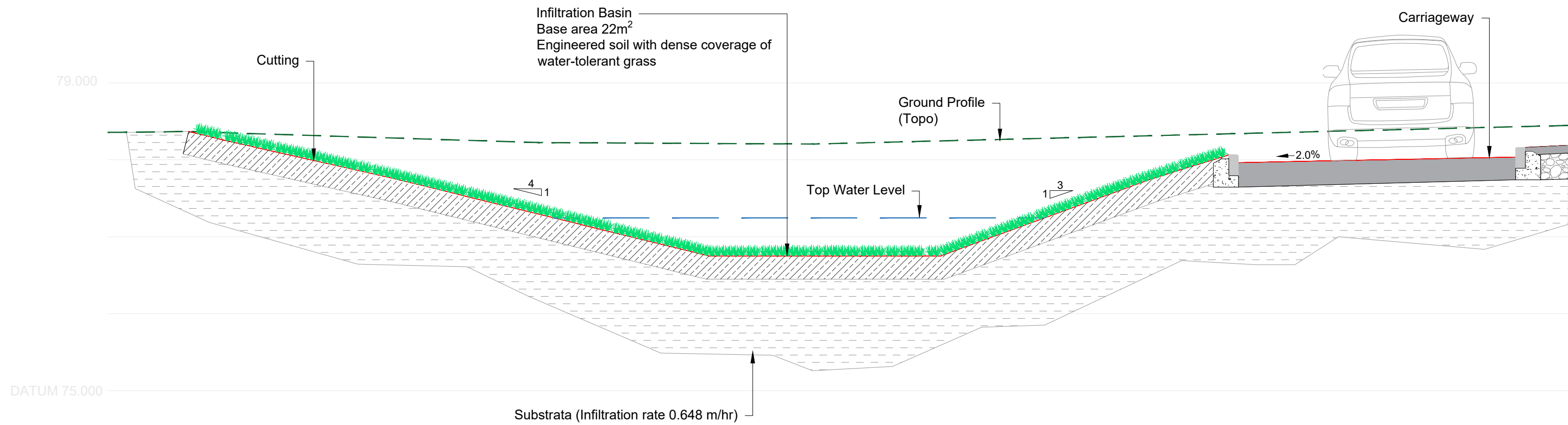
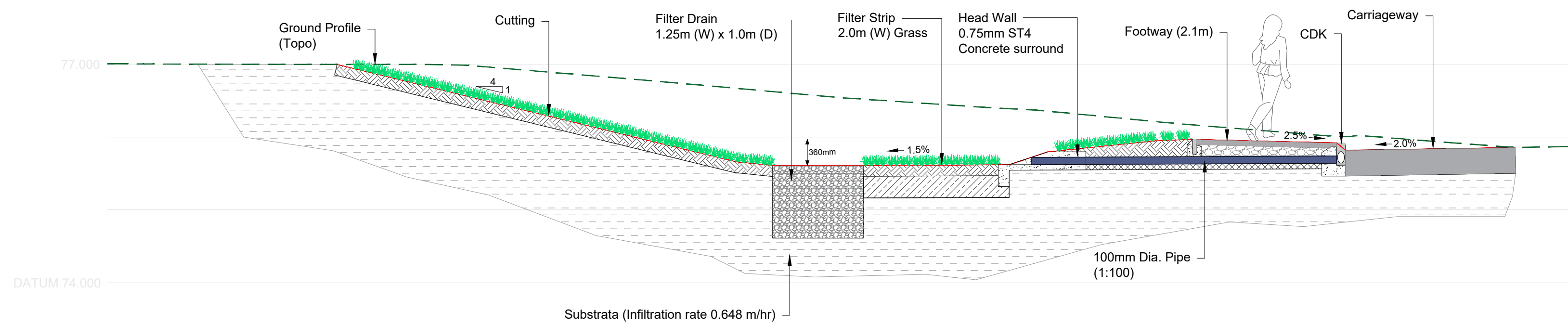


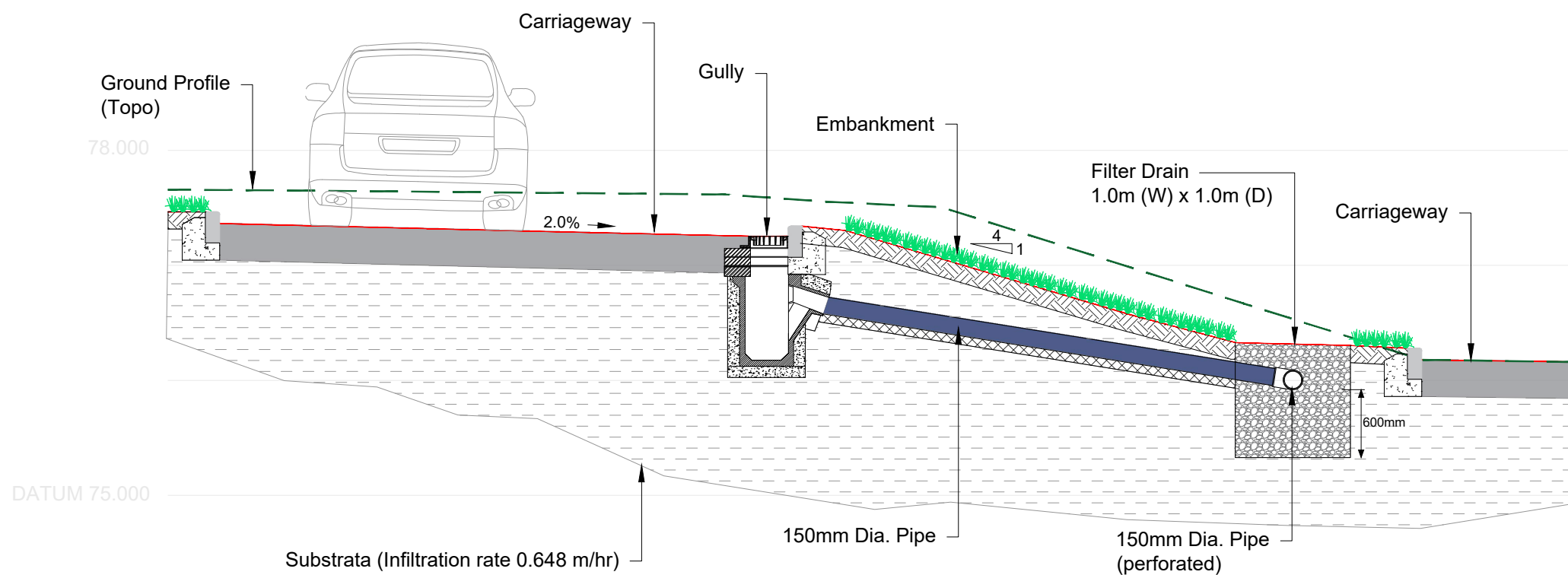
Infiltration Basin



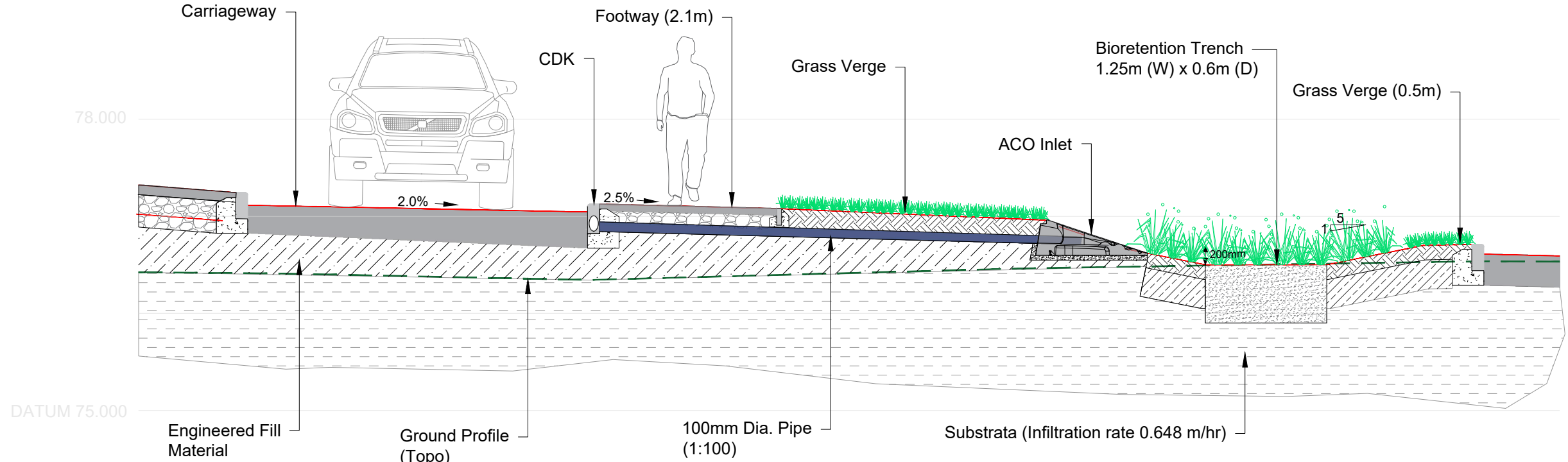
Access Road Infiltration Trench(2)



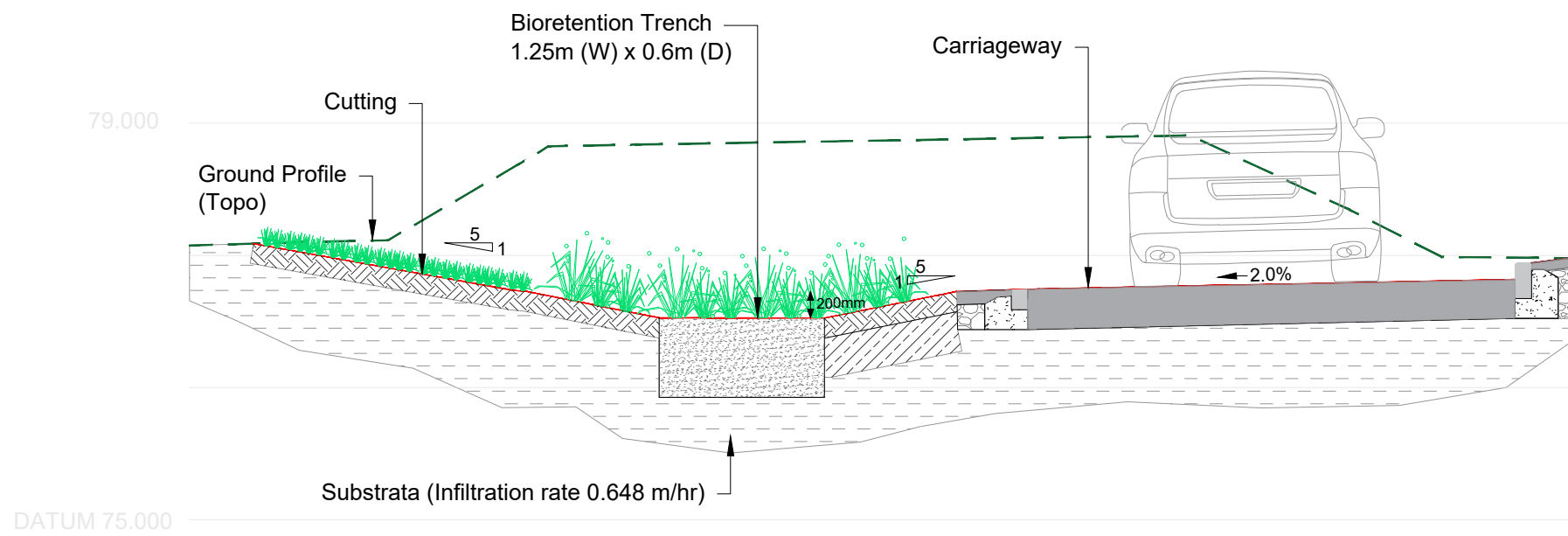
Access Road Infiltration Trench(1)



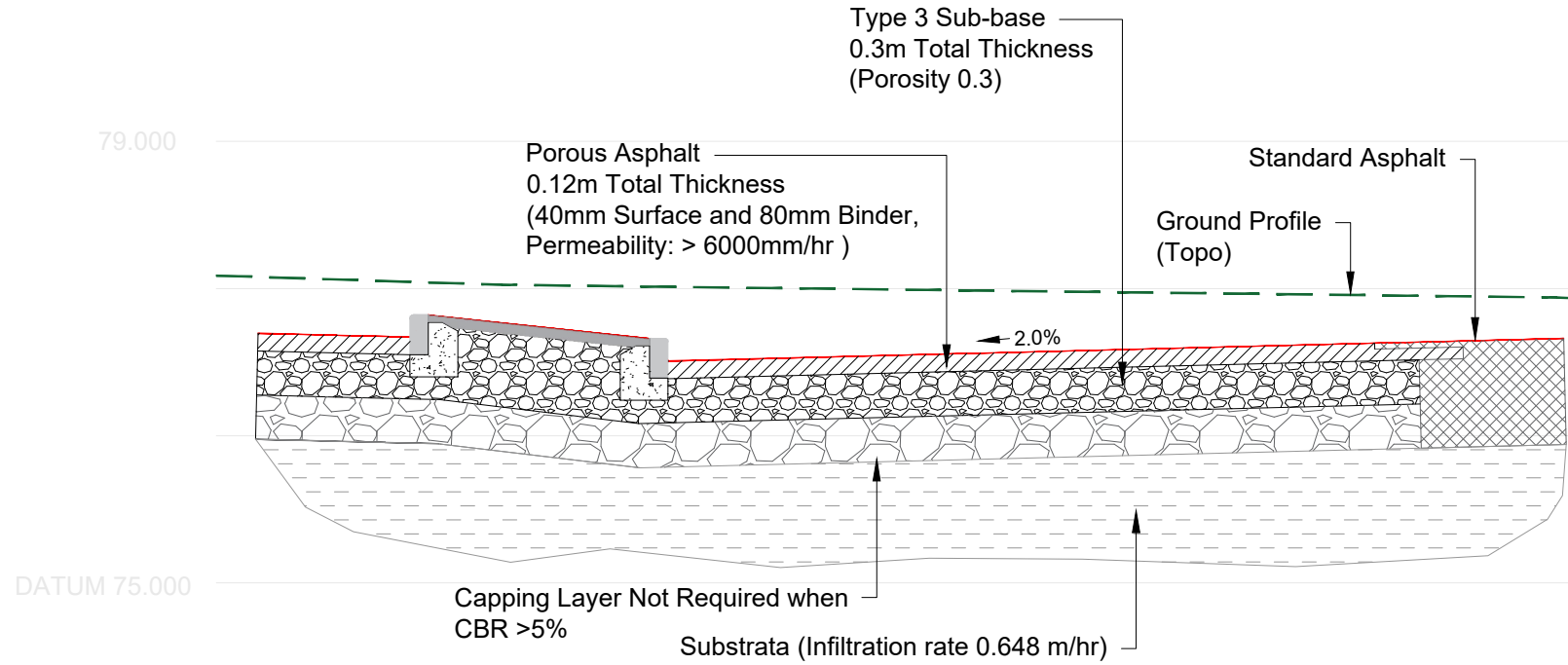
Access Road Bioretention Trench



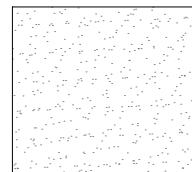
Bioretention Strip



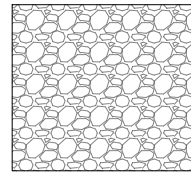
Porous Asphalt Car Park



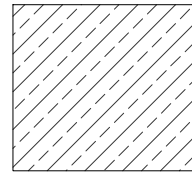
Key



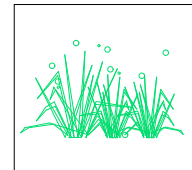
Filter Medium
400mm Thick (minimum)
Permeability 0.3 m/hr
Porosity > 30%
Well Graded Aggregate:
• Clay and silt (<0.063mm) <5%
• Fine sand (0.063 - 0.2mm) <20%
• Medium sand (0.2 - 0.6mm) 35% to 65%
• Coarse sand (0.60 - 2.0mm) 50% to 100%
• Fine gravel (2.0 - 6.0mm) < 10%
Refer to DEP Landscape drawing for further soil constituent requirements not related to drainage function (nutrients, pH etc)



Trench Fill
Type B Filter Drain Material
(20/40 mm BS EN 13242)
Topsoil (BS3882:2007)
150mm Thick (minimum), Refer to DEP Landscape drawing for specific site wide requirements



Engineered soil
300mm Thick (minimum)
Well Graded Aggregate:
• Clay and silt (<0.063mm) <5%
• Fine sand (0.063 - 0.2mm) <20%
• Medium sand (0.2 - 0.6mm) 35% to 65%
• Coarse sand (0.60 - 2.0mm) 50% to 100%
• Fine gravel (2.0 - 6.0mm) < 10%



- NOTES
- THIS DRAWING PRESENTS AN OUTLINE SURFACE WATER DRAINAGE DESIGN AND IS SUBJECT TO CHANGE FOLLOWING CONSULTATION WITH WREXHAM COUNCIL SAB.
 - CIVWAY ACCEPT NO LIABILITY FOR THE ACCURACY OF THE THIRD PARTY TOPOGRAPHICAL SURVEY PROVIDED.
 - CIVWAY ACCEPT NO LIABILITY FOR THE ACCURACY OF THE THIRD PARTY SITE INVESTIGATION REPORT PROVIDED.
 - THIS OUTLINE DESIGN IS BASED ON A SITE INVESTIGATION INFILTRATION RATE REPORTED AS BEING 1.8 l/s/m² or 0.648 m/hr.
 - THE SPECIFICATION IN ALL RESPECTS SHALL BE IN ACCORDANCE WITH THE CURRENT WREXHAM CBC SPECIFICATION AND CONSTRUCTION PUBLICATION IN FORCE IN THE COUNTY AT THE TIME OF CONSTRUCTION.
 - THE DESIGN OF EACH SUDS COMPONENT IS BASED ON GUIDANCE PROVIDED IN CIRIA C753 THE SUDS MANUAL.

Rev.	Revision details	By	Chk.	App.	Date
P1.1	Site layout changed, SuDS amended accordingly.	MH	AR	AR	18.05.21
P01	First issue for design team consideration.				



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CIVIL & HIGHWAYS

Client	EG Euro Garages
Project	Holt Road, Wrexham
Drawn by	MH
Date	15.04.21
Purpose of issue	SAB
Checked by	AR
Date	16.04.21
Approved by	
Date	

Title	
SuDS Typical Cross Sections and Construction Details	
Drawing No.	Rev.
CIV21105-P-501	P01.1