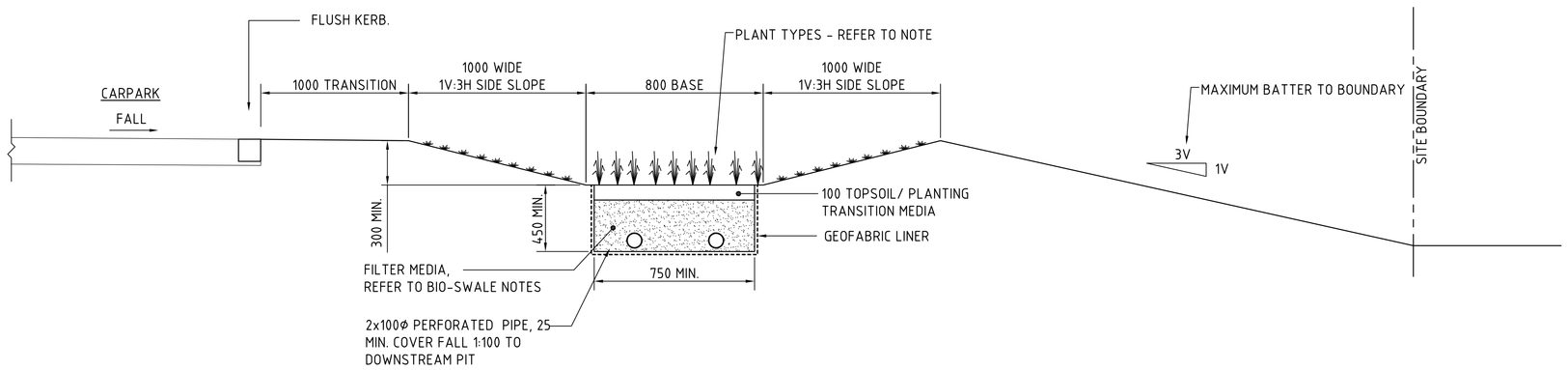


SECTION 1:20 (1) TYPICAL BIO-RETENTION SWALE ON WESTERN BOUNDARY

REFER DRG's C41 TO 44 & C51 TO C54

BIO-RETENTION SWALE NOTES:

FILTER MEDIA TO BE LOAMY SAND WITH A PERMEABILITY NOT LESS THAN 100mm/hr.
FILTER MEDIA TO BE FREE OF RUBBISH, DELETERIOUS MATERIAL, TOXICANTS, DECLARED PLANTS AND LOCAL WEEDS, AND IS TO NOT BE HYDROPHOBIC.

FILTER MEDIA TO HAVE THE FOLLOWING COMPOSITION RANGE:

CLAY & SILT (<0.05mm)	<3%
VERY FINE SAND (0.05-0.15mm)	5-30%
FINE SAND (0.15-0.25mm)	10-30%
MEDIUM TO COARSE SAND (0.25-1.00mm)	40-60%
COARSE SAND (1.0-2.0mm)	7-10%
FINE GRAVEL (2.0-3.4mm)	<3%

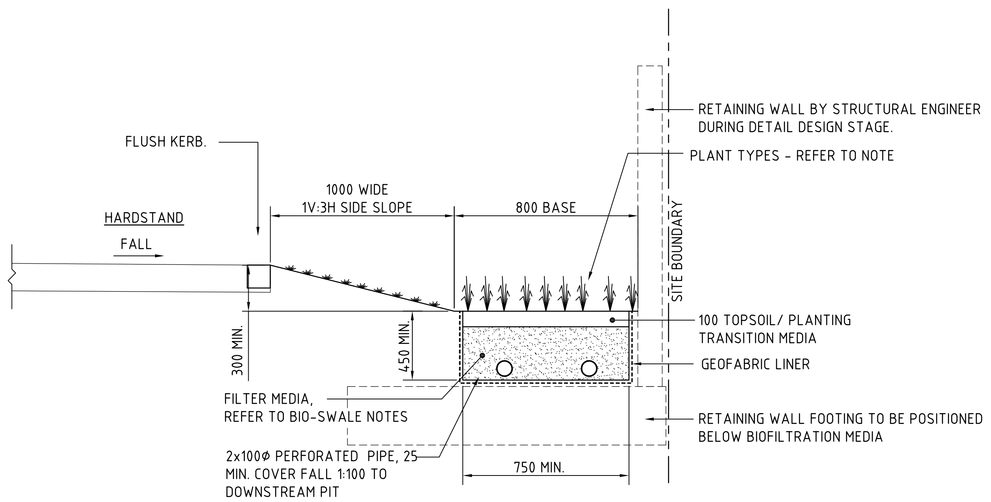
FILTER MEDIA THAT DOES NOT MEET THE FOLLOWING CRITERIA SHALL BE REJECTED:

a. ORGANIC MATTER CONTENT TO BE NO GREATER THAN 5%(W/W)
b. PH TO BE BETWEEN 5.5 AND 7.5
c. PHOSPHOROUS CONTENT TO BE NO GREATER THAN 20mg/kg

FILTER MEDIA TO BE ASSESSED BY QUALIFIED HORTICULTURALIST TO ENSURE CAPABILITY OF SUPPORTING PLANT LIFE.

DRAINAGE LAYER TO BE CLEAN GRAVEL 2-5mm.

PLANTS TO BE SELECTED BY HORTICULTURALIST TO PROVIDE ADEQUATE NUTRIENT UPTAKE FROM FILTER MEDIA.



SECTION 1:20 (2) TYPICAL BIO-RETENTION SWALE ON NORTHERN & SOUTHERN BOUNDARIES

REFER DRG's C41 TO 44 & C51 TO C54

FOR DEVELOPMENT APPLICATION

200mm 0 500 1000 1500 2000mm
SCALE 1:20 AT A0 SIZE SHEET

AMENDMENTS	DATE	ISSUE
FOR DEVELOPMENT APPLICATION	22.06.10	A

ARCHITECT: AUSTRALAND
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LEVEL 3, 1C, HOMEBUSH BAY DRIVE RHODES, NSW 2138
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PHONE : (02) 9767 2000
FAX : (02) 9767 2908

PROJECT
KMART SITE
LOT 2, DP1149138
EASTERN CREEK SITE STAGE 3

DESIGNED	DRAWN	DATE	CHECKED	SIZE	SCALE
G.M.	J.M.	03.06.10		A0	AS SHOWN

CAD REF: 10726-01-C46

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DRAWING TITLE
STORMWATER DETAILS
SHEET 2

DRAWING No C010726.01-C46 ISSUE A