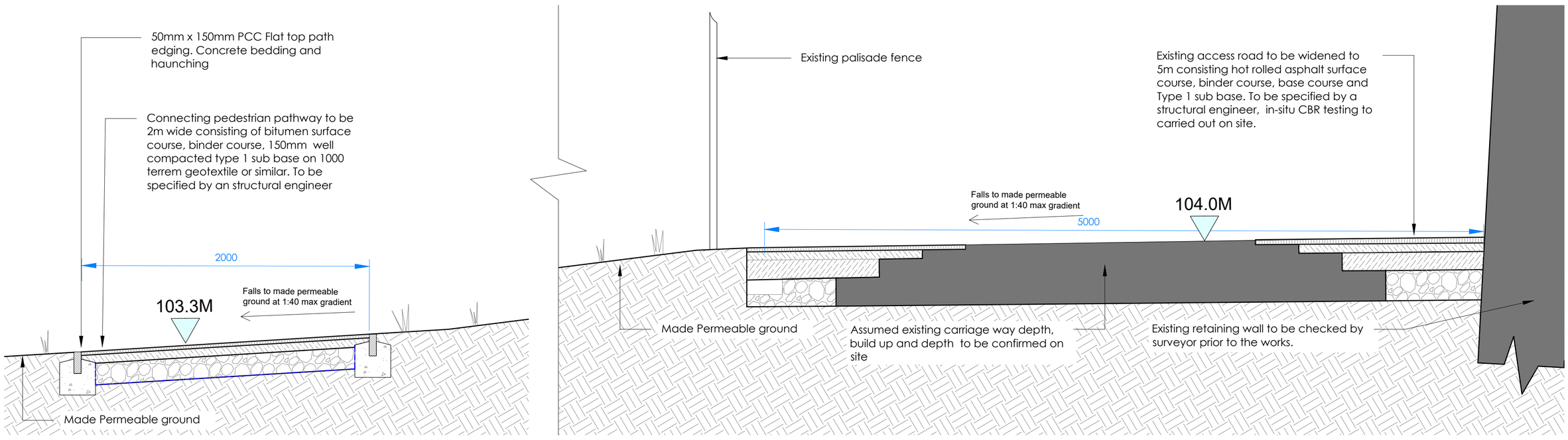
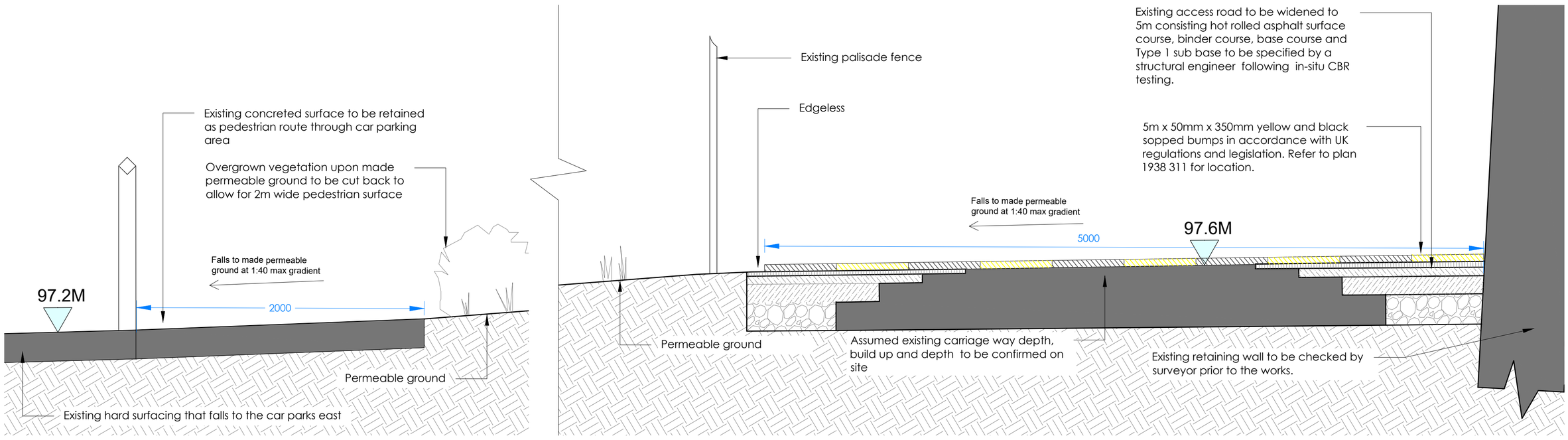


SECTION H1 ; ACCESS ROAD WIDENING & NEW CONNECTING PATHWAY

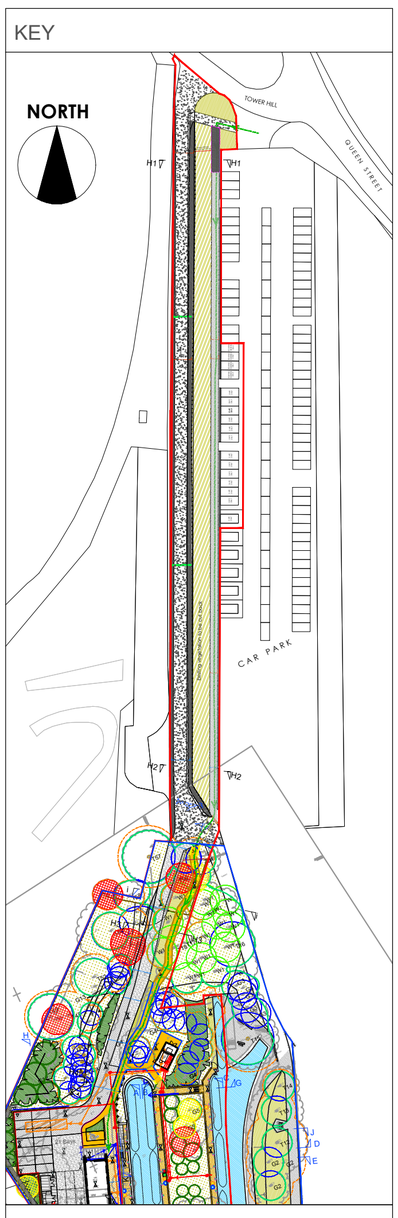
Scale 1:20 @ A1

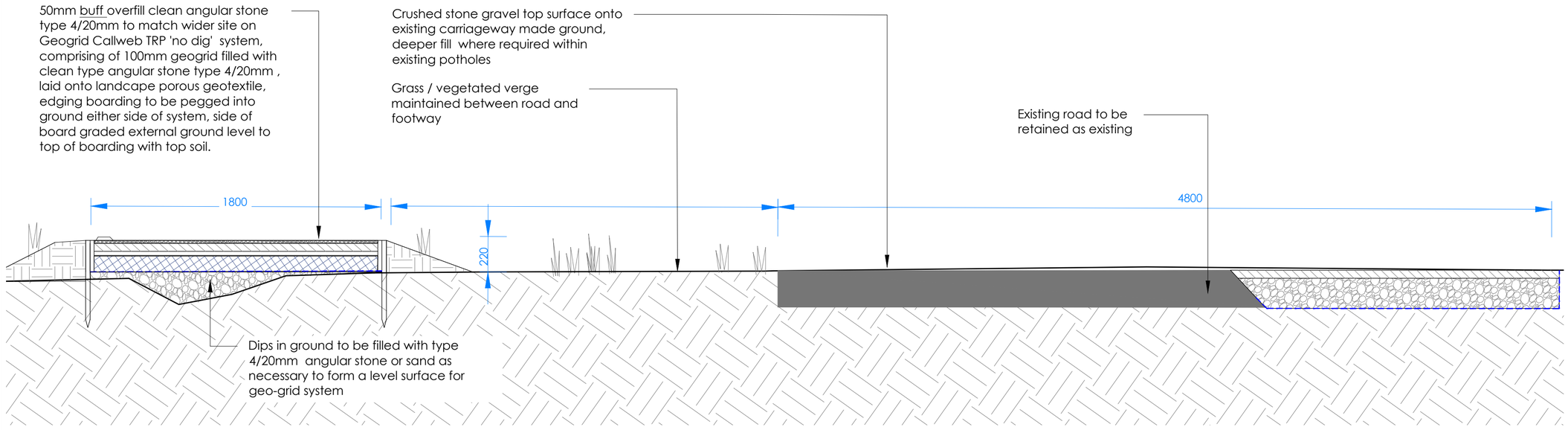


SECTION H2 ; ACCESS ROAD WIDENING & EXISTING CONNECTING ACCESS PATHWAY

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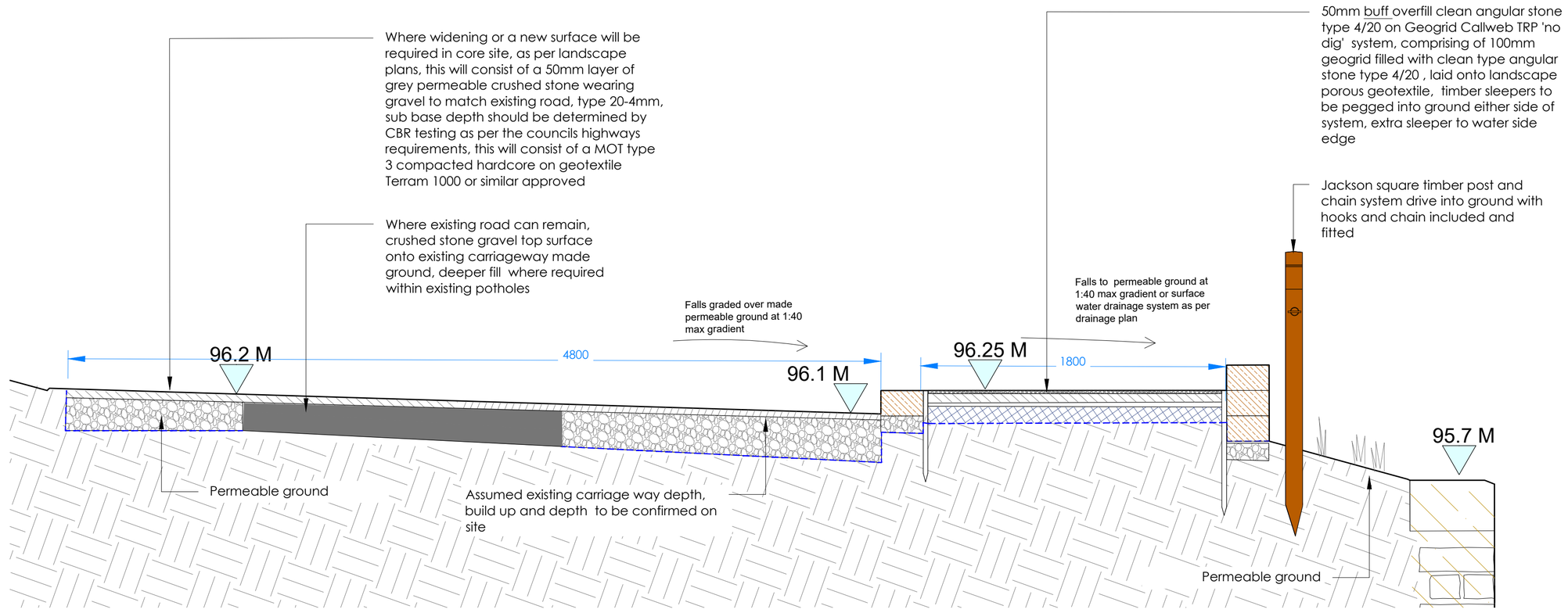
KEY





SECTION H3 ; RAISED PEDESTRIAN FOOTWAY & WIDENED CARRIAGEWAY WITHIN MAIN SITE

Scale 1:20 @ A1



SECTION H4 ; ACCESS ROAD WIDENING & EXISTING CONNECTING PATHWAY

Scale 1:20 @ A1

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Sheet
PROPOSED FOOT & CARRIAGE WAY SECTION DETAILS

Project
Trevor Hire Boat Base

Origin Date/ Auth	Drawing No.
RB	2019 38 314
Scale 1:20 @ A1	Sheet Size A1
Revision / Issue V11	Revision Date 09.08.2022

0m 0.1m 0.3m 0.5m 0.75m 1m

Scale Bar 1/20@ A1

NOTES

1. Structural calculation and specifications for details are to be as specified by structural engineer or as approved by the Building Inspector. Refer to drawing 314 for the councils requirements of sub base depths estimations, in situ CBR testing should be undertaken to confirm requirements if in doubt.

2. Measurements to be checked and confirmed on site, discrepancies to be reported to the principle contractor, structural engineer, project manger or architect where appropriate.

4. For existing ground conditions, please refer to the ground investigations report prepared by Arcadias '10050394-ARC-XX-XX-RP-ZZ-0001-010 , available upon request from the project manger. Construction workers must be given information as set out within Arcadis report and appropriate PPE and safe systems of work to be developed during construction to ensure their protection

5. The details on this drawing have been prepared on the assumption that a Competent Contractor will be carrying out the works. If the Contractor(s) considers that there is insufficient Health and Safety information on this drawing, this should immediately be brought to the attention of the project manager and principle designer.

SOIL	PLASTICITY INDEX (%)	ESTIMATED CBR (%)
Heavy Clay	70	2
	60	2
	50	2
	40	2.5
Silty Clay	30	3
Sandy Clay	20	4
	10	3
Silt	-	1
Sand (poorly graded)	-	20
Sand (well graded)	-	40
Sandy Gravel (well graded)	-	60

Table 1: Equilibrium Subgrade CBR Estimation

Above: Table 1; Estimation of CBR must be as per Wrexham County Brough Council (WCBC) requirements as above.

Table 2 provides a very rough guide to CBR values for cohesive soils.

Soil Condition	CBR
Very soft, exudes between fingers when squeezed	Less than 1%
Can be moulded by light finger pressure	Between 1 and 2%
Can be moulded by strong finger pressure	Between 2 and 3%
Can be indented by a thumbnail but not by a thumb	More than 6%

Table 2: Rough Guide to CBR Estimation

Above: Table 2; Estimation of CBR must be as per WCBC requirements as above.

ESTIMATED CBR (%)	Foundation Option 1 Sub base only	Foundation Option 2 Sub base and capping	
	Sub Base Depth (mm)	Capping Depth (mm)	Sub Base Depth (mm)
2.5	450	250	350
3	410	240	320
4	360	230	270
5	320	210	240
6	300	200	220
7	280	200	210
8	260	190	200
9	250	180	190
10	240	170	180
11	230	170	170
12	220	160	160
13	210	160	160
14	210	150	150
>15	200	150	150

Table 3: Road Foundation Design Thicknesses

Above: Table 3: Minimum foundation construction specification for carriageway widening as per WCBC requirements.

Surface Course	40mm Thin Surface Course System
Binder Course	60mm DBM50 Binder
Base	100mm DBM50
Total Thickness	200mm

Table 4: Asphaltic Material Thicknesses

Above: Table 4: Asphelt material thickness as per WCBC requirements.

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