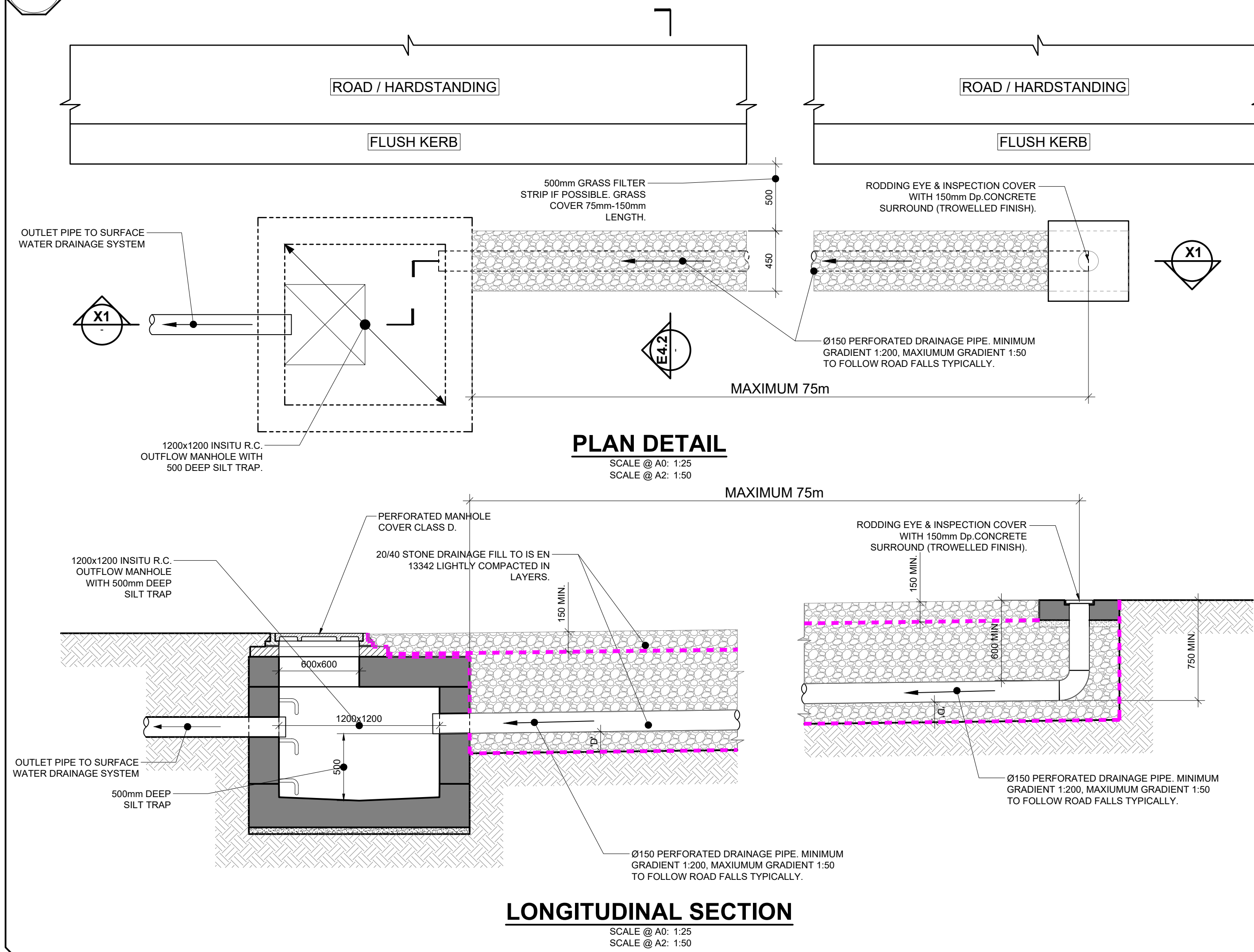


## NOTES

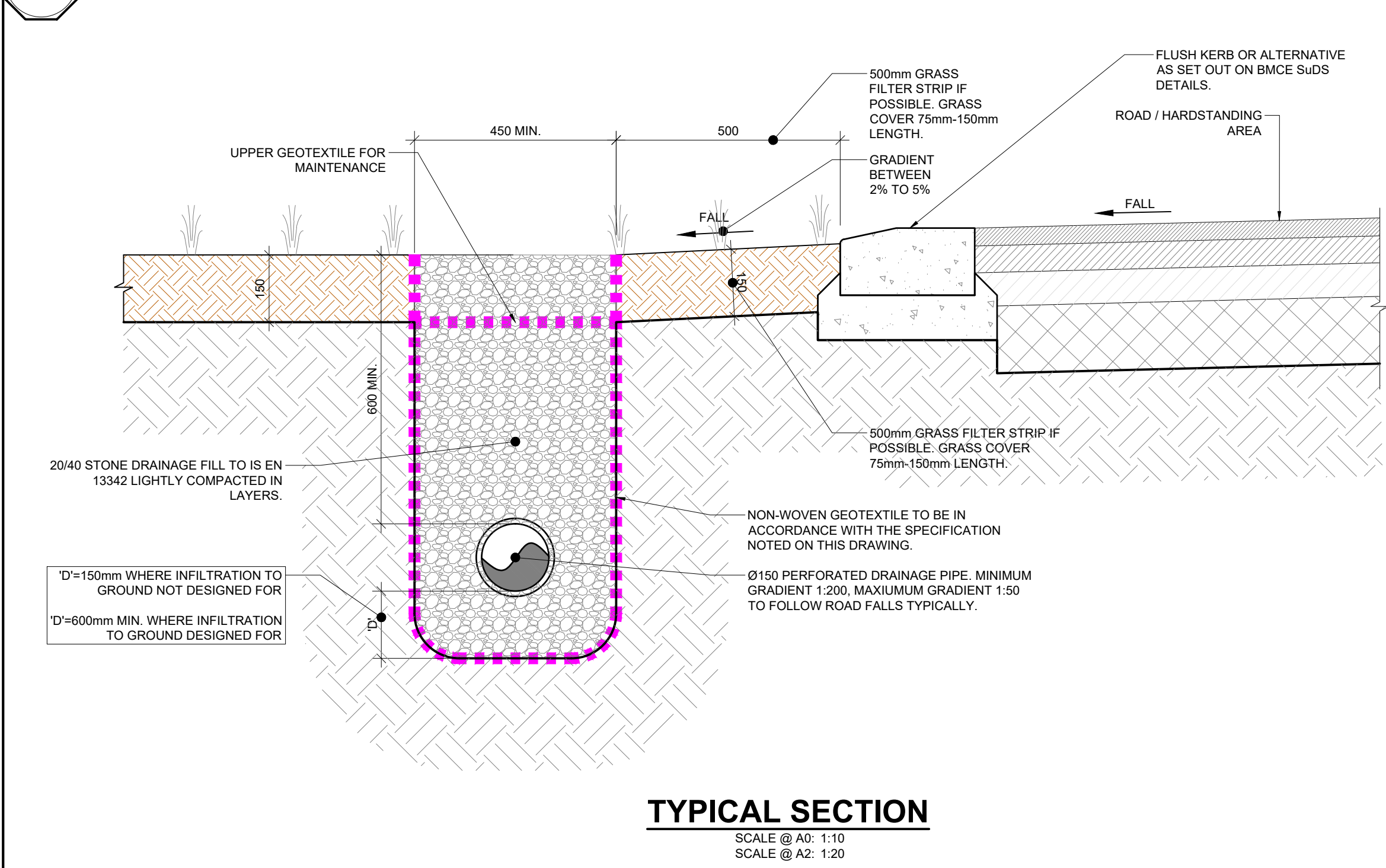
- THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL ENGINEERS & ARCHITECTS DRAWINGS FIGURED DIMENSIONS ONLY (NOT SCALING) TO BE USED. WHERE A CONFLICT OF INFORMATION EXISTS OR IF IN ANY DOUBT - ASK.
- CONSULTANTS TO BE INFORMED IMMEDIATELY OF ANY DISCREPANCIES BEFORE WORK PROCEEDS.

## E4 FILTER DRAIN

## E4.1 FILTER DRAIN TAKING RUNOFF FROM ROAD / HARDSTANDING AREA.



## E4.2 FILTER DRAIN TAKING RUNOFF FROM ROAD / HARDSTANDING AREA.



## MAINTENANCE REQUIREMENTS FOR FILTER DRAINS

REMOVE LITTER (INCLUDING LEAF LITTER) AND DEBRIS FROM FILTER DRAIN SURFACE, ACCESS CHAMBERS AND PRE-TREATMENT DEVICES ON A MONTHLY BASIS (OR AS REQUIRED).  
INSPECT FILTER DRAIN SURFACE, INLET/OUTLET PIPEWORK AND CONTROL SYSTEMS FOR BLOCKAGES, CLOGGING, STANDING WATER AND STRUCTURAL DAMAGE ON A MONTHLY BASIS.  
INSPECT PRE-TREATMENT SYSTEMS, INLETS AND PERFORATED PIPEWORK FOR SILT ACCUMULATION, AND ESTABLISH APPROPRIATE SILT REMOVAL FREQUENCIES ON A SIX MONTHLY BASIS.  
REMOVE OR CONTROL TREE ROOTS WHERE THEY ARE ENCROACHING THE SIDES OF THE FILTER DRAIN, USING RECOMMENDED METHODS (e.g. NIUG, 2007 OR BS 3998:2010) AS REQUIRED AT LOCATIONS WITH HIGH POLLUTION LOADS.  
REMOVE SURFACE GEOTEXTILE AND REPLACE, AND WASH OR REPLACE OVERLAPPING FILTER MEDIUM FIVE YEARLY, OR AS REQUIRED.  
CLEAR PERFORATED PIPEWORK OF BLOCKAGES AS REQUIRED.

## 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 Ø90 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/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.
- PLAN AREA OF THE BIO-RETENTION AREA SHOULD BE 2-4% OF THE OVERALL AREA DRAINED. MAXIMUM WIDTH 10m UNLESS NOTED OTHERWISE.

|     |          |                     |    |
|-----|----------|---------------------|----|
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| Project Engineer: | BEGONA OLLERO | Project Director: | CIARAN KENNEDY |

BM STAGE

## PLANNING

**BM**  
Barrett Mahony  
Consulting Engineers, Civil, Structural, Project Management, E-mail: bmao@bt.com Web: www.bmao.ie

Client: **GREEN URBAN LOGISTICS 3 WHITE HEATHER PROPCO LIMITED CAPITAL**

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Drawing Title: **SUDS DETAILS FILTER DRAIN AND DETENTION BASIN DETAILS**

Drawing Reference: **WHH-BMD-ZZ-ZZ-DR-C-12322** Status: **PL4**