

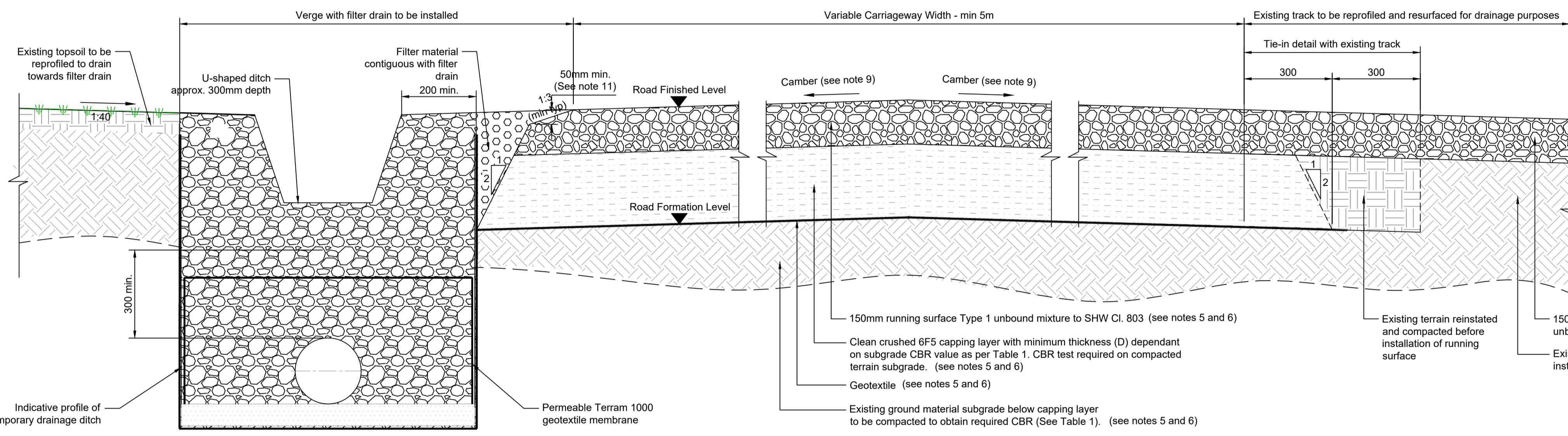
**GRAVEL ROAD CROSS SECTION (SUPER-ELEVATED)**  
Scale 1:10

CBR%	EITHER	
	DEPTH OF CAPPING LAYER (mm)	DEPTH OF WEARING COURSE (mm)
<2	D=600	150
3	D=350	150
4	D=300	150
5-8	D=250	150
8-10	D=210	150
10-15	D=180	150
>15	-	150

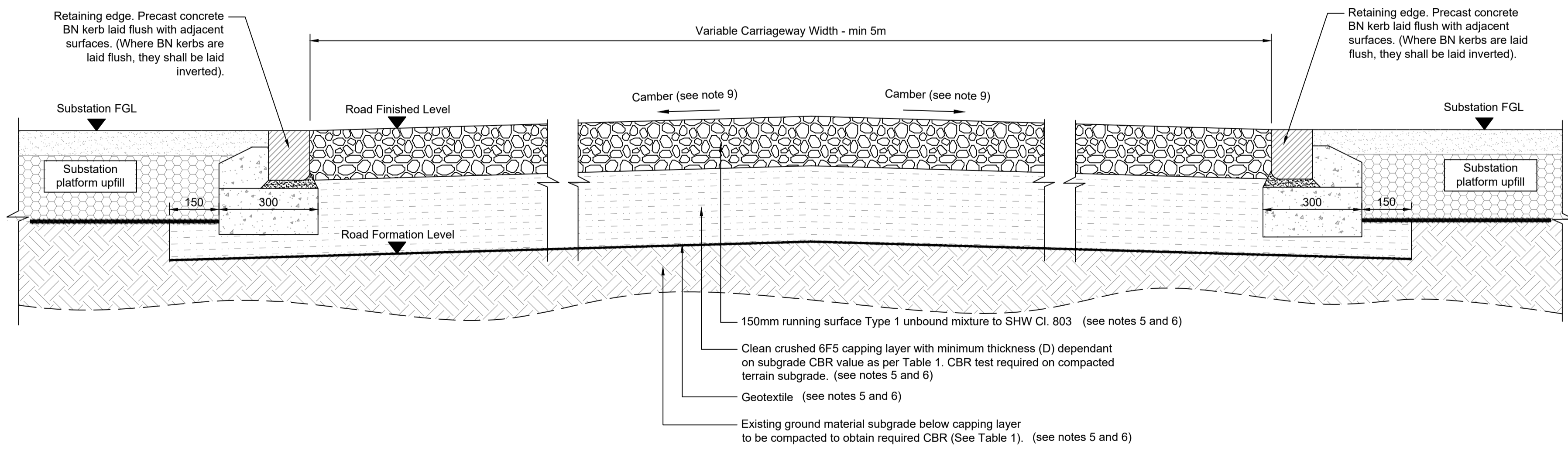
TABLE 1 based on Design Manual for Roads and Bridges (DMRB), Pavement Design CD225, Design for new pavement foundations

- NOTES:**
- THIS DRAWING IS FOR PLANNING PURPOSES ONLY SUBJECT TO DETAILED DESIGN.
  - DO NOT SCALE FROM THIS DRAWING. USE ONLY SPECIFIED DIMENSIONS.
  - ALL DIMENSIONS ARE IN MILLIMETRES UNLESS NOTED OTHERWISE.
  - ALL LEVELS ARE IN METRES TO ORDNANCE DATUM UNLESS NOTED OTHERWISE.
  - THE PAVEMENT LAYERS AND DEPTHS ARE ADOPTED AS ASSUMPTIONS CONSIDERING THAT THE GROUND INVESTIGATION REPORT FOR THE LOCATION HAS NOT BEEN COMPLETED.
  - THIS DESIGN IS PROVIDED INDICATIVELY ONLY. THIS DESIGN HAS NOT BEEN COMPLETED WITH AN AVAILABLE GEOTECHNICAL INTERPRETATIVE REPORT AND THEREFORE NO DETAILED ENGINEERING PARAMETERS HAVE BEEN USED. THE DESIGN IS TO BE VALIDATED UPON INTERPRETATION OF THE GROUND INVESTIGATION DATA AND FURTHER DESIGNS/SPECIFICATIONS ARE TO BE PROVIDED AT A LATER DESIGN STAGE.
  - IN-SITU SUBGRADE CBR TO BE TESTED PRIOR TO CONSTRUCTION. NOTE THAT SUBGRADE CBR REDUCES WITH INCREASED WATER CONTENT. AS SUCH, SUBGRADE CONDITIONS ARE AT RISK OF CHANGE FROM THOSE IN PREVIOUS GIS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR INTERPRETING THE CBR RESULTS AND SELECTING THE DESIGN APPLICABLE TO EACH SECTION OF THE ROAD AT THE POINT OF CONSTRUCTION.
  - WHERE SUBGRADE CBR VALUES ARE LESS THAN 2.5% OR ORGANIC MATERIAL SUCH AS PEAT IS ENCOUNTERED AN ALTERNATIVE PAVEMENT CONSTRUCTION WILL BE REQUIRED.
  - TRAFFIC LOADING, AND THEREFORE, ROAD PAVEMENT DESIGN TO BE CONFIRMED AT DETAILED DESIGN.
  - BALANCED ROAD CAMBER GRADIENT TO BE WITHIN 1:40 (MAX) AND 1:60 (MIN) TO PREVENT STANDING WATER. CAMBER GRADIENT TO VARY GRADUALLY TO ALLOW FOR A SMOOTH TRANSITION FROM SECTIONS WITH SINGLE CROSSFALL GRADIENT.
  - CROSSFALL GRADIENT IN SUPER ELEVATED SECTIONS TO BE 1:40 (MAX). CROSSFALL GRADIENT TO VARY GRADUALLY TO ALLOW FOR A SMOOTH TRANSITION TO CAMBERED ROAD SECTIONS.
  - GRAVEL ROAD SHALL BE INSTALLED A MINIMUM 50mm PROUD OF THE EXISTING GROUND LEVEL EXCEPT WHERE IN CUTTING.
  - THE GRAVEL ROAD IS DESIGNED ON AN ASSUMED TRAFFIC LOADING OF 90,000 AXEL PASSES. LOADING TO BE CONFIRMED AT DETAILED DESIGN. THE PAVEMENT DESIGN CRITERION IS A 75mm ALLOWABLE RUT DEPTH, SO RUTTING MUST BE EXPECTED. TYPE 1 AND CLASS 6F2 MATERIALS ARE NOT INTENDED FOR RUNNING SURFACES AND ARE CONSIDERED LIKELY TO DETERIORATE UNDER EXPOSURE AND TRAFFICKING. IT IS ASSUMED THAT REGULAR MAINTENANCE WILL BE PROVIDED TO MITIGATE DEGRADATION AND STANDING WATER. BY PLACING AND COMPACTING ADDITIONAL MATERIAL TO INFILL RUTS AND OTHER SURFACE IRREGULARITIES. FURTHER MAINTENANCE SHOULD BE EXPECTED WHERE ADVERSE WEATHER CONDITIONS ACT TO ACCELERATE DEGRADATION.

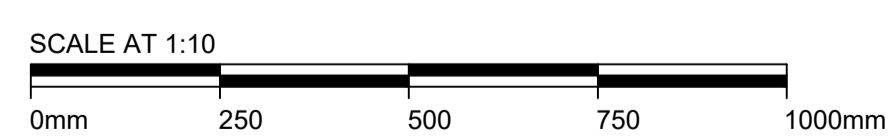
- REFERENCE DRAWINGS:**
- GENERAL ARRANGEMENT - 162507-BMD-CE-HR-DGA-TP-0001
  - SITE ACCESS PLAN - 162507-BMD-ZR-HR-DSP-TP-0001



**CROWNED GRAVEL ROAD CROSS SECTION (BALANCED)**  
Scale 1:10



**CROWNED GRAVEL ROAD CROSS SECTION (BALANCED)**  
Scale 1:10



**SHE HAZARD BOX**

IN ADDITION TO THE HAZARDS / RISKS NORMALLY ASSOCIATED WITH THE TYPES OF WORKS DETAILED ON THIS DRAWING, NOTE THE FOLLOWING SPECIFIC HAZARDS WHICH REQUIRE SPECIAL CONSIDERATIONS

<b>CONSTRUCTION</b>	N/A
<b>MAINTENANCE / CLEANING / OPERATION</b>	N/A
<b>DECOMMISSIONING / DEMOLITION</b>	N/A

Issue / Revision:	01	Drawn By:	RB
Investment No.:	N/A	Checked By:	JF
Date:	27/SEP/24	Approved By:	RC
Description / Remarks			
ISSUED FOR PLANNING			

<b>Drawing Status:</b> ISSUED FOR PLANNING			
<b>Software:</b> AUTOCAD	<b>Status Code:</b> Not Used	<b>Scale:</b> 1:10	<b>Paper Size:</b> A1
<b>Drawn By:</b> RB	<b>Checked By:</b> JF	<b>Approved By:</b> RC	<b>Date:</b> 27/SEP/24
<b>Contractor:</b> <b>BURNS &amp; McDONNELL</b>			
<b>Client:</b> Scottish & Southern Electricity Networks		<b>Supplier / Subcontractor:</b>	
<b>Drawing Title:</b> SITE ACCESS ROAD SECTIONS AND DETAILS			
<b>Project Name:</b> HURLIE 400KV SUBSTATION			
<b>Site Name:</b> HURLIE 400KV SUBSTATION			
<b>Contractor Drawing No.:</b> 162507-BMD-CE-HR-DDE-TP-0002			
<b>Client Drawing No.:</b> 162507-BMD-CE-HR-DDE-TP-0002		<b>Sheet:</b> 1 OF 1	
<b>Supplier / Subcontractor Drawing No.:</b> XXX		<b>Issue / Revision:</b> 01	

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