



- NOTES:**
1. NON-WOVEN GEOTEXTILE SPECIFICATION. THE GEOTEXTILE SHALL:
    - SUSTAIN A TENSILE LOAD OF NOT LESS THAN 5.0KN/m AT BREAK AND HAVE A MINIMUM FAILURE STRAIN OF 10%
    - WHEN DETERMINED IN ACCORDANCE WITH IS EN ISO 10319;
    - HAVE A MINIMUM PUNCTURE RESISTANCE OF 1200 N WHEN DETERMINED IN ACCORDANCE WITH IS EN ISO 12236;
    - HAVE A SIZE DISTRIBUTION OF PORE OPENINGS SUCH THAT THE APPARENT OPENING SIZE Ø90 WHEN DETERMINED IN ACCORDANCE WITH IS EN ISO 12956, OR OTHER APPROPRIATE TEST, IS LESS THAN 100 MICROMETRES
    - ALLOW WATER TO FLOW THROUGH IT, IN EITHER DIRECTION, NORMAL TO ITS PRINCIPAL PLANE AT A RATE OF NOT LESS THAN 10 l/m<sup>2</sup>/s, UNDER A CONSTANT HEAD OF WATER OF 100mm
    - AND A MAXIMUM BREAKTHROUGH HEAD OF 50MM WHEN DETERMINED IN ACCORDANCE WITH IS EN ISO 12958.
  2. PLAN AREA OF THE BIO-RETENTION AREA SHOULD BE 2-4% OF THE OVERALL AREA DRAINED. MAXIMUM WIDTH 10m UNLESS NOTED OTHERWISE.
  3. SHOULD A LEVEL SURFACE BE REQUIRED FOR OTHER AMENITIES, AN AREA WITH TREE GRILLS CAN BE INSTALLED
  4. WHERE PERMEABLE PAVING IS LOCATED THE TREE PITS ACT AS AN OVERTFLOW RESPONSE.

## MAINTENANCE REQUIREMENTS FOR BIORETENTION SYSTEMS & TREE PITS

REGULAR INSPECTIONS  
INSPECT INFILTRATION SURFACES FOR SILTING AND PONDING, RECORD  
DE-WATERING TIME OF THE FACILITY AND ASSESS STANDING  
WATER LEVELS IN UNDERDRAIN (IF APPROPRIATE) TO DETERMINE IF  
MAINTENANCE IS NECESSARY. FREQUENCY - QUARTERLY  
CHECK OPERATION OF UNDERDRAINS BY INSPECTION OF FLOWS AFTER RAIN.  
FREQUENCY - ANNUALLY  
ASSESS PLANTS FOR DISEASE INFECTION, POOR GROWTH, INVASIVE SPECIES  
ETC AND REPLACE AS NECESSARY. FREQUENCY - QUARTERLY  
INSPECT INLETS AND OUTLETS FOR BLOCKAGE. FREQUENCY - QUARTERLY

REGULAR MAINTENANCE  
REMOVE LITTER AND SURFACE DEBRIS AND WEEDS. FREQUENCY -  
QUARTERLY (OR MORE FREQUENTLY FOR TIDINESS OR AESTHETIC REASONS)  
REPLACE ANY PLANTS, TO MAINTAIN PLANTING DENSITY. FREQUENCY - AS  
REQUIRED  
REMOVE SEDIMENT, LITTER AND DEBRIS BUILD-UP FROM AROUND INLETS OR  
FROM FOREBAYS. FREQUENCY - QUARTERLY TO BIANNUALLY  
INFILL ANY HOLES OR SCOUR IN THE FILTER MEDIUM, IMPROVE EROSION  
PROTECTION IF REQUIRED. FREQUENCY - AS REQUIRED  
REMOVE ACCUMULATIONS OF SILT BY RAKING AWAY SURFACE MULCH,  
SCARIFYING SURFACE OF MEDIUM AND REPLACING MULCH. FREQUENCY - AS  
REQUIRED

REMEDIAL ACTIONS  
REMOVE AND REPLACE FILTER MEDIUM AND VEGETATION ABOVE.  
FREQUENCY - AS REQUIRED BUT LIKELY TO BE > 20 YEARS

ROOTSPACE SUPPORT STRUCTURE UNDER COVERED / GRILLED TREE PITS

IN ALL COVERED COVERED / GRILLED TREE PITS AND IN ALL INSTANCES WHERE THE TREE PIT SOIL EXTENDS BENEATH THE FOOTPATH / PAVEMENT, A PROPRIETARY ROOTSPACE PAVEMENT SUPPORT SYSTEM BY GREENLEAF IRELAND, OR EQUAL APPROVED, SHALL BE INTEGRATED ACROSS THE FULL EXTENT OF THE TREE PIT. REFER TO LANDSCAPE ARCHITECTS DRAWING FOR TREE PIT SOIL EXTENTS.

	STATUS	FOR INFORMATION
--	--------	-----------------

Date: 19/08/22	Scale: AS SHOWN	Drawn: MB	Chk: AG	App: DG
Project No: W3683	Drg. No: W3683-DR-1030			Rev: 01