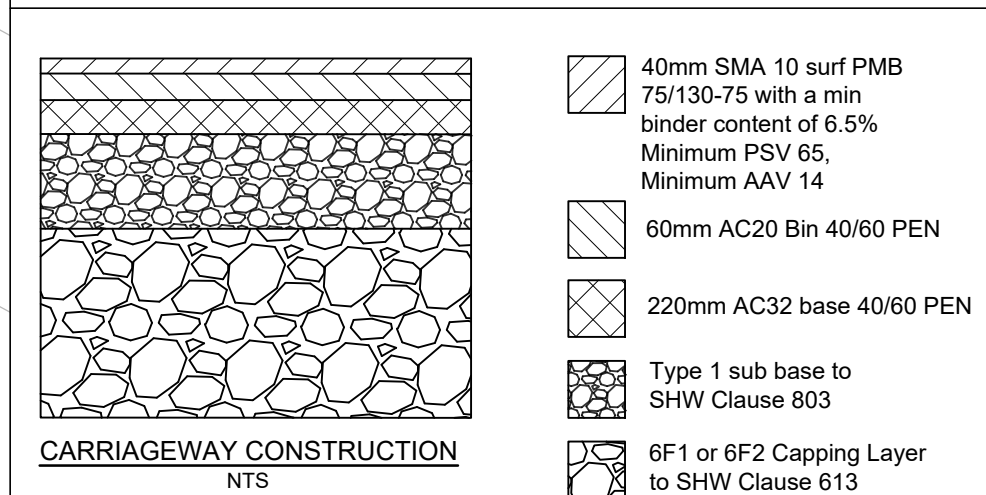
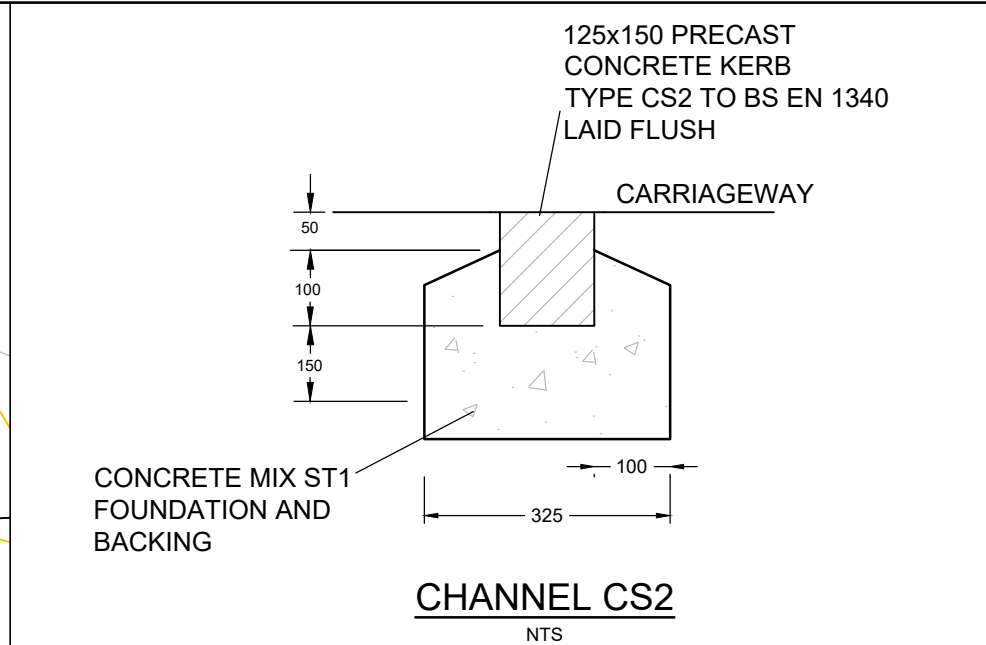
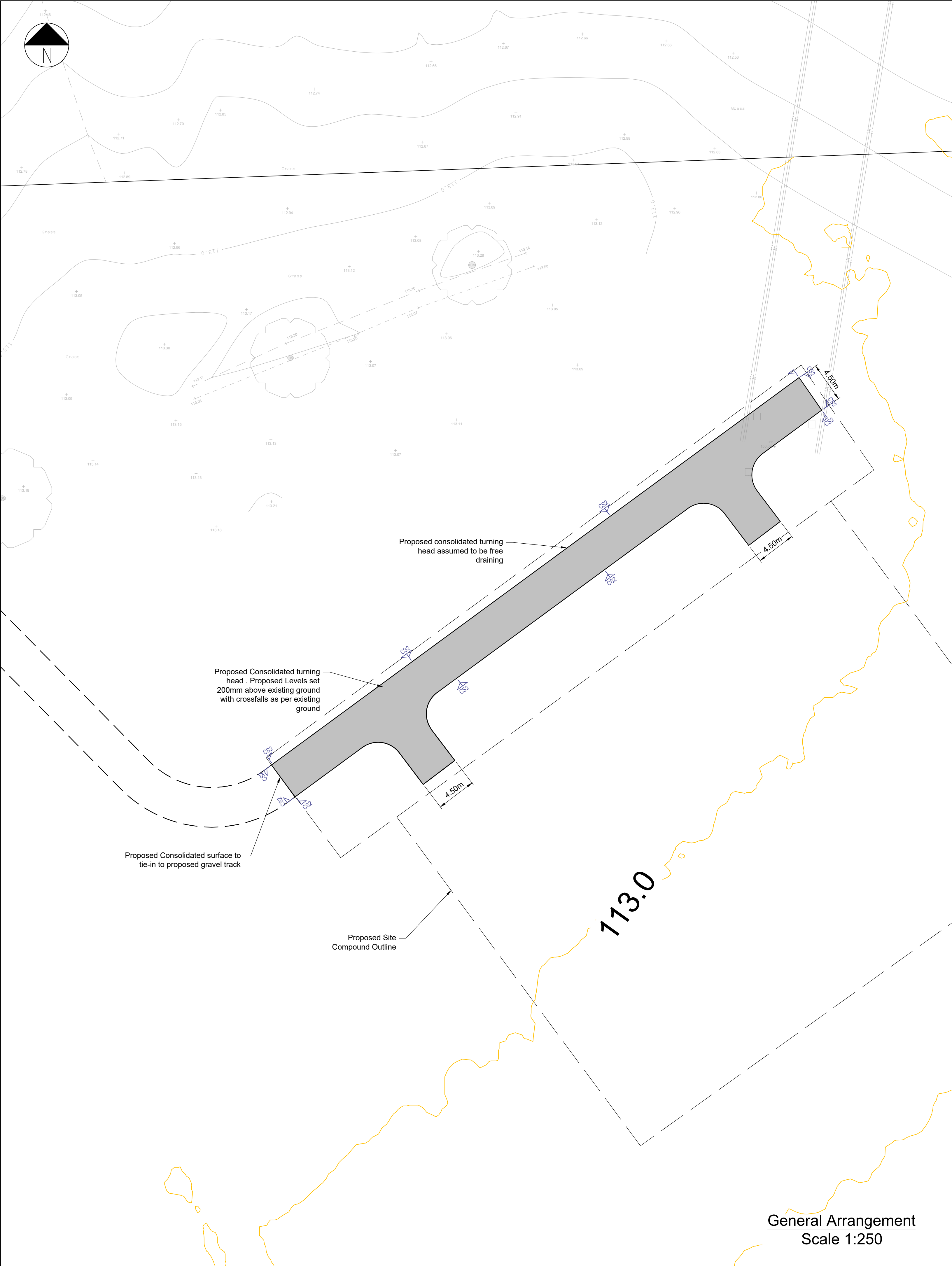
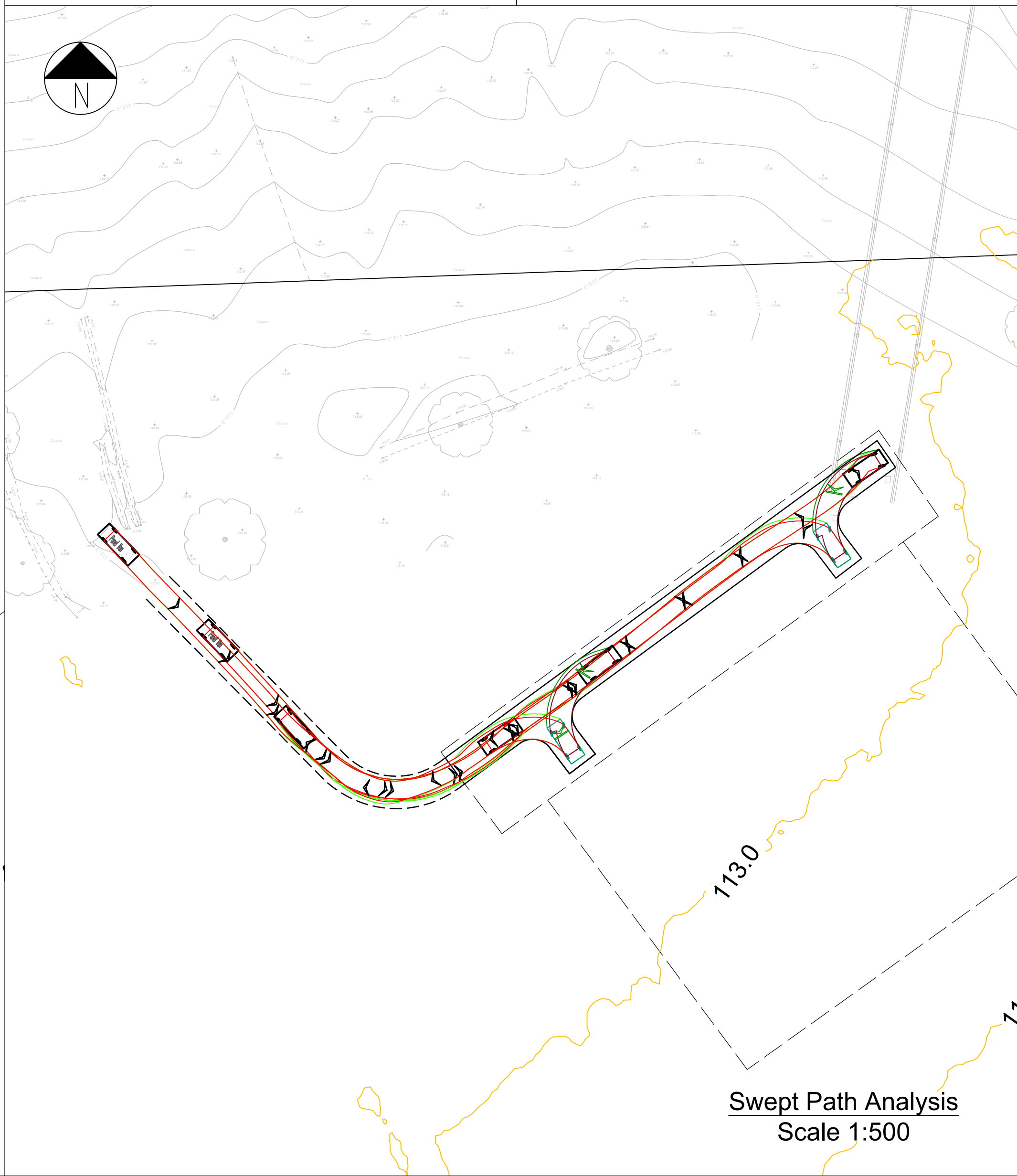




SUB BASE & CAPPING LAYER				
Subgrade CBR	Capping Layer Thickness (mm)		Sub Base Thickness (mm)	Foundation Type
CBR> 15%	150	and	150	2
CBR> 10% - 15%	200	and	150	2
CBR> 5% - 10%	250	and	200	2
CBR> 2.5% - 5%	420	and	250	2
CBR < 2.5%	FOR CBR'S LESS THAN 2.5% SUBGRADE DESIGN TO INCORPORATE GEOTEXTILE OR SOIL STABILISATION TO BE PROPOSED			

Refer to Wiltshire County Council Drawing WC-HCD-700-D001

- Notes
1. Refer to drawing WC-HCD-700-D002, for requirements for road pavement widening and tie in details.
 2. CBR testing shall be undertaken in accordance with Wiltshire Councils California Bearing Ratio (CBR) Testing: Guidance document. This shall include but is not limited to CBR testing of the subgrade at preliminary road pavement plus road pavement foundation design depth.
 3. Where a CBR value is less than 2.5% options for improvement of the subgrade must be included in the design. Options for improvement of the subgrade include excavation and replacing between 500 to 1000 of the soft subgrade with granular fill, mechanical stabilisation (geogrids and/or geotextiles) and soil stabilisation. Following ground improvement works, the CBR test shall be undertaken again, a minimum of 2.5% is required prior to placing road pavement foundation layers using the guidance layer thickness in table 2.
 4. Geogrid ground reinforcement will not be permitted where this conflicts with proposed or existing underground service utilities within the road pavement. A separate service utilities corridor within the verge, footway or adjacent land shall be included in the scheme proposal. The designer or developer shall submit the service utilities design for diversion, protection and new services, this shall form part of the technical approval.
 5. Capping layers shall be to MCHW Clause 613 Types 6F1, 6F2, 6F3 site won, and 6F4, 6F5 imported materials.
 6. Sub-base layers shall be to MCHW Clauses 803, 804, 806 and 807.
 7. SMA PMB surface course materials shall conform with the binder grade, binder content and texture depth properties listed on this drawing. A product specification with the following performance characteristics shall be submitted to Wiltshire Council for approval:
 - a) Durability - Initial macrotexture depth
 - b) Durability - Trafficked (2 years after opening) macrotexture depth = See table 3 for requirements
 - c) Resistance to permanent deformation (WTSAIR) to PD 6691 table D.2 = Minimum Class 1
 - d) Sensitivity to water (ITSRMIN) > / = 70
 - e) Visual Inspection - At Opening = Good or Excellent
 - 12 months after opening to traffic = Good or Excellent
 - 24 months after opening to traffic = Good or ExcellentCase studies and example sites for verification are required. A minimum 5 year guarantee shall be included.
 8. Warm mix asphalts shall be in accordance with MCHW clause 908 and may be proposed by the designer in place of hot mix options listed on this drawing. Where warm mix asphalts are specified these shall meet the performance requirements of the equivalent hot mix products as stated in clause 908. The designer shall consider the requirements of clause 945 and the impact of winter temperatures and winds on warm mix asphalts, paying particular attention of thin layers, 50 or less.
 9. Block paving design shall be in accordance with BS 7533 with a pavement category 6. The following design details shall be submitted for Wiltshire Council for review / approval: -
 - a) Confirmation of bound or unbound construction type
 - b) Paving unit type dimensions, material and structural loading properties
 - c) Paving patterns
 - including consideration of joint layouts to reduce cutting on site and minimise small paving fillets
 - d) Colour
 - e) Slip / Skid resistance and finish
 - Unpolished Slip Resistance Value (USRV)
 - Polished Paver Value (PPV)
 - Polished Slip Resistance Value (PSRV)
 - f) Joint type, width and material
 - g) Joint sealant / protection
 - h) Movement joints (Expansion, Contraction, isolation), where applicable
 - i) Locations and construction details for pavement edge restraints
 - j) Laying Course / Bedding type, layer thickness and material
 - k) Base Course type, layer thickness and material specification
 - l) Foundation design layer thickness and materials (including CBR testing results)
 - including consideration for construction traffic
 - m) Bond coats between layers
 - n) Geotextiles and earthworks separators



Notes:

1. All levels are in metres unless stated otherwise. Do not scale from this drawing. work from dimensions only.
2. This drawing is based on the approved planning drawing 16423-HYD-XX-XX-DR-TP-0001.
3. Drawing to be read in conjunction with all other drawings. Any discrepancies are to be reported to the engineer 5 working days in advance of undertaking any work.
4. Work to be undertaken in accordance with Wiltshire County Council Specification.
5. Swept path analysis carried out to a minimum speed of 5mph.

Key:

- Full Depth Carriageway Construction
- Proposed Contours
- Proposed Channel Kerb CS2

Panel Van

Overall Length	6.007m
Overall Width	2.231m
Overall Body Height	2.608m
Min Body Ground Clearance	0.360m
Track Width	2.231m
Lock to lock time	5.00s
Kerb to Kerb Turning Radius	7.000m

P02	01.04.26	Revised Pavement Construction	AB	RAS	RAS
P01	09.03.26	First Issue	AB	RAS	RAS
Rev	Date	Details	By	Chkd	Appd

rappor

rappor.co.uk

CLIENT: Lighthouse DC

PROJECT: Five Lanes Solar Farm Malmesbury

TITLE: Proposed Substation Consolidated and Surfaced Turning Head

STATUS: For Approval

DRAWING NO: 251098-RAP-XX-XX-DR-C-0104

SCALE @ A1: As shown

REVISION: P02