

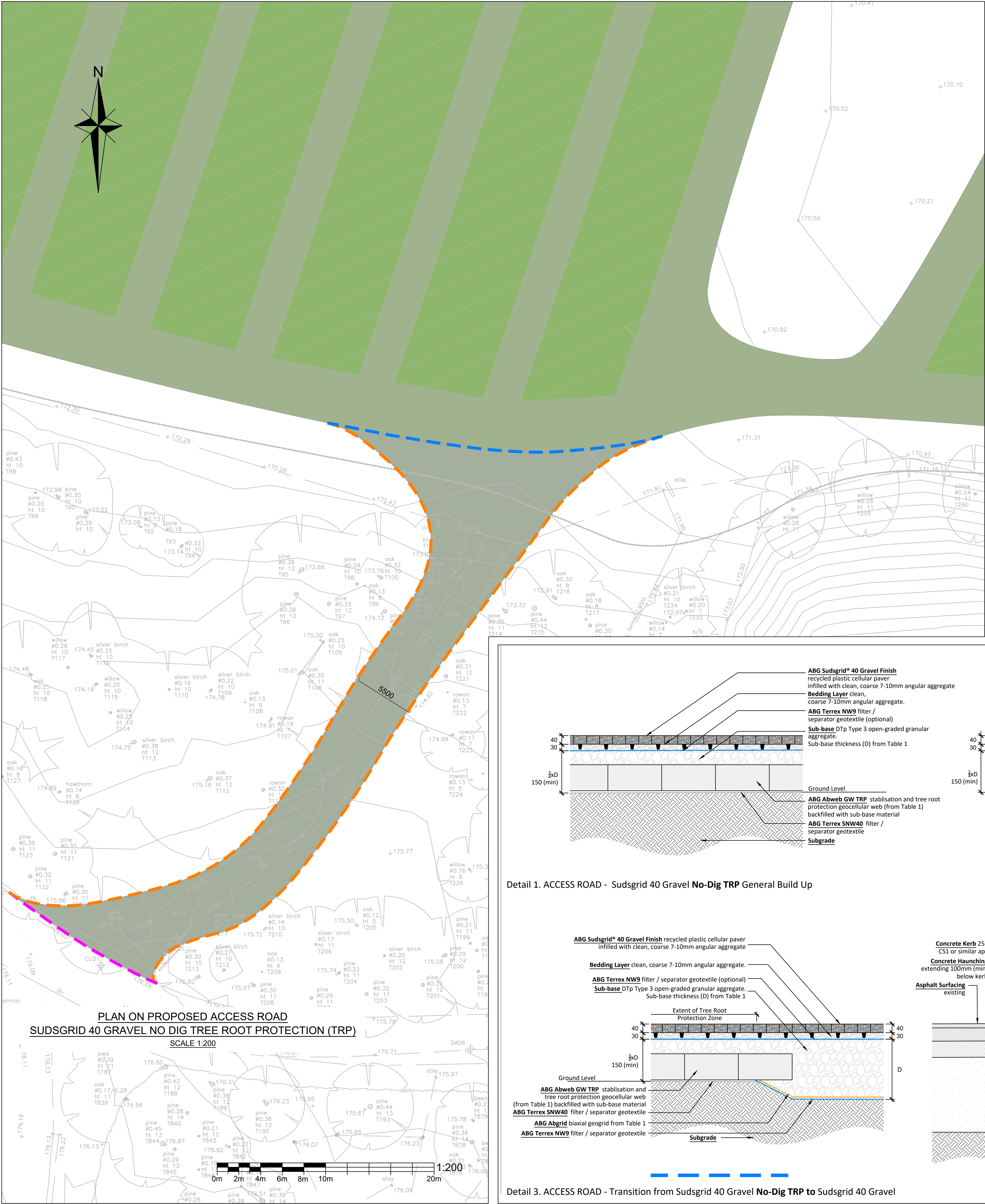
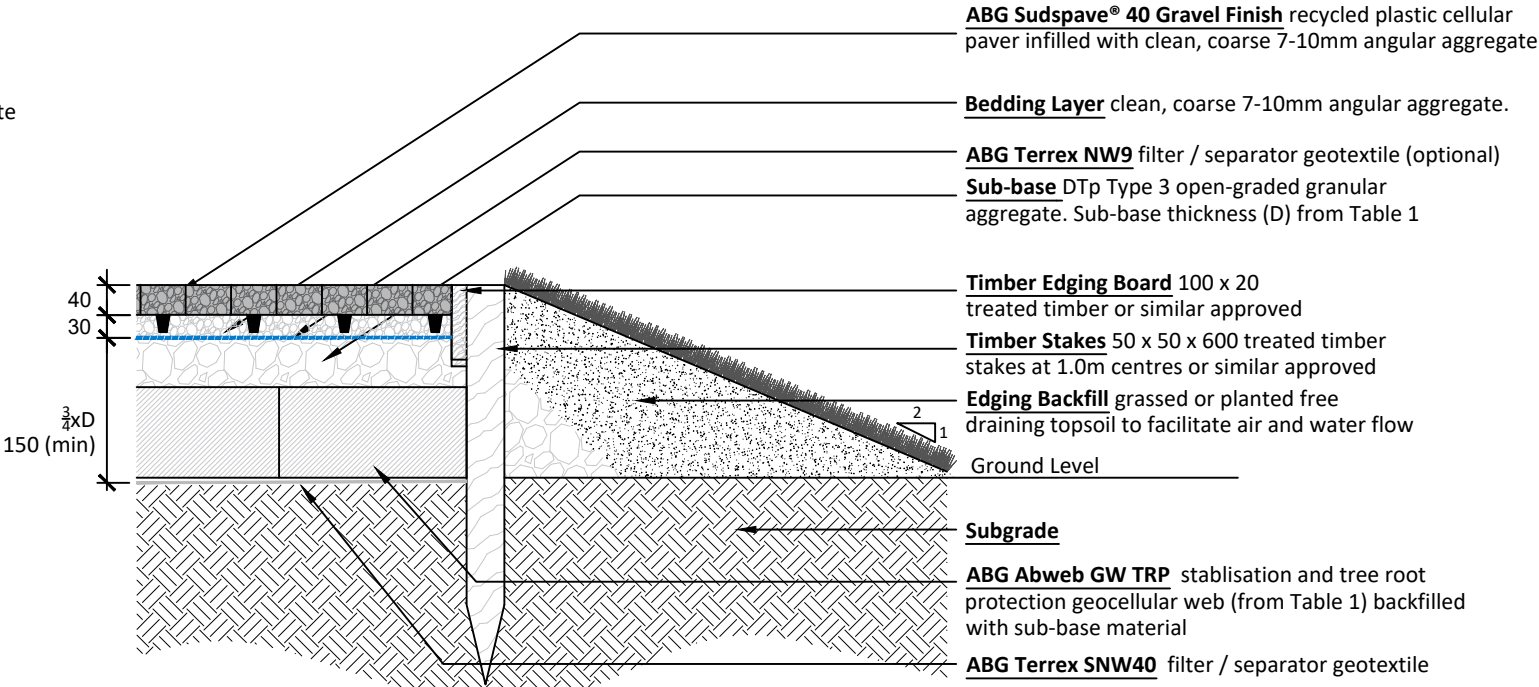
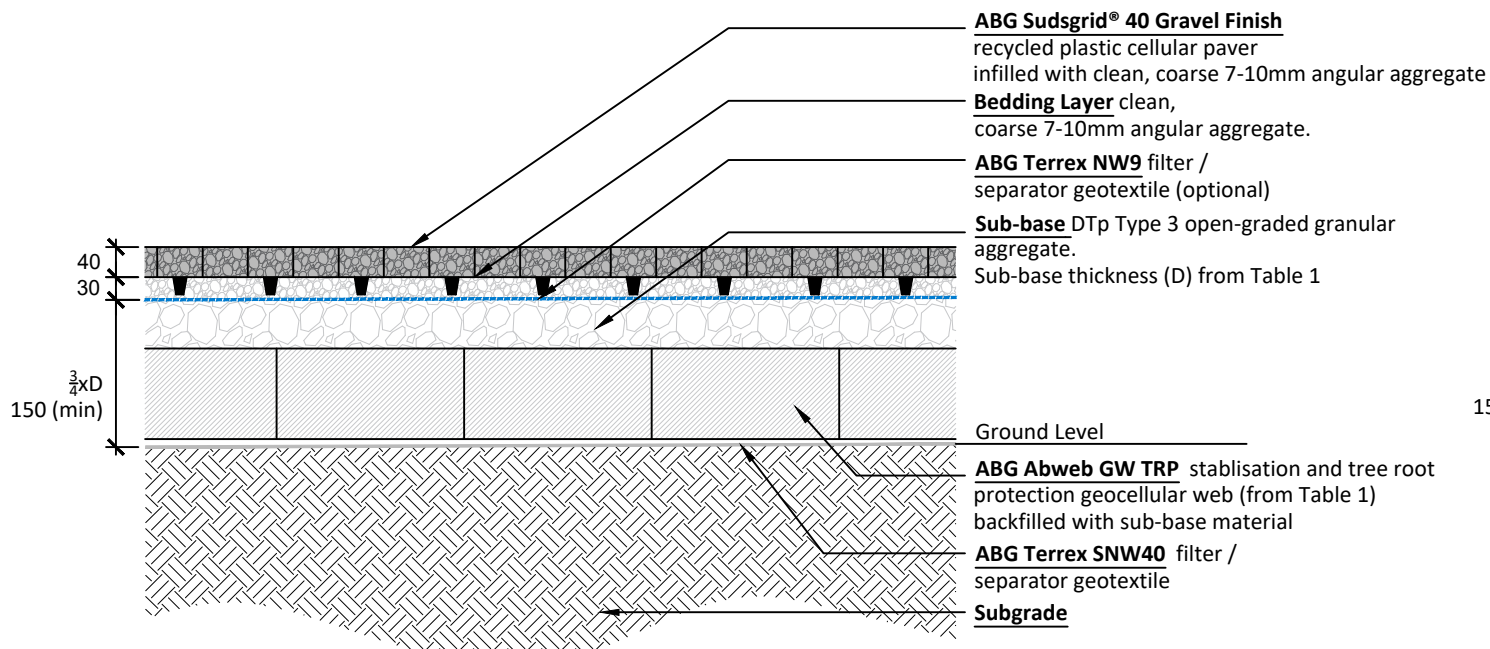
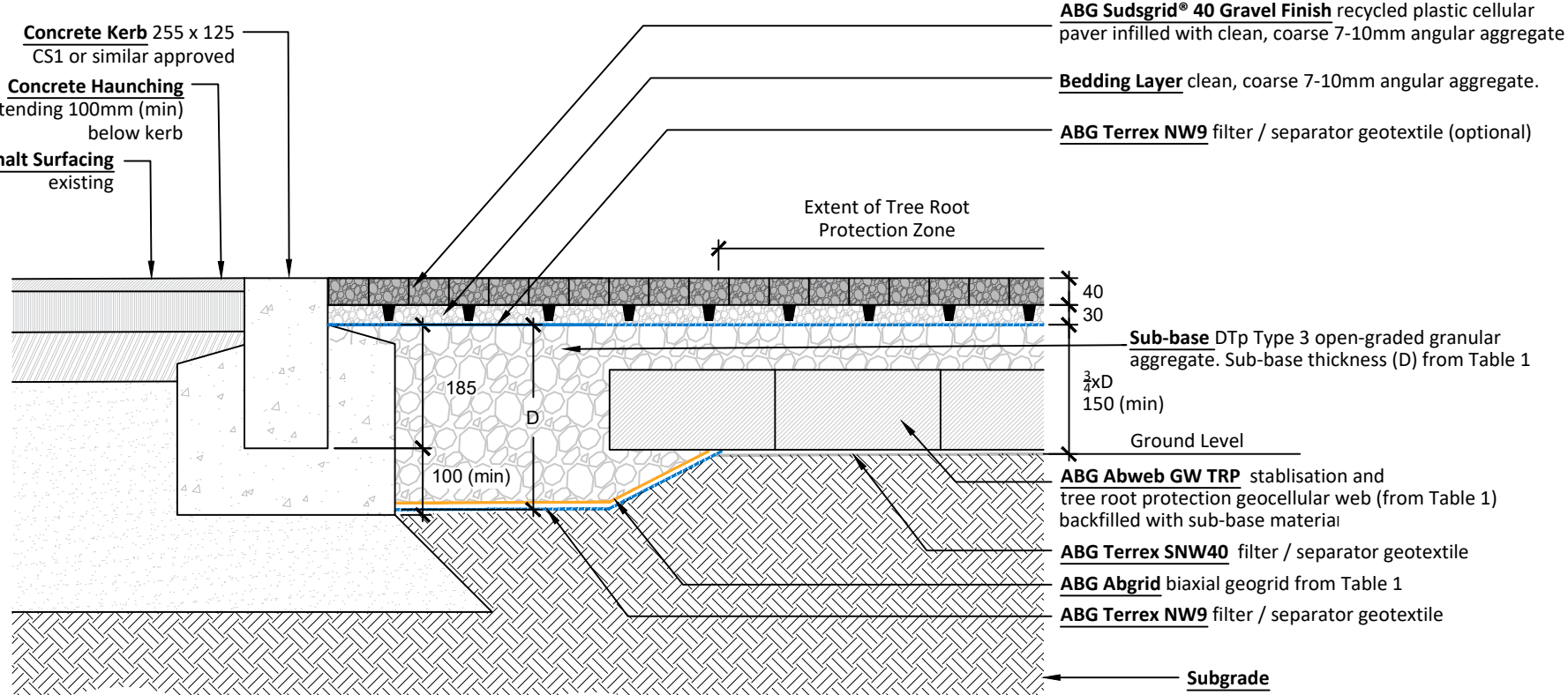
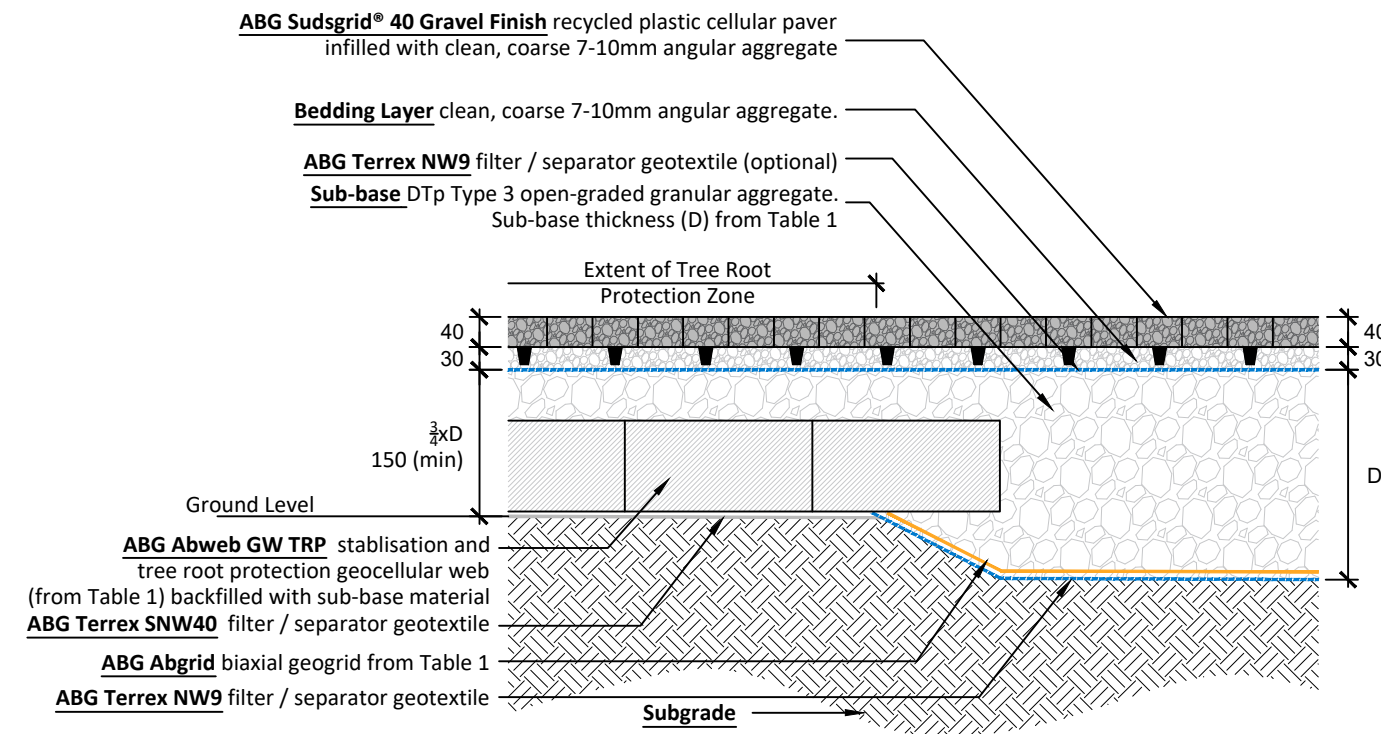


Table 1: Sudsgrid® DTP Type 3 sub-base thickness (D) requirements					
Area	Vehicle load and frequency	CBR strength of subgrade soil (%)	DTP Type 3 sub-base thickness (D, mm)	ABG Abgrid Geogrid	ABG Abweb GW TRP
ACCESS ROAD Sudsgrid 40 Gravel No-Dig TRP	Light vehicles only with emergency HGV access	=1 < 2	300	30/30	200/300
CAR PARK CIRCULATION AREAS Sudsgrid 40 Gravel	Light vehicles only with emergency HGV access	=1 < 2	300	30/30	N/A
CAR PARK PARKING BAYS Sudsgrid 40 Grass	Light vehicles only with emergency HGV access	=1 < 2	300	30/30	N/A



Detail 1. ACCESS ROAD - Sudsgrid 40 Gravel No-Dig TRP General Build Up

Detail 2. ACCESS ROAD - Sudsgrid 40 Gravel No-Dig TRP Edge Detail



Detail 3. ACCESS ROAD - Transition from Sudsgrid 40 Gravel No-Dig TRP to Sudsgrid 40 Gravel

Detail 4. ACCESS ROAD - Transition from Existing Asphalt Surfacing to Sudsgrid 40 No Dig TRP Gravel

THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL OTHER HBL DRAWINGS ISSUED FOR THIS PROJECT

- Notes:**
- The ABG Sudsgrid® 40 Gravel Finish infill material and bedding layers shall comprise porous, clean angular aggregate: 3-14mm particle size, with greater proportion in 7-10mm range, and in accordance with Table A.3 of BS 7533-13.
 - The Sudsgrid No Dig TRP edging backfill, shall comprise grassed or planted good quality, free draining, friable topsoil with no contaminants or oversized debris.
 - The Sub-base shall be Department for Transport (DTP) Type 3 open-graded granular aggregate in accordance with the Manual of Contract Documents for Highway Works, Volume 1 Specification for Highway Works (SHW), Series 800, Clause 805. The aggregate must have a permeability of 10^{-3} m/s or more.
 - Where ABG Gravel No-Dig TRP access road is used initially for Construction Traffic, the Abweb should be installed with a sacrificial layer of ABG Terrax NW9 geotextile above the Abweb layer, and covered with a surcharge /sacrificial layer of DTP Type 1 stone providing the running course for construction traffic without damaging the Abweb. The sacrificial layer should be removed prior to final Sudsgrid 40 Gravel being installed.
 - For further information regarding any of the products/details shown in this drawing please refer to ABG website (<http://www.abg-geosynthetics.com/products/sudsgrid.html>) or contact ABG who will be pleased to provide you with technical information and site specific designs as required.

- LEGEND**
- ABG SUDSGRID® 40 GRAVEL NO - DIG TRP ROAD AREAS - Detail 1 461m² (APPROX)
 - TIMBER EDGEING - Detail 2 142.5m
 - LINE OF TRANSITION ACCESS ROAD SUDSGRID 40 GRAVEL (TRP) TO PROPOSED CARPARK SUDSGRID GRAVEL 40 - Detail 3 31.0m
 - PRECAST CONCRETE TO EXISTING TARMAC ROAD - Detail 4 16.0m

REV.	DATE	DRAWN	DESCRIPTION	CHKD	APPRD
P4	OCT'21	ES	NOTE : "DO NOT SCALE FROM THIS DRAWING" REMOVED	HL	HL
P3	JUL'21	ES	DETAILS REVISED	HL	HL
P2	JULY'21	AP	CONSTRUCTION DETAILS REVISED	AP	HL
P1	JUN'19	HM	ROAD LAYOUT REVISED	HL	HL
P0	JAN'19	TAT	PRELIMINARY FOR INFORMATION	HL	HL

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STATUS			
PRELIMINARY FOR INFORMATION			
CLIENT	MERLIN ENTERTAINMENTS LTD	DRAWN	T.A.TAYLOR
PROJECT	ATR CAR PARK PROJECT	CHECKED	H.LONG
LOCATION	ALTON TOWERS	APPROVED	H.LONG
DRAWING TITLE	ACCESS ROAD PLAN AND DETAILS	DATE	JANUARY 2019
		SCALE(S)	1:200, 1:10
DRAWING No.	002	HBL REF.	7271
		REVISION	P4