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Fig. 1. Stratigraphic profile of typical stagnant bioretention facilities adjacent to municipal roads in loess area

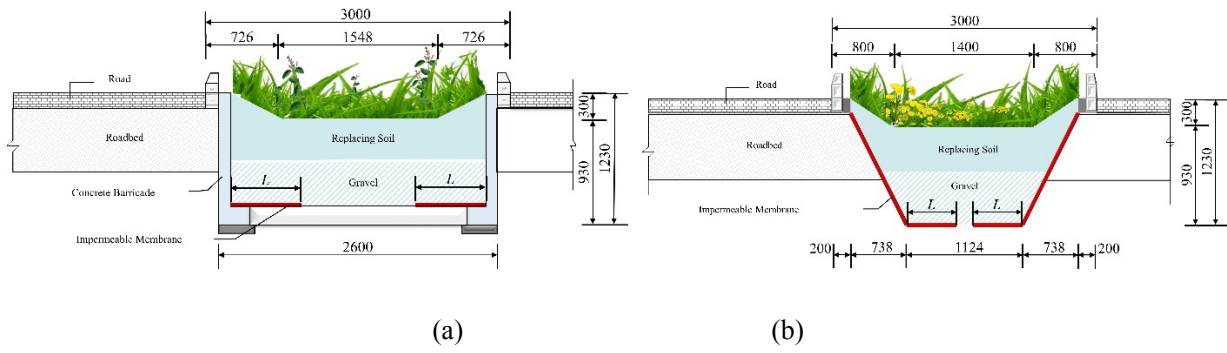


Fig. 2. Schematic diagram of typical retention bioretention facilities in loess area: (a) Bioretention I; (b)

Bioretention II

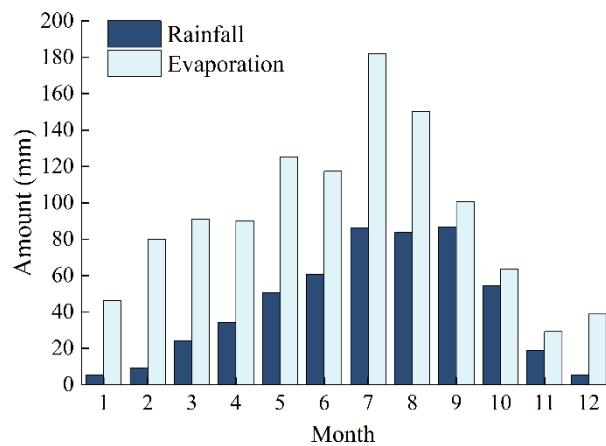


Fig. 3. Average monthly rainfall and evaporation in Xixian New Area, China (2018)

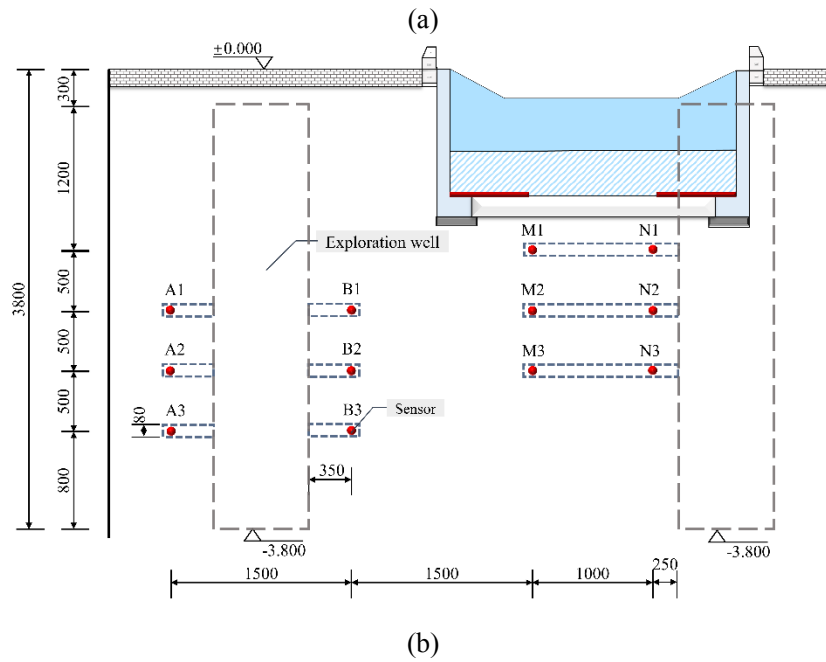
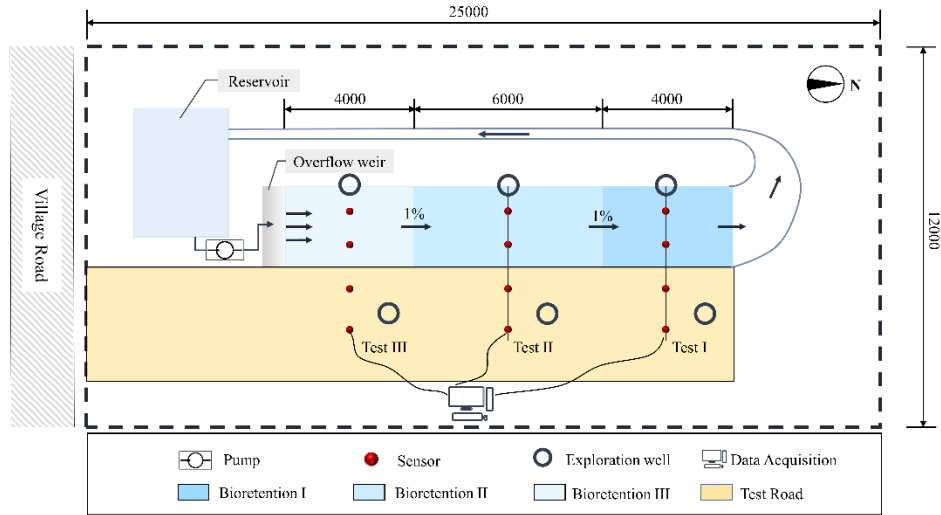


Fig. 4. Layout of test site: (a) Whole site; (b) Test I section sensor

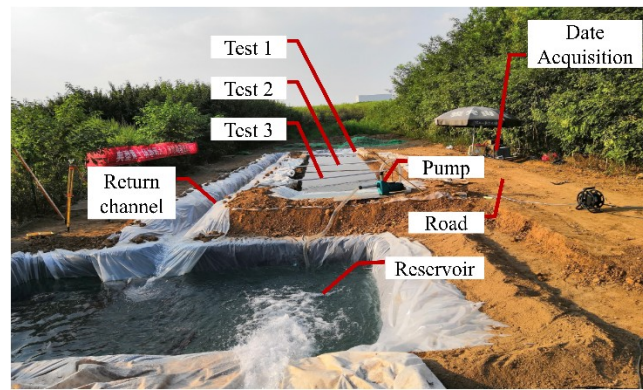


Fig. 5. Actual working condition of the test site

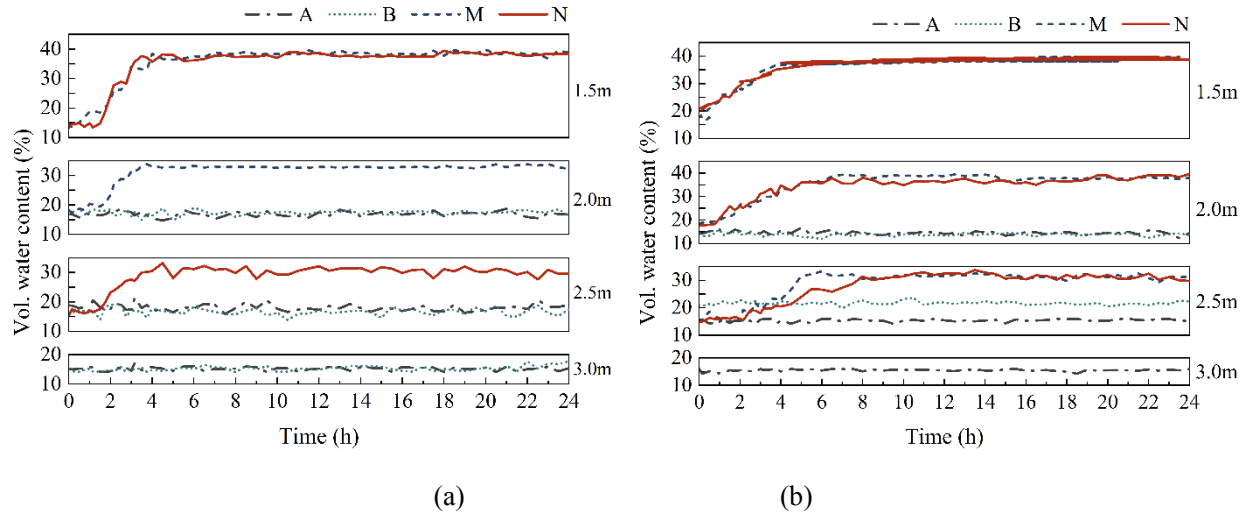


Fig. 6. Duration curve of foundation water content at different locations: (a) Bioretention I; (b) Bioretention II

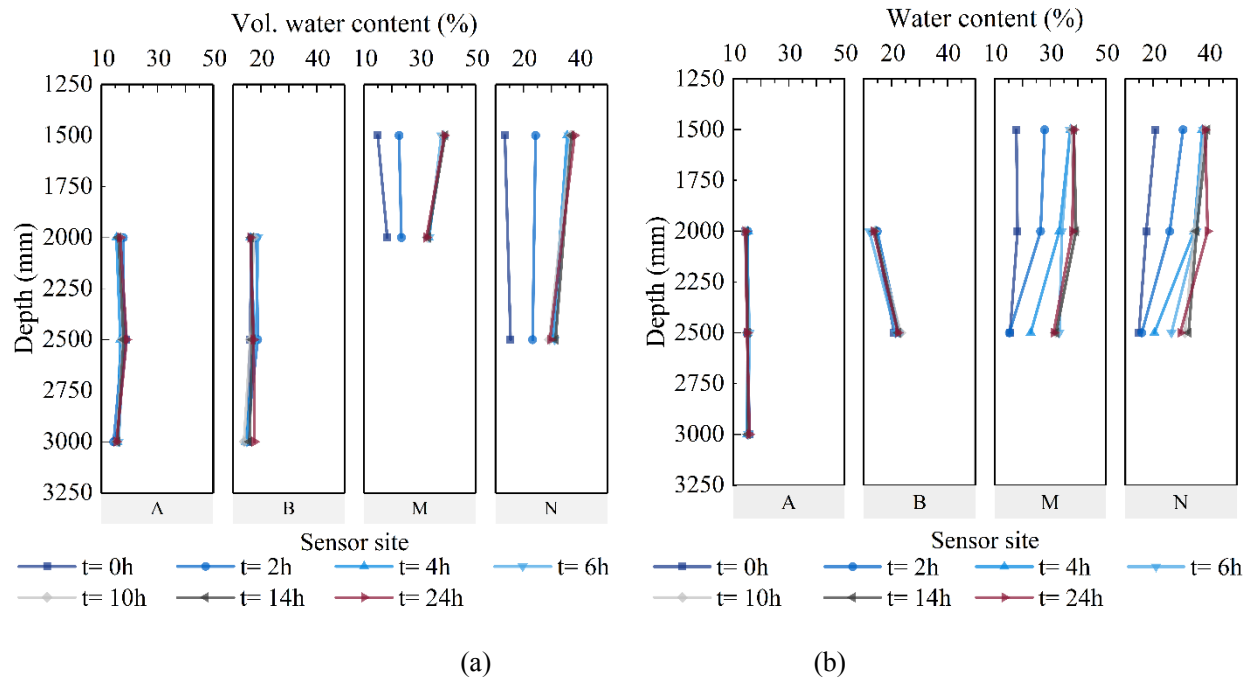
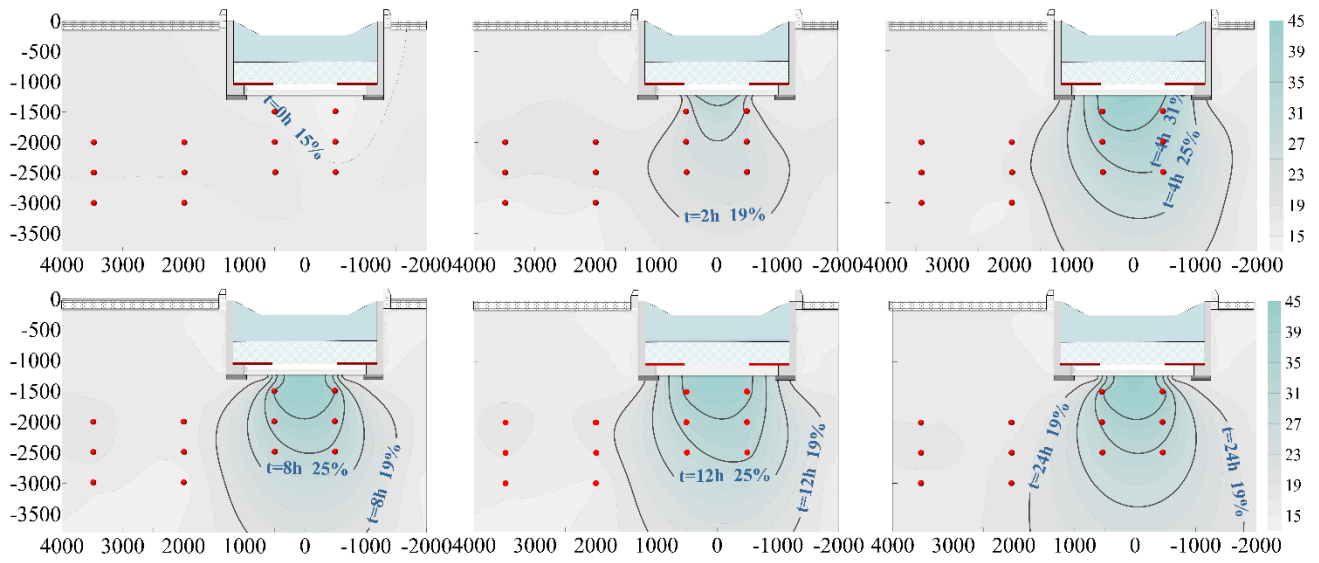
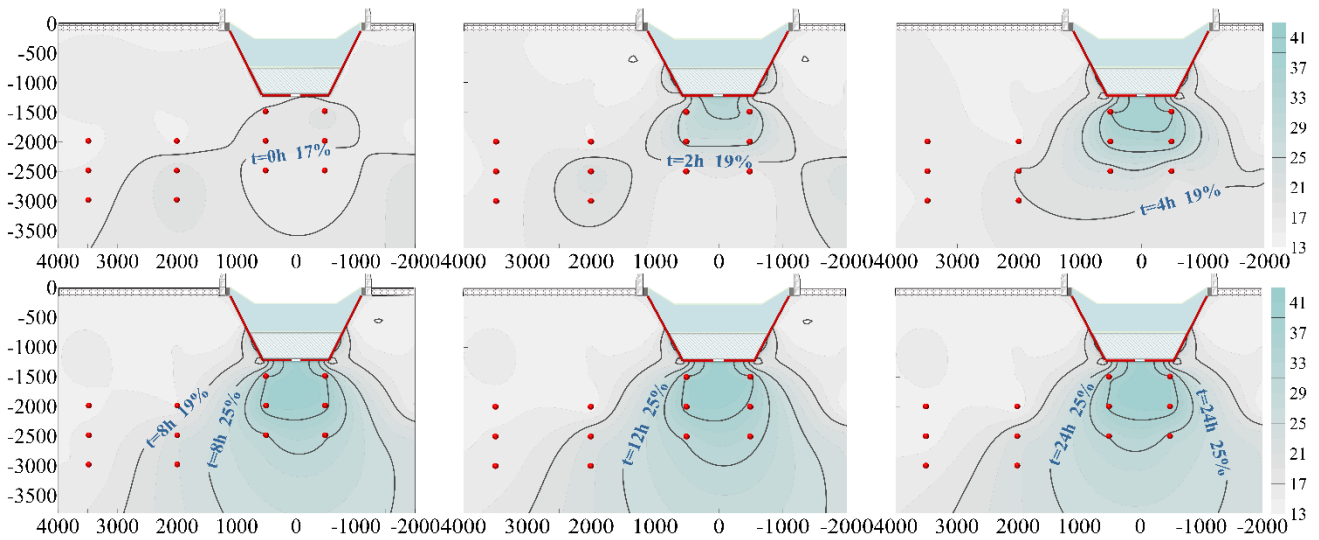


Fig. 7. Volumetric water content profile versus depth at different intervals of time: (a) Bioretention I; (b) Bioretention II



(a)



(b)

Fig. 8. Comparative contour map of infiltration range of different facilities: (a) Bioretention I; (b) Bioretention II

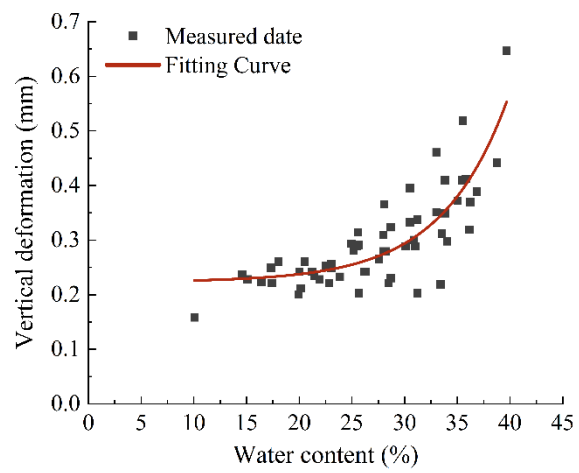


Fig. 9. Wetting deformation curve of soil in the test site

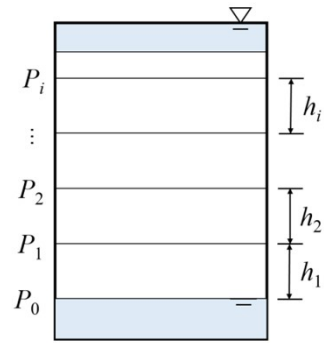
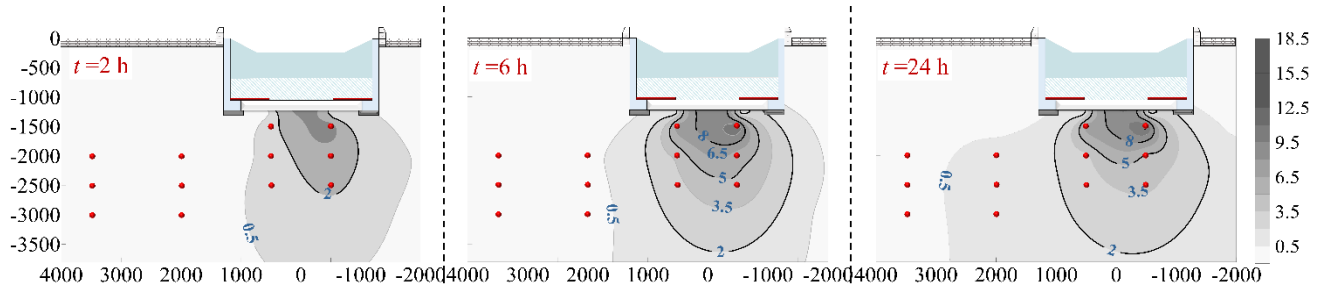
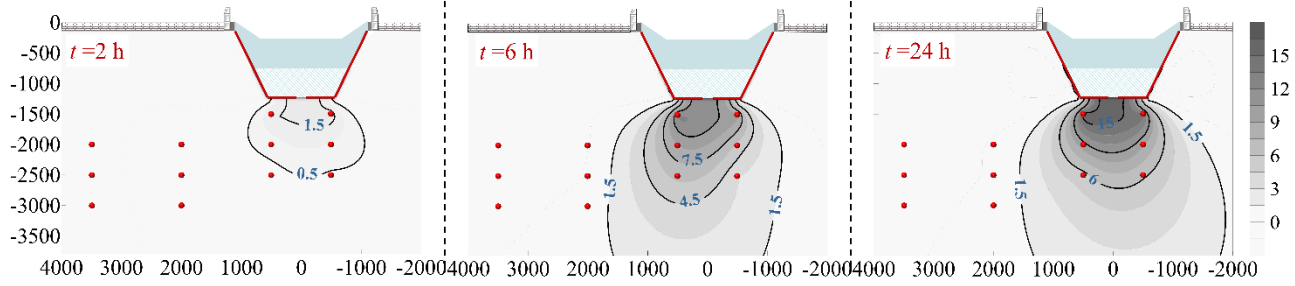


Fig. 10. Calculation diagram of wetting settlement



(a)



(b)

Fig. 11. Contour map of the wetting settlement of different facilities: (a) Bioretention I; (b) Bioretention II

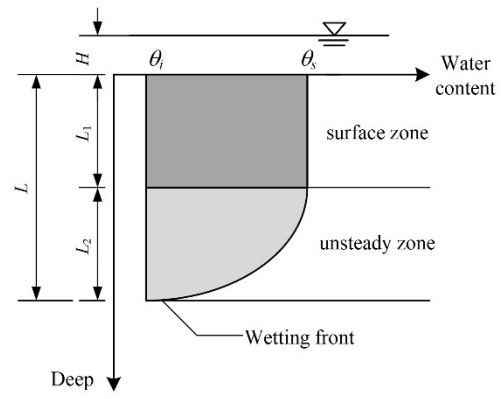


Fig. 12. The LGAM model of water infiltration in loess

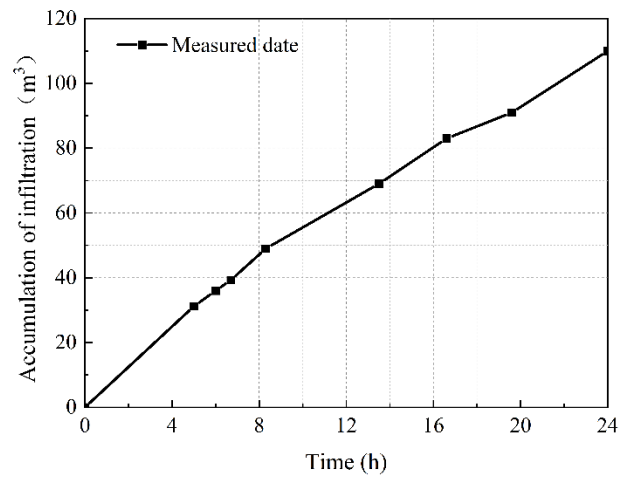


Fig. 13. Curve of cumulative infiltration with time