

**EXISTING RAISED TRACKWAYS:**

An assessment of geo-environmental ground conditions (Supplementary Ground Conditions Assessment Report 20189-GCA-01) undertaken by Jubb within Area D determined that raised trackways had been formed from granular residual soils (clayey gravelly SANDS), which have been used to form an embankment of varying heights.

CBR results undertaken along the line of the existing trackways suggest that a reasonable worst case CBR value of 3% is recommended for the site.

The access road construction specification is based on design recommendations by the Forestry Civil Engineering - FCE - which is the civil engineering arm of the Forestry Commission. Reference: The design and use of the structural pavement of unsealed roads - 2014 - Access roads open to the public in private cars.

Total Thickness of pavement required for CBR value of 3% is 550mm

**SHALLOW CONVEYANCE CHANNEL TO GRAVEL ACCESS TRACK:**

Crossfalls of 2.5% (1 in 40) should be provided to the gravel access tracks to enable surface water to runoff into conveyance channels. The conveyance channel is located to the low side of the proposed gravel access track with longitudinal falls being constrained to 0.5% (1:200) to enable them to marry in with existing road levels. Surface water runoff is then conveyed to a piped outlet which will discharge to downstream SuDs components (either the pond to the West Carclaze Mica Dam or to the Great Treverbyn Lake).

**ACCESS ROAD CONSTRUCTION:**

**Road Metal / Gravel Surfacing Layer:**

A minimum compacted surfacing thickness of 100mm of hard wearing well bound continuously graded aggregate. The top 100mm of pavement must be of a durable stone that will not break down under wheel loading and be suitable for grading and rolling.

**Sub-Base:**

150mm minimum thick granular material Type 1 to Specification for Highway Works Clause 803  
Granular material to be laid in accordance with Specification for Highway Works Clause 802.

**Capping Layer:**

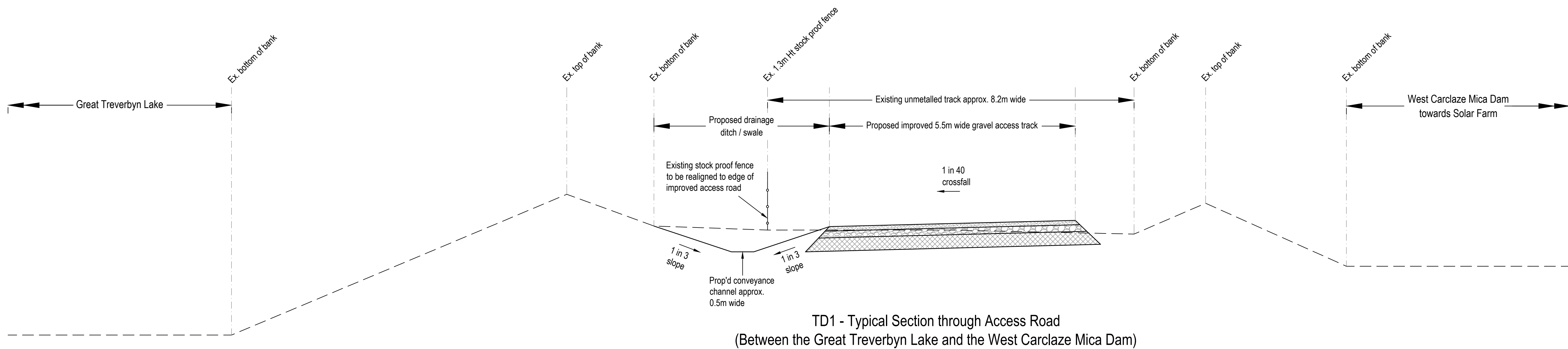
300mm thick granular material Type 6F1 to Specification for Highway Works Clause 613  
Granular material laid in accordance with Specification for Highway Works Clause 612.

**Subgrade:**

Upon achieving satisfactory levels at formation the area shall be proof rolled with 8 passes of a vibratory roller having a mass per metre width of roll between 2900 and 3600 kg.

**NOTES:**

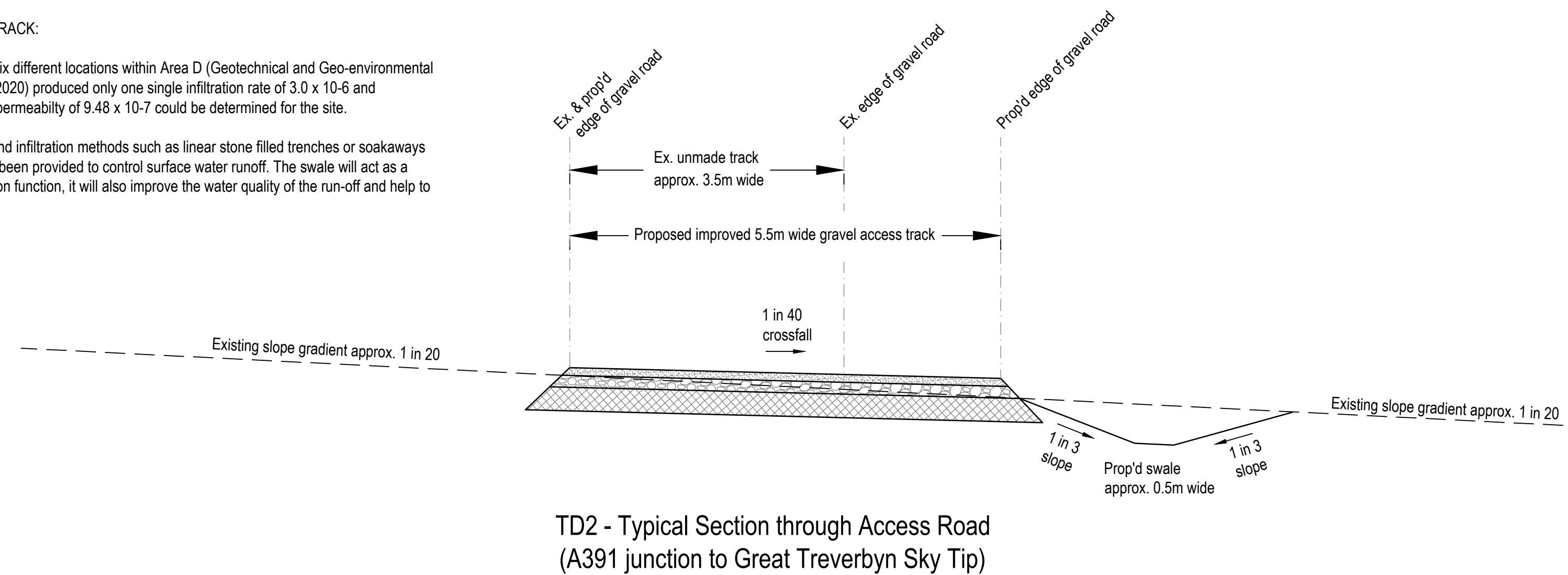
- Any soft spots encountered are to be removed and backfilled in compacted layers with Type 6F1 material.



**SHALLOW SWALE TO GRAVEL ACCESS TRACK:**

Preliminary soakaway testing undertaken at six different locations within Area D (Geotechnical and Geo-environmental Assessment Report - SW Geotechnical July 2020) produced only one single infiltration rate of  $3.0 \times 10^{-6}$  and concluded that based on Hazens Rule a soil permeability of  $9.48 \times 10^{-7}$  could be determined for the site.

Due to the low infiltration capacity of the ground infiltration methods such as linear stone filled trenches or soakaways are unsuitable therefore a shallow swale has been provided to control surface water runoff. The swale will act as a storage detention system with a slow infiltration function, it will also improve the water quality of the run-off and help to control sedimentation.



**Notes:**

- To be read in conjunction with Jubb Allotment Access Road General Arrangement Layout drawings 20189\_613 and 20189\_614.

Rev	Date	Description	By	Apvd
P1	07:10:21	Preliminary 'First Issue'	EPH	KM

**PROJECT:**  
WEST CARCLAZE GARDEN VILLAGE  
AREA D

**TITLE:**  
ALLOTMENT ACCESS ROAD  
TYPICAL CONSTRUCTION DETAILS

**CLIENT:**  
ECO-BOS

**SCALE@A1:**  
1:50 N

**PROJECT REF:**  
20189  
**DRAWING No:**  
614

**REV:**  
P1

**Revision Referencing**  
P = Preliminary A = Approval T = Tender C = Construction

