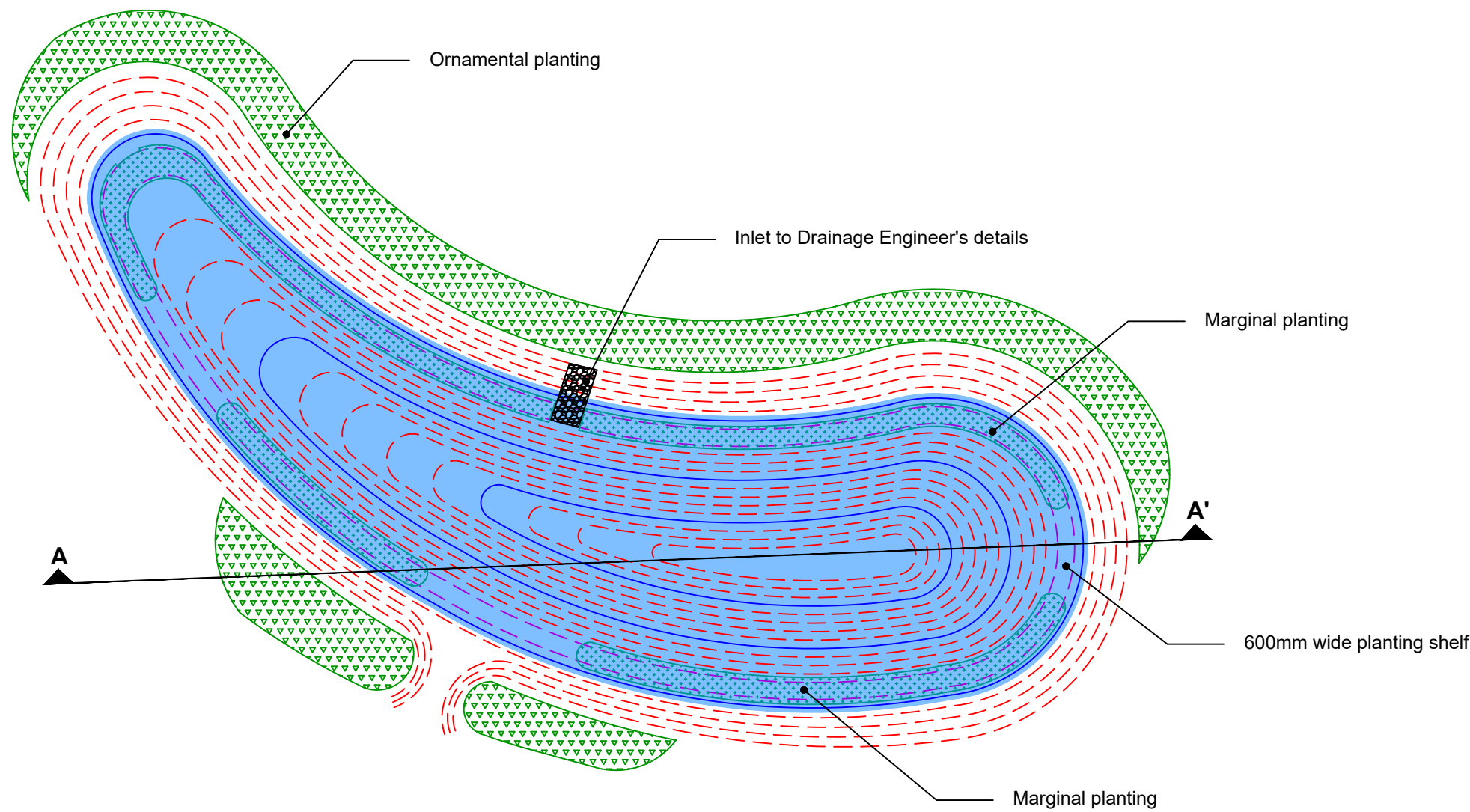
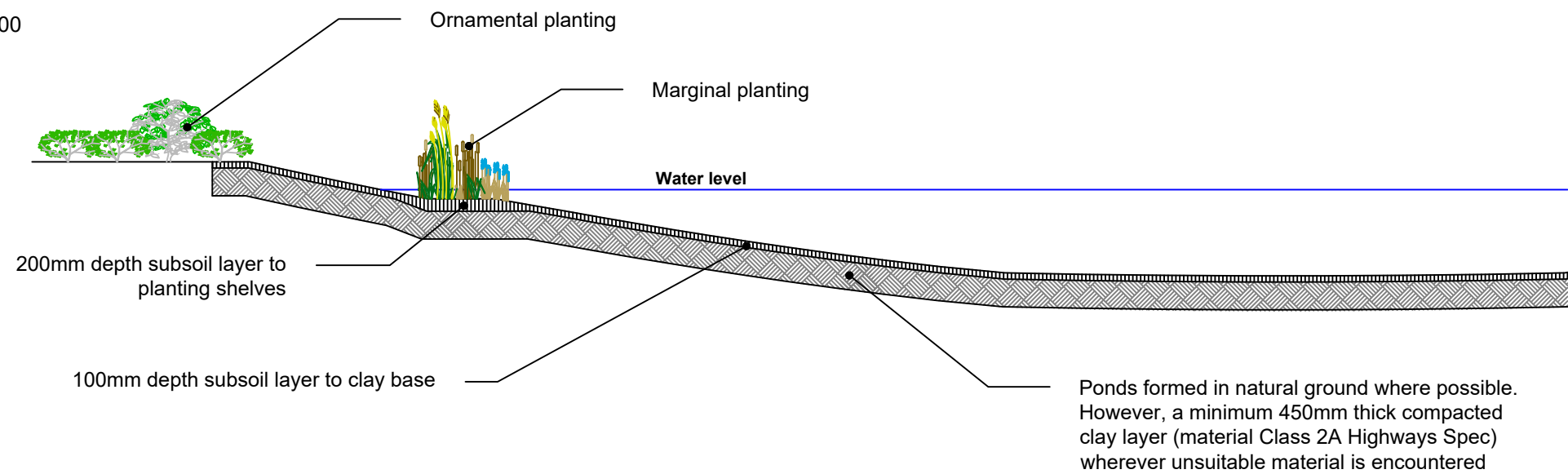


Plan
Scale 1:100



Section
Scale 1:100



NOTES

1. Do not scale from this drawing.
2. Pond slopes to be maximum of 1:3 gradient.
3. TEP recommends that the existing clay soils are tested to ensure competency for holding and retaining water.
4. Exploratory holes should be undertaken within the area of the proposed pond to see if it is affected by deposits of granular soils that would be unsuitable for retaining water. Within such areas it would be considered necessary to form a compacted clay liner of recommended minimum thickness 450mm ($k < 10^{-10}$ m/s). Where the excavation reverts to competent clay it is recommended that the liner extends beyond the unsuitable granular material for a distance at least equivalent to the liner thickness.
5. Where competent clay is revealed within the 'footprint' of the proposed pond it is considered that no liner is necessary but it is recommended that checks are undertaken to ensure that the clay continues below bed level for a depth of 450mm. This could be accomplished by checking at intervals of, say 6 metre centres throughout the excavated area. Similarly, it is recommended that checks on the sides of the pond/ditch are undertaken to ensure that a similar clay thickness is available. If the general clay thickness is less than 450mm it is recommended that the clay is removed and replaced by a compacted clay liner. Where shallow excavations are carried out to check the clay thickness these should be kept to as small an area as possible and the clay arisings should be adequately compacted during subsequent backfilling such that the overall integrity of the clay cover is not compromised.
6. The clay used for forming a lining should not be too stony, wet or dry. It should also be free of any organic or similar degradable material and be compacted in layers of a suitable thickness in accordance with the Specification for Highways Works 1998 (for a class 2A material) using a tamping roller. Clay considered unsuitable, together with any other non-suitable material such as granular or organic soils should be stockpiled separately to the suitable clay deposits to avoid cross-contamination occurring.
7. Where obviously weak clays having high moisture content are encountered, these should be discarded or allowed to dry. Where there is any doubt, testing should be carried out to determine the natural moisture content.
8. Where there is doubt as to the integrity/compaction of the clay liner it is recommended that checks on the in-situ density are carried out using the core cutter method.
9. It is the Contractors responsibility to ensure that the existing and new clay liner is appropriately puddled to ensure water retention. The Contractor should test the clay liner for water loss prior to installing the subsoil layer. Any leak should be found and remedied prior to installing the subsoil layer and planting of the pond.

A	Update title block, amend text size	JW	GA	15/08/23
Rev	Description	Drawn	Approved	Date



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Project
Standard Details

Title
Pond Construction - Clay base

Drawing Number
TEP.AQU.004A

Drawn	Checked	Approved	Scale	Date
RC	GDA	GDA	As shown @ A3	04/08/17