

Key:

① Heavy-duty flat root barrier (root exclusion barrier) (in red), continuous and impermeable, installed to the perimeter of the tree pit to prevent lateral root encroachment and protect adjacent paving, planter walls, seating bases and substructures. Barrier to extend the full depth of the tree pit and interface with adjacent structural elements as required.

② Free-draining granular sub-base to maintain drainage. Compacted in layers.

③ Geotextile structural filter membrane (e.g. twin walled structural geonet by GreenBlue Urban) (in blue) separating soil from sub-base to prevent fines migration.

④ Open reinforcing mesh (e.g. open reinforcing mesh by GreenBlue Urban) (in green).

⑤ 2 x 600mm deep soil cells (e.g. rootspace by GreenBlue Urban) and associated accessories to achieve 24 m³ per tree pit.

⑥ Nutrient rich topsoil (e.g. rootsoil 20 topsoil by GreenBlue Urban) and subsoil infill (e.g. rootsoil sub subsoil by GreenBlue Urban) within the modular cell structure - tree growing medium.

⑦ Existing forecourt surfacing / pavement - reclaimed and reinstated.

⑧ Free-draining permeable granular sub-base (Type 3 or open-graded aggregate). Compacted in layers.

⑨ 2 x heavy-duty cast aluminium irrigation and aeration inlets (provide controlled access points for water and air to enter the soil/root zone beneath pavement) To be seamlessly (flush and trip-free) integrated within the existing surfacing pattern

⑩ Large-capacity, passive irrigation and aeration inlet (delivers water and air directly to the root zone of newly planted trees)

⑪ Underground tree anchoring system (rootball guying) to stabilise newly planted trees.

⑫ Positive drainage connection subject to on-site infiltration testing. Pipe at base of planter where natural drainage is insufficient to prevent waterlogging.

⑬ Nursery-grown UK-sourced low-fruiting Liquidambar styraciflua (Liquidambar / Sweet Gum) tree or similar approved. Tree to be supplied and planted as a semi-mature specimen, size and quality to comply with BS 3936 and planting, establishment and aftercare to comply with BS 8545. Typical girth 20–25 cm.

⑭ Ribbed root barrier (root deflection barrier) (in purple) to deflect and guide roots downward, encouraging deep rooting within the tree pit. Installed with ribs facing the tree pit. Semi-permeable barrier intended to manage root architecture, not to fully exclude roots.

