

NOTES

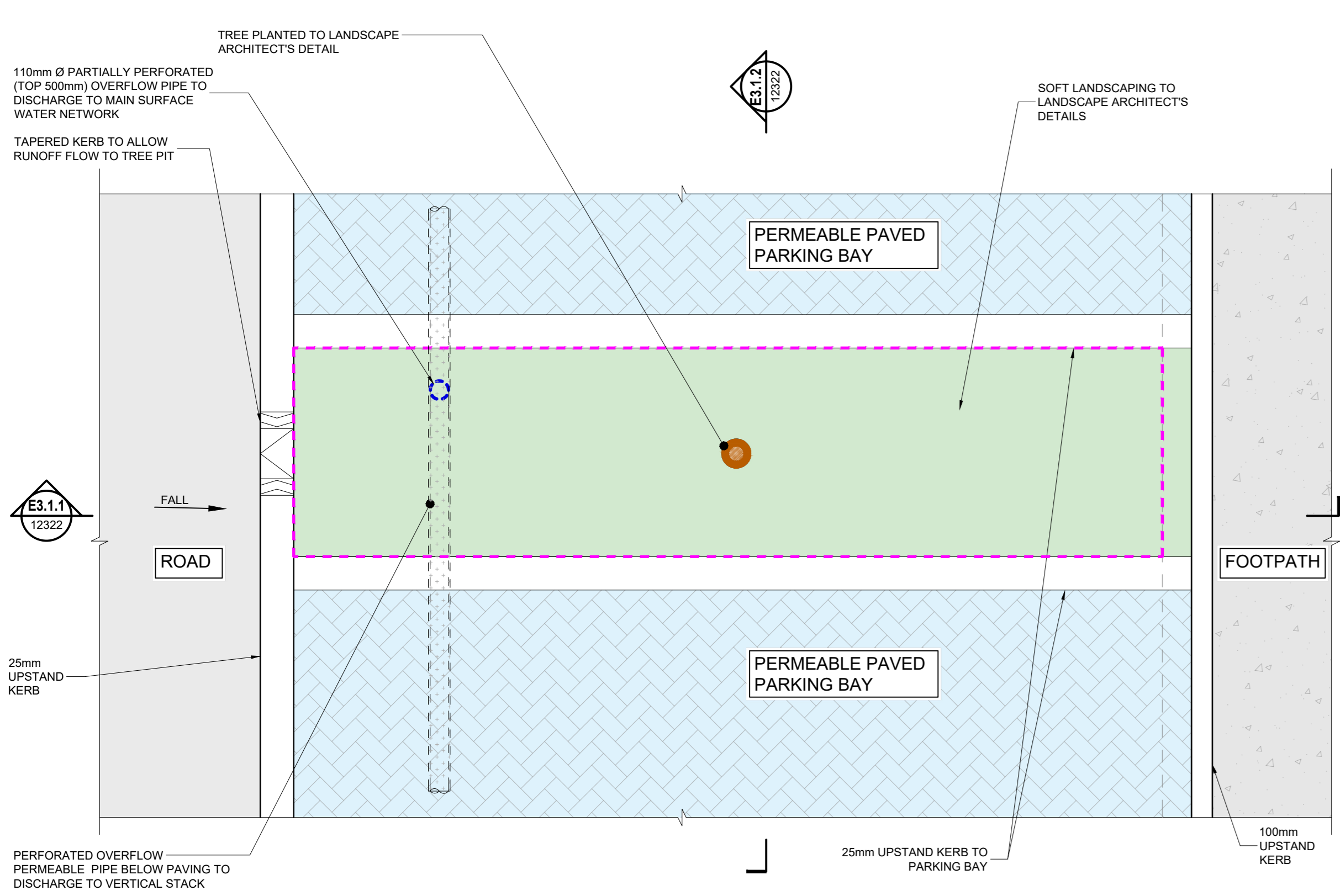
- THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL ENGINEERS & ARCHITECTS DRAWINGS & DIMENSIONS ONLY (NOT SCALING) TO BE USED. WHERE A CONFLICT OF INFORMATION EXISTS OR IF IN ANY DOUBT - ASK.
- CONSULTANTS TO BE INFORMED IMMEDIATELY OF ANY DISCREPANCIES BEFORE WORK PROCEEDS.

- NOTES:**
- 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 D50 WHEN DETERMINED IN ACCORDANCE WITH IS EN ISO 12956, OR OTHER APPROPRIATE TEST, IS LESS THAN 300 MICRONS
 - ALLOW WATER TO FLOW THROUGH IT, IN EITHER DIRECTION, NORMAL TO ITS PRINCIPAL PLANE AT A RATE OF NOT LESS THAN 10 l/m²/s, UNDER A CONSTANT HEAD OF WATER OF 100mm AND A MAXIMUM BREAKTHROUGH HEAD OF 500mm WHEN DETERMINED IN ACCORDANCE WITH IS EN ISO 12958.
 - PLAN AREA OF THE BIO-RETENTION AREA SHOULD BE 2-4% OF THE OVERALL AREA DRAINED. MAXIMUM WIDTH 10m UNLESS NOTED OTHERWISE.

- 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
REPAIR MINOR ACCUMULATIONS OF SILT BY RAKING AWAY SURFACE MULCH, SCARPING SURFACE OF MEDIUM AND REPLACING MULCH. FREQUENCY - AS REQUIRED
- REMEDIATION ACTIONS**
REMOVE AND REPLACE FILTER MEDIUM AND VEGETATION ABOVE. FREQUENCY - AS REQUIRED BUT LIKELY TO BE > 20 YEARS

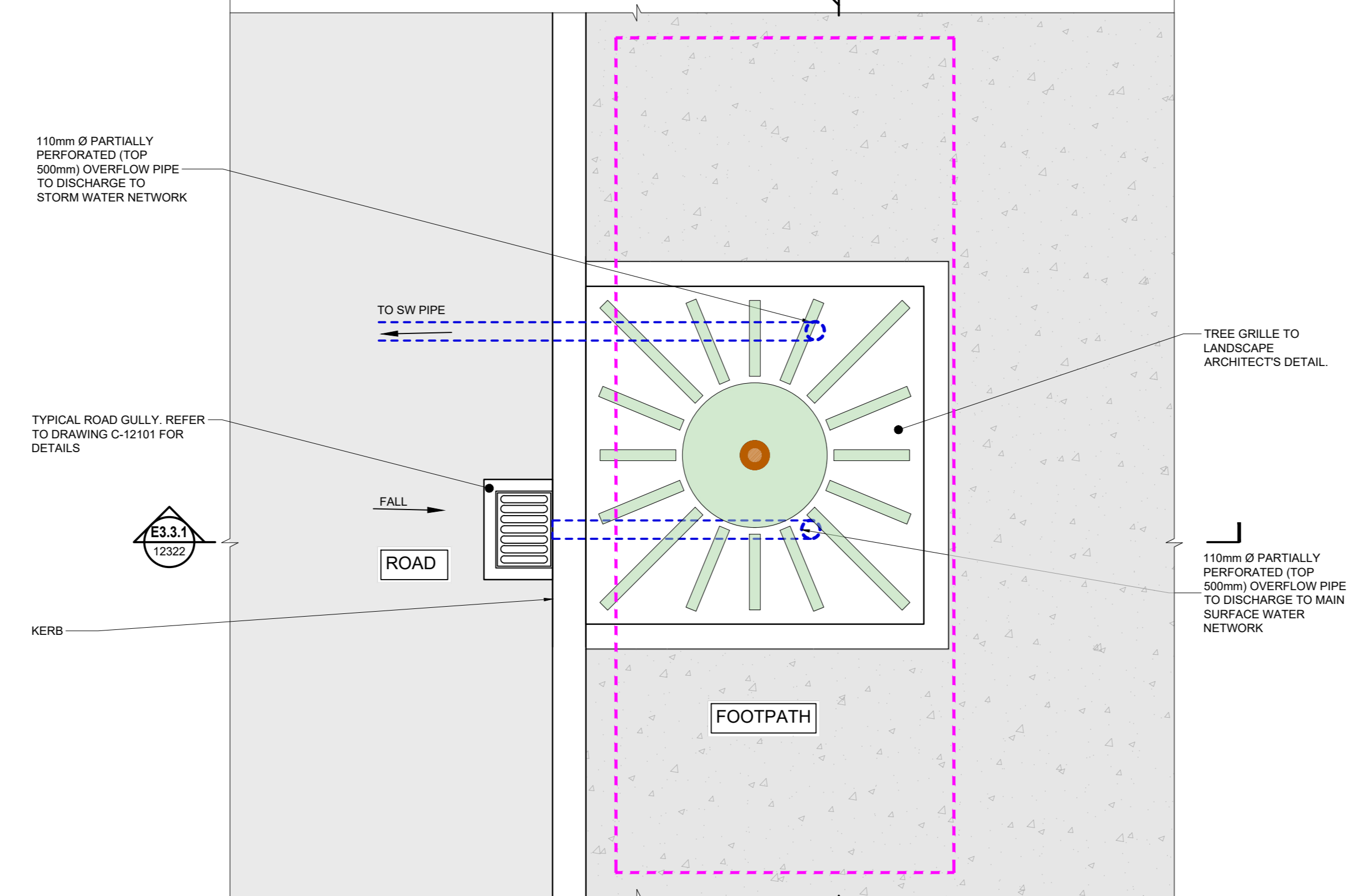
- ROOTSPACE SUPPORT STRUCTURE UNDER COVERED / GRILLED TREE PITS.**
- IN ALL COVERED COVERED / GRILLED TREE PITS AND IN ALL INSTANCES WHERE THE TREE PIT SOIL EXTENDS BENEATH THE FOOTPATH / PAVEMENT, A PROPRIETARY ROOTSPACE PAVEMENT SUPPORT SYSTEM BY GREENLEAF IRELAND, OR EQUAL APPROVED, SHALL BE INTEGRATED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

TREE PIT - DIRECT DISCHARGE HARDSTANDING AREA - TYPE1

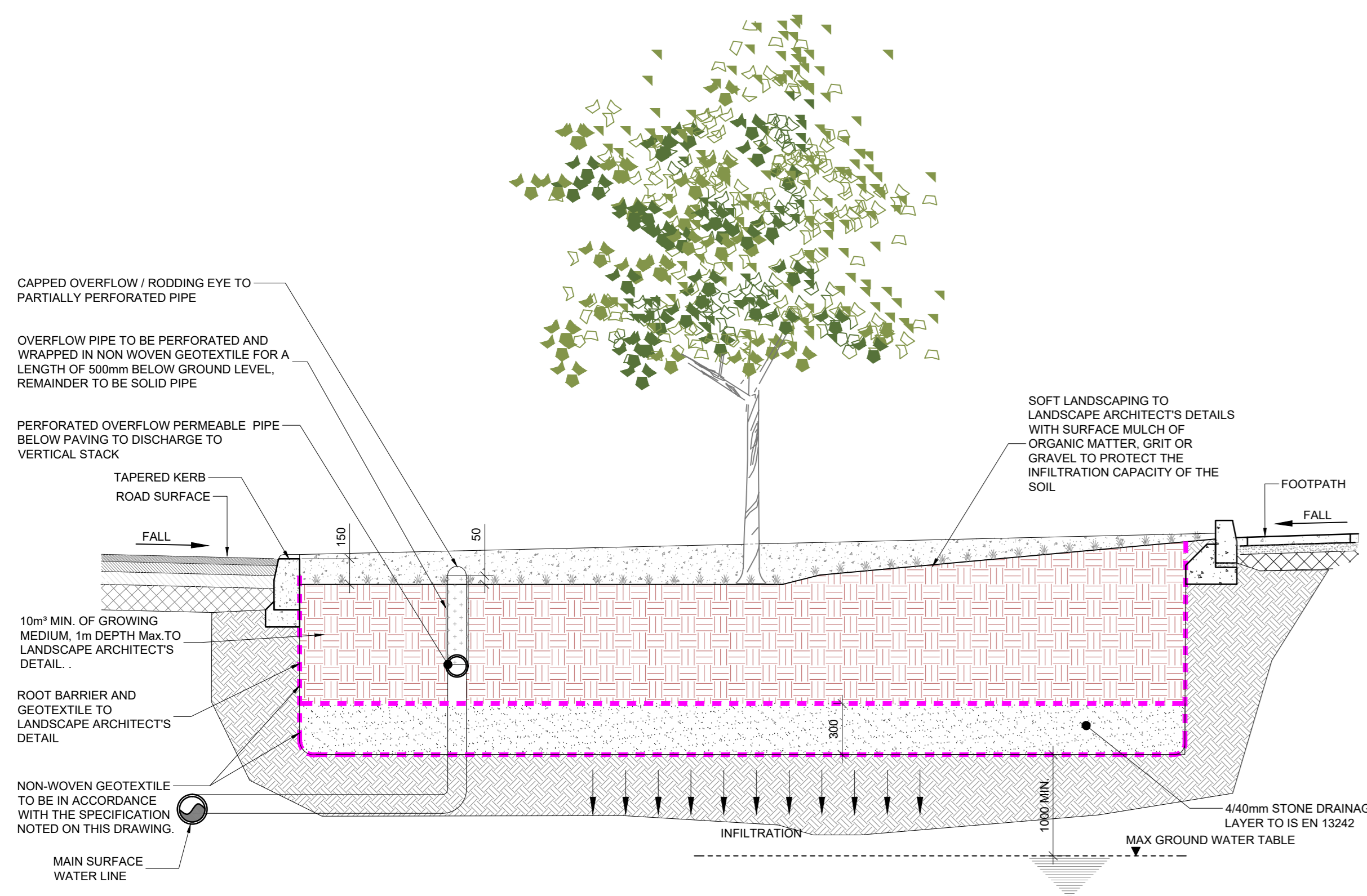


TYPICAL PLAN
SCALE @ A0: 1:25
SCALE @ A2: 1:50

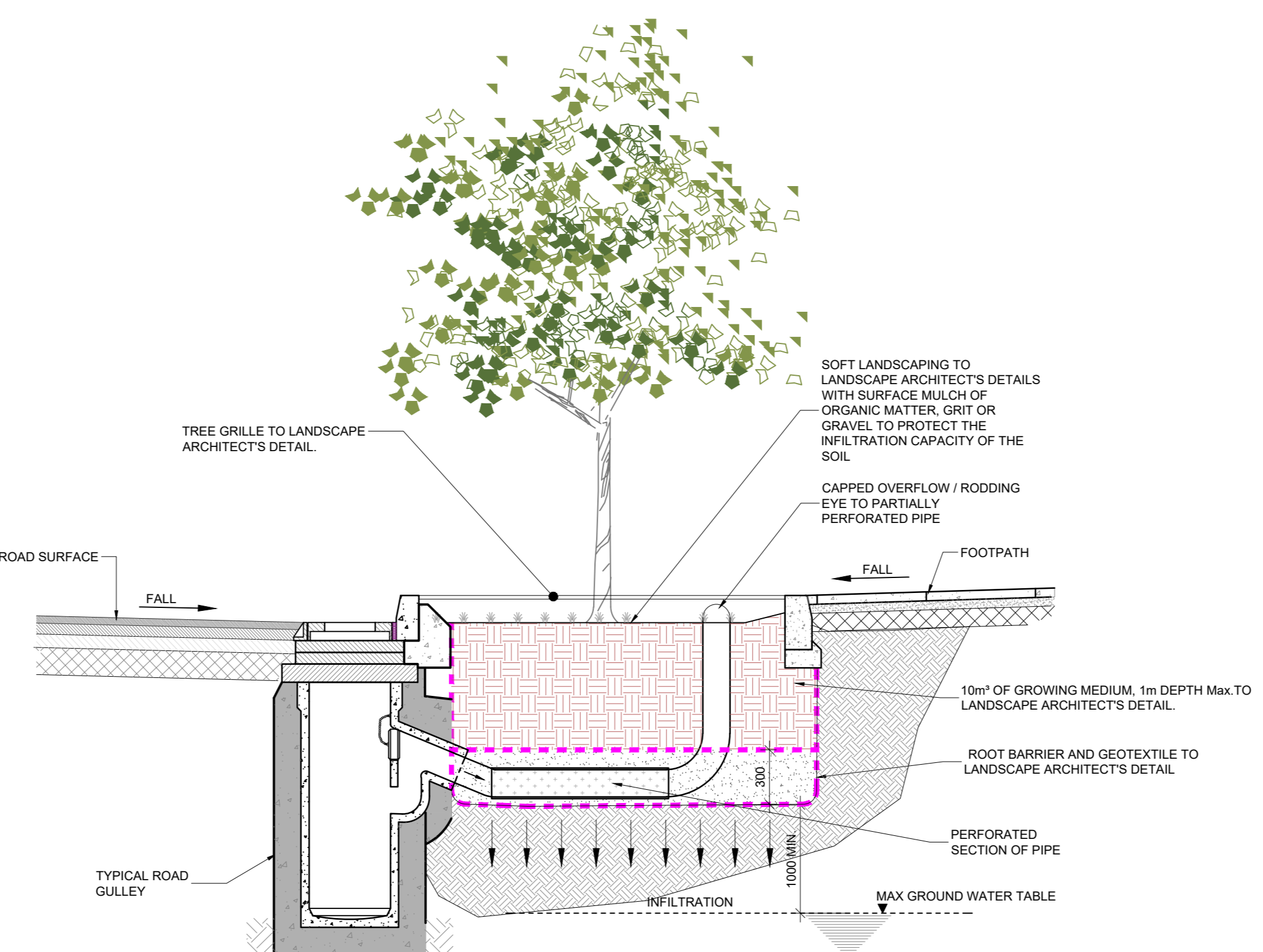
TREE PIT - DIRECT DISCHARGE FROM ROAD GULLEY



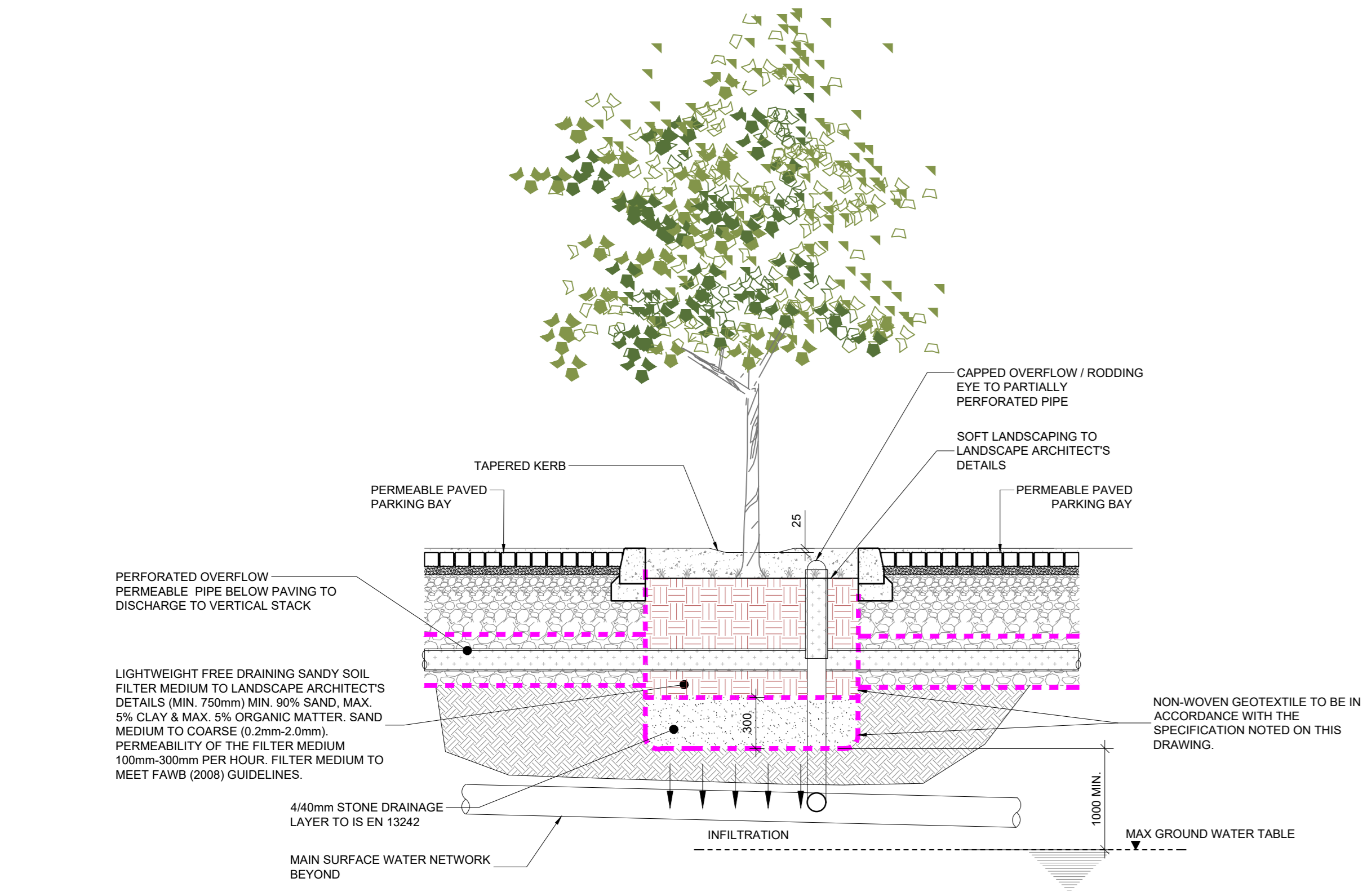
TYPICAL PLAN
SCALE @ A0: 1:25
SCALE @ A2: 1:50



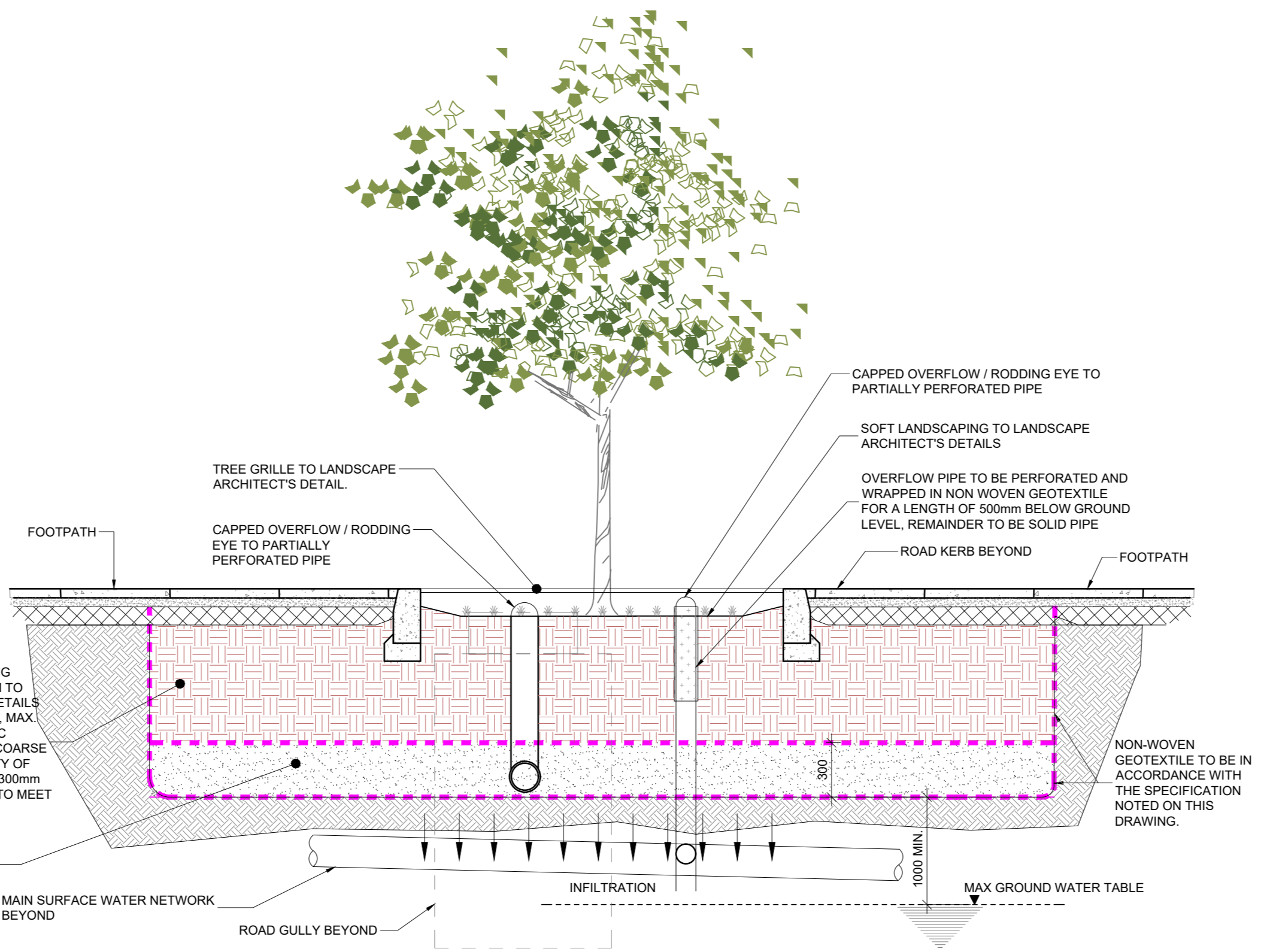
TYPICAL SECTION E3.1.1
SCALE @ A0: 1:25
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TYPICAL SECTION E3.3.1
SCALE @ A0: 1:25
SCALE @ A2: 1:50



TYPICAL SECTION E3.1.2
SCALE @ A0: 1:25
SCALE @ A2: 1:50



TYPICAL SECTION E3.3.2
SCALE @ A0: 1:25
SCALE @ A2: 1:50

PL2	20.08.24	ISSUED FOR PLANNING	AM
PL1	19.03.24	ISSUED FOR PLANNING	AM
ISSUE	DATE	DESCRIPTION	BY
Project Engineer: MT		Project Director: MH	
PLANNING COMPLIANCE			
<p>BM Dublin Office: Sandwell House, 55-56 Lower Sandwell Street, Dublin 2, Ireland. Tel: (01) 877 3500 Fax: (01) 877 3164 London Office: 8th Floor, 484 House, 4 MM Street, London SE1 2BA, United Kingdom. Tel: (02044) 20 3790 3030</p> <p>Consulting Engineers, Civil, Structural, Project Management, E-mail: bm@bm.ie Web: www.bm.ie</p> <p>ACEI The Institution of Structural Engineers Chartered Institution of Structural Engineers</p>			
CLIENT: ARDSTONE HOMES LIMITED			
PROJECT TITLE: CARRIGMORE WOODS		BM PROJECT No: 21.226	
REFERENCE	SUITABILITY	REVISION	
	80	-	
DRAWING TITLE: Suds DETAILS: TREE PITS			
DRAWING REFERENCE	STATUS	REVISION	
CWD-BMCE-ZZ-ZZ-DR-C-12320	S0	PL2	