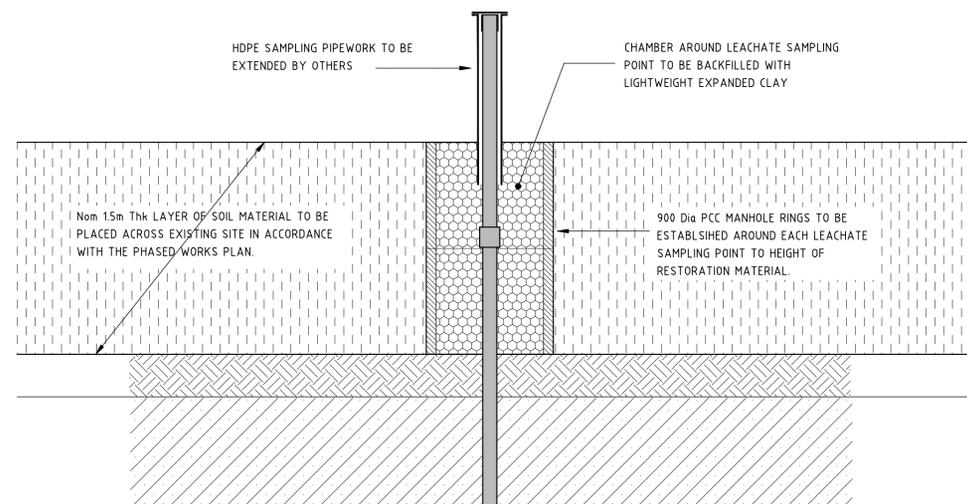
1 THIS DRAWING SHALL BE READ IN CONJUNCTION WITH:

- MWDA.530-101-001 EXISTING SITE LAYOUT AND INFRASTRUCTURE
- MWDA.530-101-002 PROPOSED FINAL CONTOURS
- MWDA.530-101-003 PROPOSED PHASING OF WORKS
- MWDA.530-101-004 PROTECTION TO EXISTING INFRASTRUCTURE

2 ALL DIMENSIONS IN METRES



EXISTING LEACHATE SAMPLING POINT



PROPOSED MODIFICATIONS

ALTERATIONS TO EXISTING LEACHATE SAMPLING POINT (5No) (nts)

PROTECTION TO EXISTING LEACHATE MONITORING POINTS

SEE DRAWING NUMBERED MWDA.530-101-001 FOR LOCATION LEACHATE MONITORING POINTS

THE CROWN OF THE LANDFILL SITE CONTAINS 5 No LEACHATE MONITORING POINTS IN THE FORM OF A Nom 110mm HDPE PIPE PROJECTING APPROX 900mm OUT OF THE GROUND.

THE CONTRACTOR SHALL PROTECT THE PIPE WITH THE PROVISION OF A Nom 900 Dia 750mm HIGH PCC MANHOLE RING PLACED AROUND THE PIPE. EACH PCC RING SHALL BE BACKFILLED WITH LIGHTWEIGHT EXPANDED CLAY AGGREGATE SUCH AS 'LECA' OR SIMILAR APPROVED.

THE PCC RINGS SHALL BE EXTENDED AS LEVELS DICTATE IN ORDER TO PROTECT THE LEACHATE MONITORING PIPE UPTO THE NEW FINISHED GROUND LEVEL.

MWDA WILL ARRANGE FOR THE LEACHATE PIPE TO BE EXTENDED BY OTHERS AS THE RINGS ARE PLACED AND EXTENDED

Rev. Amendment Date

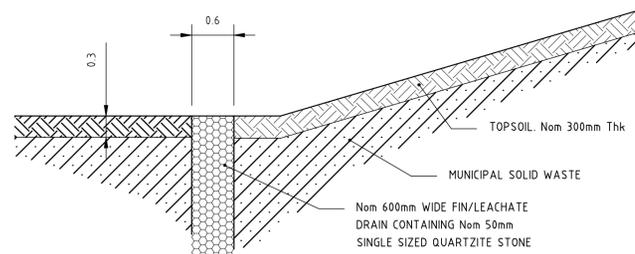
Site
FOUL LANE FORMER LANDFILL SITE

Title
RESTORATION WORKS
PROTECTION TO EXISTING INFRASTRUCTURE

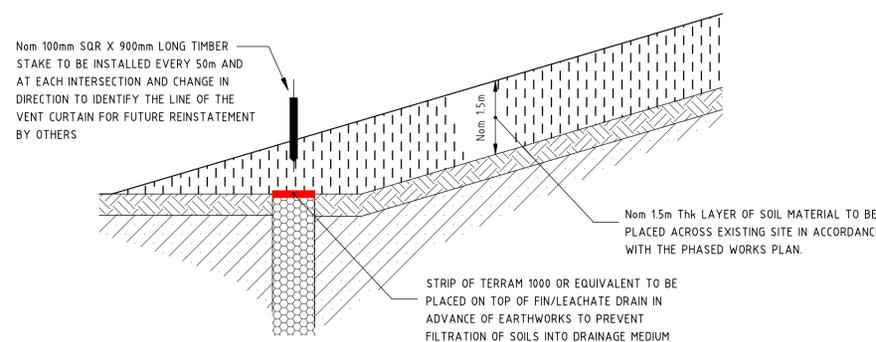


Dwg. No. Rev.
A1 MWDA.530-101-004 .

Drawn ASB Scale NTS Date JULY 2016



TYPICAL SECTION THROUGH EXISTING FIN/LEACHATE DRAIN



PROPOSED PROTECTION

PROTECTION TO EXISTING FIN/LEACHATE DRAIN (nts)

PROTECTION TO EXISTING FIN/LEACHATE DRAIN

SEE DRAWING NUMBERED MWDA.530-101-001 FOR LOCATION OF DRAIN

A COMBINATION FIN/LEACHATE DRAIN ENCOMPASSES THE SITE, WITH A TOTAL LENGTH OF APPROX 1400 LINER METERS

THE DRAIN ALSO ACTS AS A VENT CURTAIN, ALLOWING THE PASSIVE VENTING OF LANDFILL GASES INTO THE ATMOSPHERE

IN ORDER THAT CURTAIN CAN BE REESTABLISHED AFTER THE COMPLETION OF EACH PHASE OF THE WORKS, THE CONTRACTOR SHALL INSTALL A PERMEABLE MEMBRANE OVER THE TOP OF THE CURTAIN TO PREVENT THE INGRESS OF SOILS INTO THE CURTAIN. STAKES SHALL BE DRIVEN INTO THE GROUND IMMEDIATELY AFTER THE PLACING OF SOILS TO INDICATE THE CURTAINS LOCATION.

STAKES SHALL BE DRIVEN AT 50m INTERVALS, AND AT THE END OF EACH LENGTH, ALONG WITH ANY CHANGE IN DIRECTION, AND AT EACH INTERSECTION.

MWDA WILL ARRANGE FOR THE REESTABLISHMENT OF THE CURTAIN BY OTHERS FOLLOWING THE COMPLETION OF EACH PHASE OF THE WORKS.