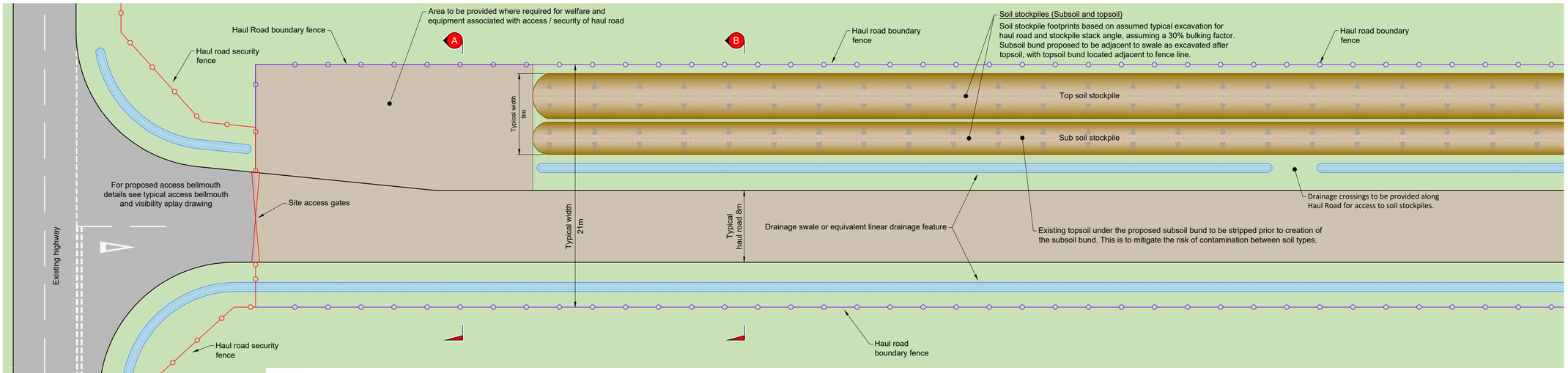
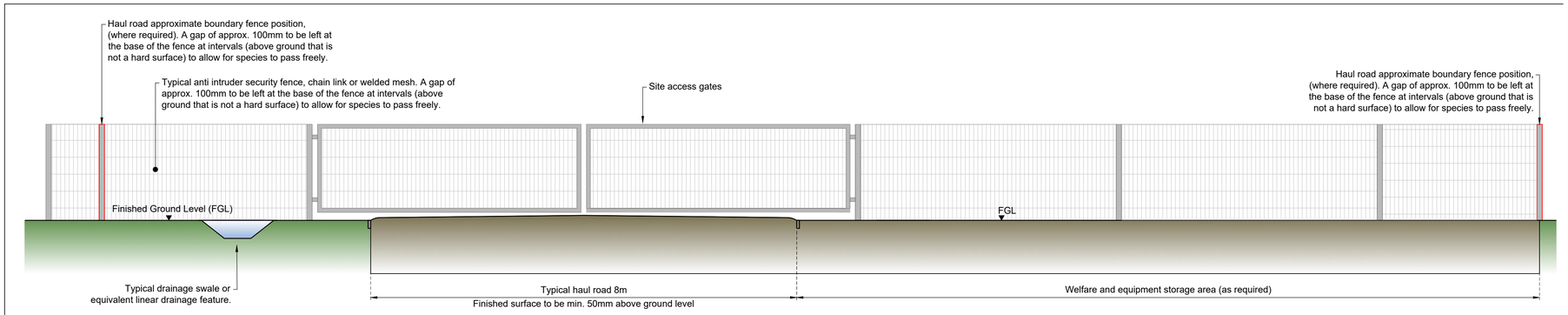
NATIONAL GRID
(NORWICH TO TILBURY)
S.42 CONSULTATION TYPICAL HAUL ROAD CROSS SECTION
SHEET 1 OF 1

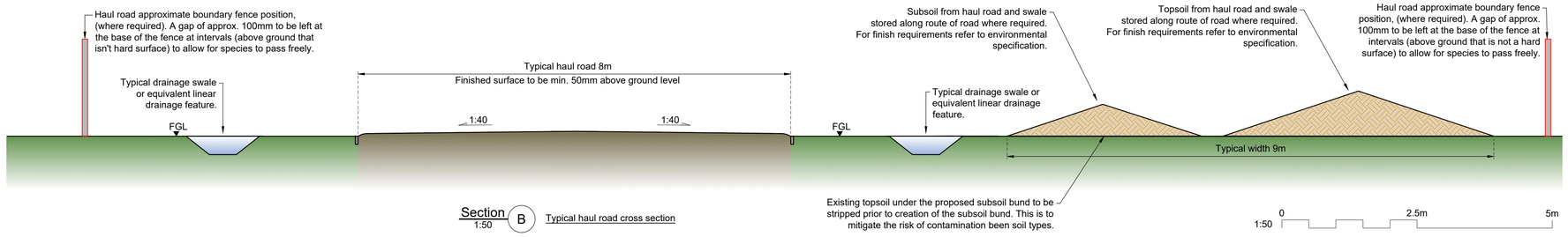


Plan View
1:250

1:250 0 12.5m 25m



Section A 1:50 — Typical haul road cross section at bellmouth connections to Public/Private Highways

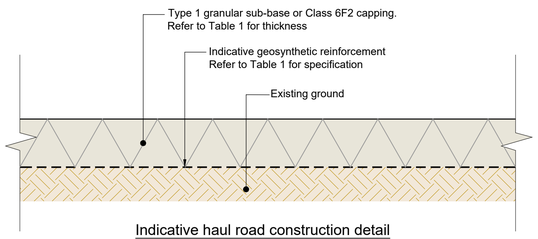


Section B 1:50 — Typical haul road cross section

1:50 0 2.5m 5m

Notes

1. This drawing is scaled at paper size A1, therefore any prints taken at smaller sizes will affect accuracy of the measurement units and should not be scaled against.
2. All dimensions are in metres unless otherwise shown. All levels are in metres above Ordnance Datum (AOD). All dimensions & levels should be checked on site.
3. Any drawing errors or discrepancies should be brought to the attention of Mott MacDonald.
4. The proposed arrangement is shown for indicative purposes only. Dimensions and design may vary depending upon site and installation conditions.
5. The drawing does not include any information on underground drainage, utilities, or other assets which may need to be protected or diverted as part of works
6. Heights and specification of haul road security fence and boundary fence to vary depending on the security and environmental requirements of specific site locations
7. Typical drainage swales shown indicatively to illustrate potential drainage arrangement. Drainage specification and dimensions subject to change, and may vary depending on local ground conditions.
8. For haul road construction build up calculations, refer to Equivalent Single Axle Load (ESAL) calculations.
9. Visual inspections of the haul road are to be carried out for the duration of the construction period and any necessary maintenance works completed where required. Where the build up of standing water is present, the depressed area will be filled and re-profiled.
10. Bund sizing will vary dependant on site specific soil conditions.
11. Arrangement of soil stockpiles within section may vary dependant on site specific constraints.
12. Drawing must be read in colour and is for illustrative purposes only. Dimensions are indicative and are subject to variation and amendments.



Indicative haul road construction detail
Not to Scale

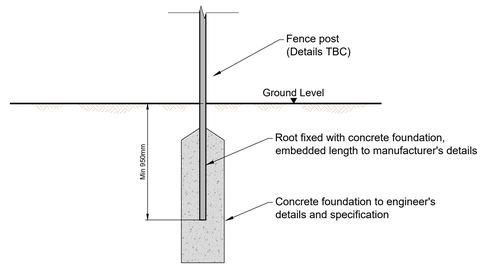
Note: Haul road construction detail is based on sample of potential haul road construction type and materials for preliminary purposes only. All details are subject to updates at the details design stage

	1% CBR		5% CBR		9% CBR		> 9% CBR	
	Reinforced	Unreinforced	Reinforced	Unreinforced	Reinforced	Unreinforced	Reinforced	Unreinforced
Class 6F2 Capping	490	710	210	420	200	270	200	270
Type 1 sub-base	460	670	200	320	200	210	200	210
Reinforcement	Naue Combigrid 40/40		Naue Secugrid 40/40				None	

Table 1: Haul road construction thickness

Notes:

A. Haul road construction is conservatively based on 36,000 passes of a 57.5 kN road legal maximum wheel load.
B. As per the ESAL equivalency factors, the effects of light vehicle loads are considered to be negligible.
C. Wheel loads have been assumed at the maximum value for road legal vehicles of 57.5kN.
D. Tyre pressures have been assumed at a typical HGV value of 1100kPa.
E. Resilient moduli have been taken as 70 MPa for Class 6F32 capping and 150 MPa for Type 1 sub-base.
F. Thicknesses may need to be adjusted to suit topsoil thickness - to be confirmed.
G. Proposed geogrid reinforcement products only. No substitutions will be acceptable.
H. Floating roads on peat may require a pavement design for less than 1% California Bearing Ratio (CBR) - to be confirmed.



Typical fence post foundation
Not to Scale

Issue	Date	Remarks	Drawn	Checked	Approved
A	April 2024	FOR STATUTORY CONSULTATION	LWR	WES	DR

Title
NATIONAL GRID
(NORWICH TO TILBURY)
S.42 CONSULTATION TYPICAL HAUL ROAD CROSS SECTION
SHEET 1 OF 1

nationalgrid

Application Number

National Grid Drawing Reference
AENC-NG-ENG-DWG-0003

Scale	Sheet Size	Sheet	Issue
As Shown	A1	SHEET 1 OF 1	A