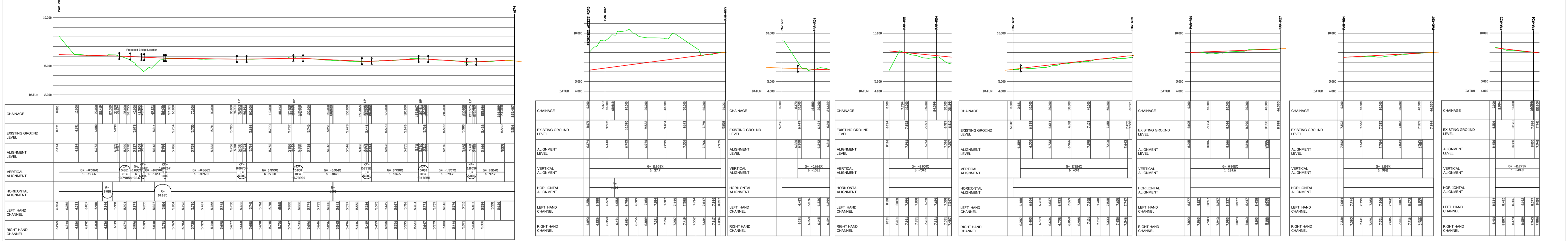


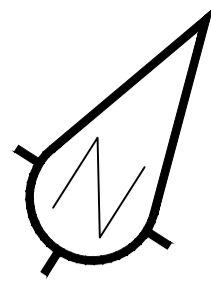
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PROPOSED ACCESS ROAD HORI [] VERT []
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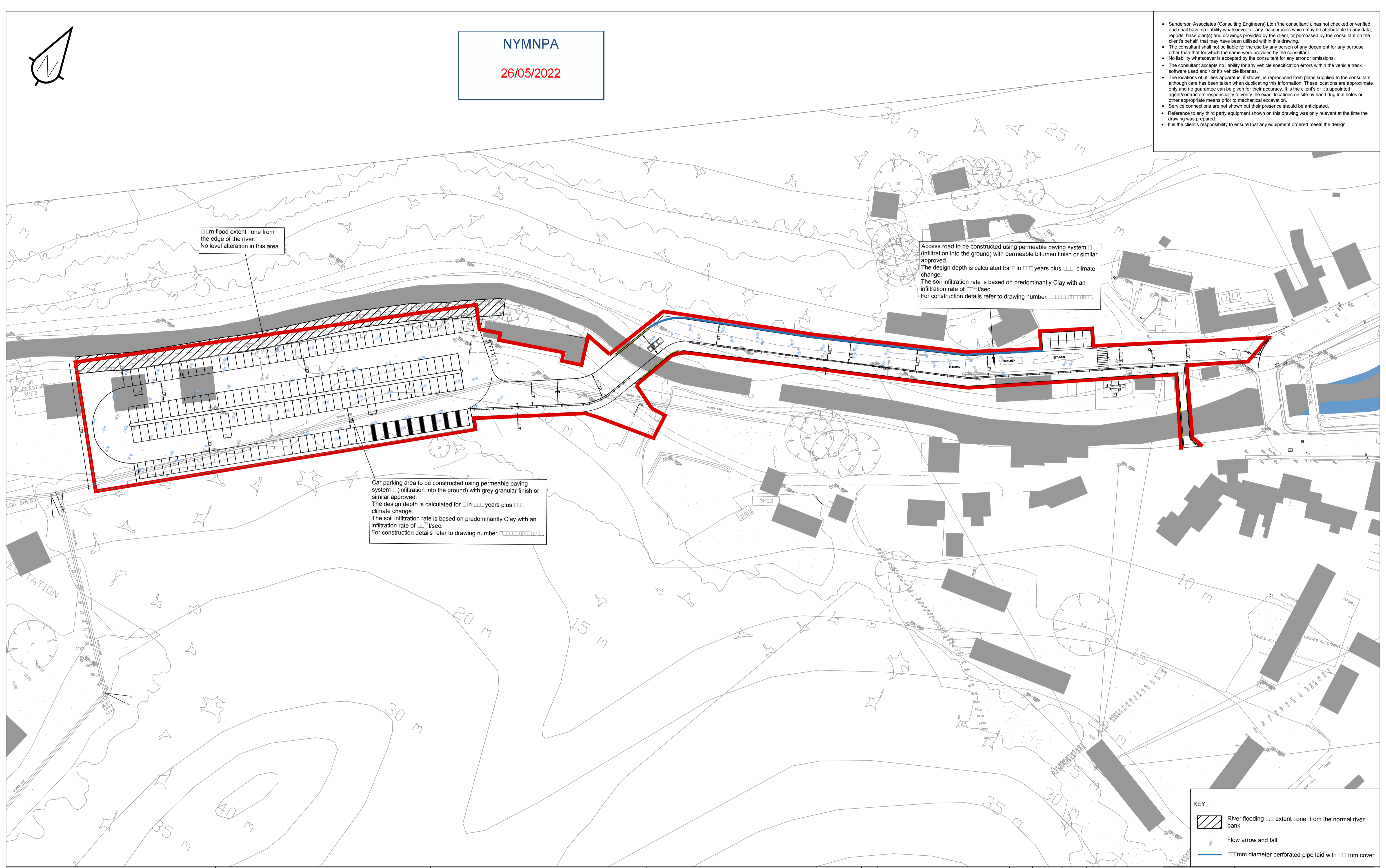
NYMNPA
 26/05/2022

 sanderson associates (consulting engineers) ltd Highways Traffic Transportation Water	Client	Project Title	Drawing Title				Scale	Drawn By
	The Mulgrave Estate	Sandsend	Contours and Long Sections				1:500 @ A1	LOB
							A1	WW
							10/02/2022	WW
							Drawing Number	Rev
							300630-100-002	A
							A	
							Amendment	Checked
							P.M	BL
							Date	Checked



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10m flood extent zone from the edge of the river. No level alteration in this area.

Access road to be constructed using permeable paving system (infiltration into the ground) with permeable bitumen finish or similar approved.
The design depth is calculated for 100 years plus climate change.
The soil infiltration rate is based on predominantly Clay with an infiltration rate of 1 l/sec.
For construction details refer to drawing number 300630-500-001

Car parking area to be constructed using permeable paving system (infiltration into the ground) with grey granular finish or similar approved.
The design depth is calculated for 100 years plus climate change.
The soil infiltration rate is based on predominantly Clay with an infiltration rate of 1 l/sec.
For construction details refer to drawing number 300630-500-001

KEY

River flooding extent zone, from the normal river bank

Flow arrow and fall

100mm diameter perforated pipe laid with 100mm cover

Client
The Mulgrave Estate

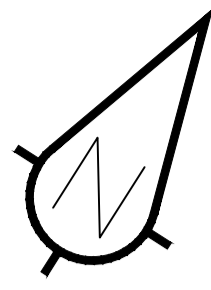
Project Title
Sandsend

Drawing Title
Surface Water Drainage

Scale	1:500 @ A1	Drawn By	LOB
Drawing Size	A1	Checked By	WW
Date	10/02/2022	Approved By	PJM
Rev	Amendment	Drawn	Date

Scale	1:500 @ A1	Drawn By	LOB
Drawing Size	A1	Checked By	WW
Date	10/02/2022	Approved By	PJM
Rev	Amendment	Drawn	Date
Drawing Number		300630-500-001	
Rev		A	

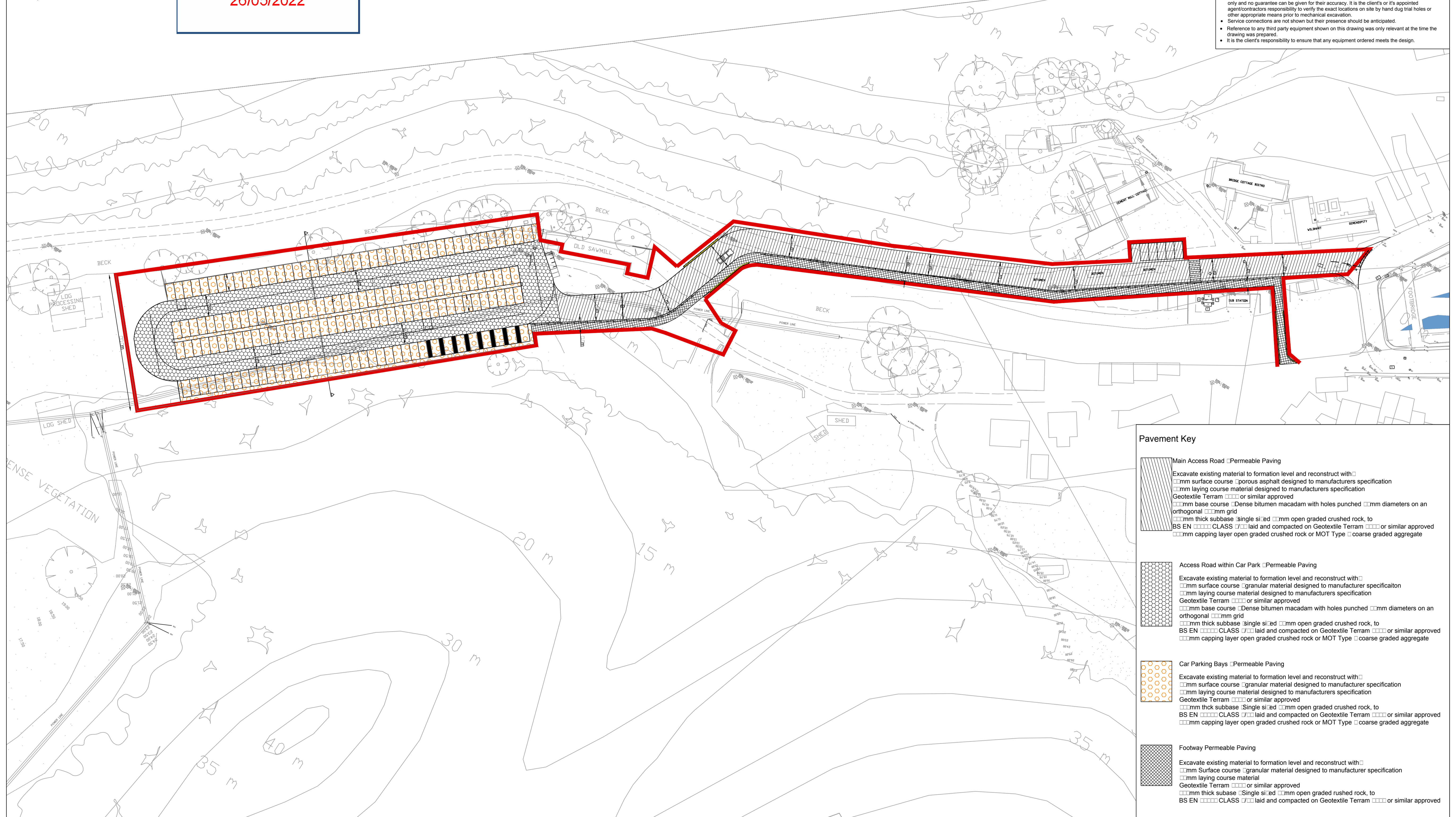
A PARKING FOR FISH COTTAGE AND GIFT SHOP INTRODUCED FILTER DRAIN ADDED P:JM



NYMNP

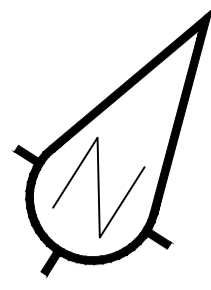
26/05/2022

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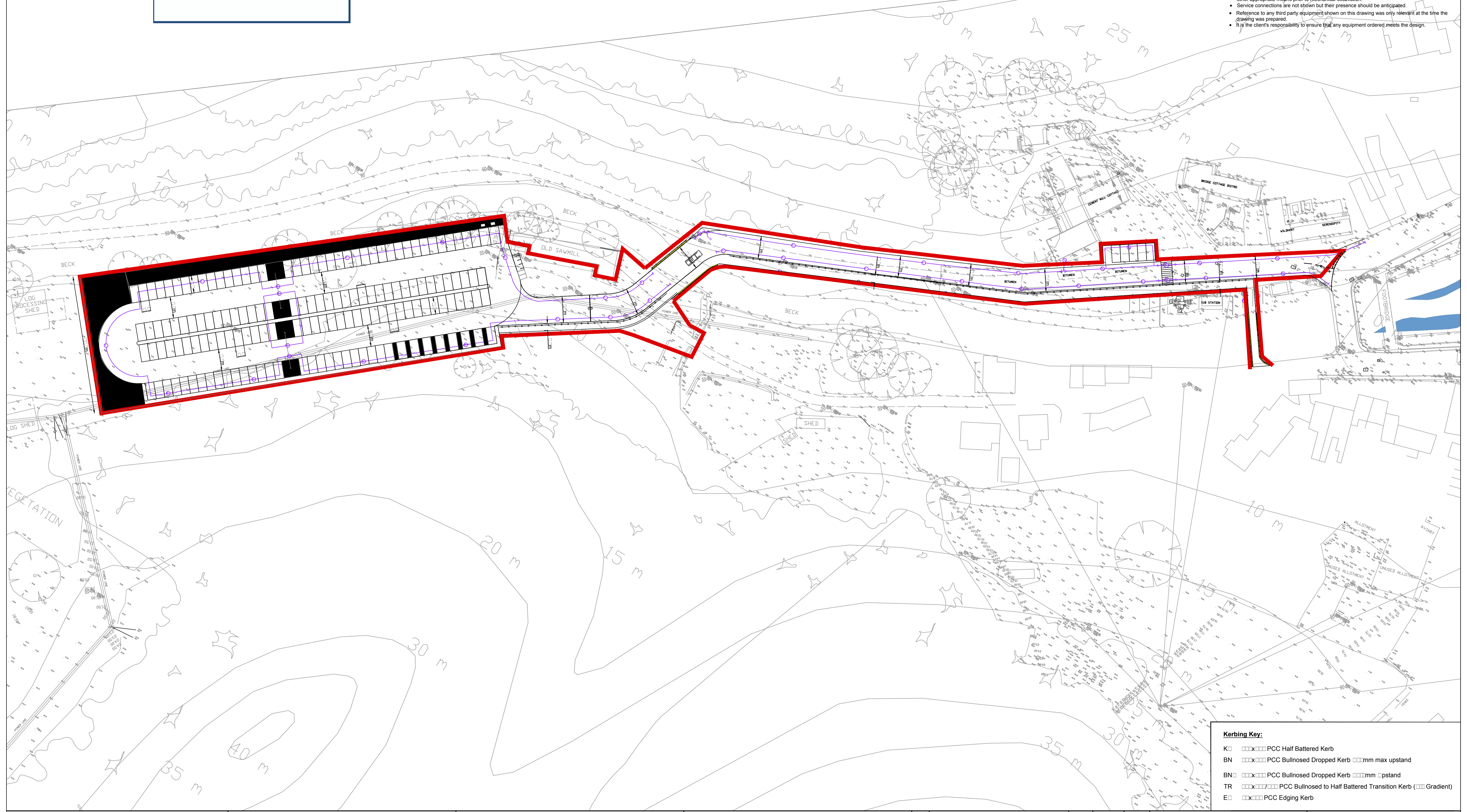
Pavement Key	
	Main Access Road Permeable Paving Excavate existing material to formation level and reconstruct with 100mm surface course porous asphalt designed to manufacturer specification 100mm laying course material designed to manufacturer specification Geotextile Terram or similar approved 100mm base course Dense bitumen macadam with holes punched 100mm diameters on an orthogonal 100mm grid 100mm thick subbase single sided 100mm open graded crushed rock, to BS EN 12620 CLASS 1 laid and compacted on Geotextile Terram or similar approved 100mm capping layer open graded crushed rock or MOT Type coarse graded aggregate
	Access Road within Car Park Permeable Paving Excavate existing material to formation level and reconstruct with 100mm surface course granular material designed to manufacturer specification 100mm laying course material designed to manufacturer specification Geotextile Terram or similar approved 100mm base course Dense bitumen macadam with holes punched 100mm diameters on an orthogonal 100mm grid 100mm thick subbase single sided 100mm open graded crushed rock, to BS EN 12620 CLASS 1 laid and compacted on Geotextile Terram or similar approved 100mm capping layer open graded crushed rock or MOT Type coarse graded aggregate
	Car Parking Bays Permeable Paving Excavate existing material to formation level and reconstruct with 100mm surface course granular material designed to manufacturer specification 100mm laying course material designed to manufacturer specification Geotextile Terram or similar approved 100mm thick subbase single sided 100mm open graded crushed rock, to BS EN 12620 CLASS 1 laid and compacted on Geotextile Terram or similar approved 100mm capping layer open graded crushed rock or MOT Type coarse graded aggregate
	Footway Permeable Paving Excavate existing material to formation level and reconstruct with 100mm surface course granular material designed to manufacturer specification 100mm laying course material Geotextile Terram or similar approved 100mm thick subbase single sided 100mm open graded crushed rock, to BS EN 12620 CLASS 1 laid and compacted on Geotextile Terram or similar approved

 sanderson associates (consulting engineers) ltd Highways Traffic Transportation Water	Client	Project Title	Drawing Title	Scale	Drawn By			
	The Mulgrave Estate	Sandsend	Pavements	1:500 @ A1	LOB			
				Drawing Size	Checked By			
				A1	WW			
				Date	Approved By			
				10/02/22	PJM			
					Drawing Number	Rev		
					300630-700-001	A		
				Rev	Amendment	Drawn	Date	Checked
				A	PARKING FOR FISH COTTAGE AND GIFT SHOP INTRODUCED FOOTWAY WIDENED TO ENSURE 2.0m WIDTH MAINTAINED FOR PEDESTRIANS	PJM		BL



NYMNPA
26/05/2022

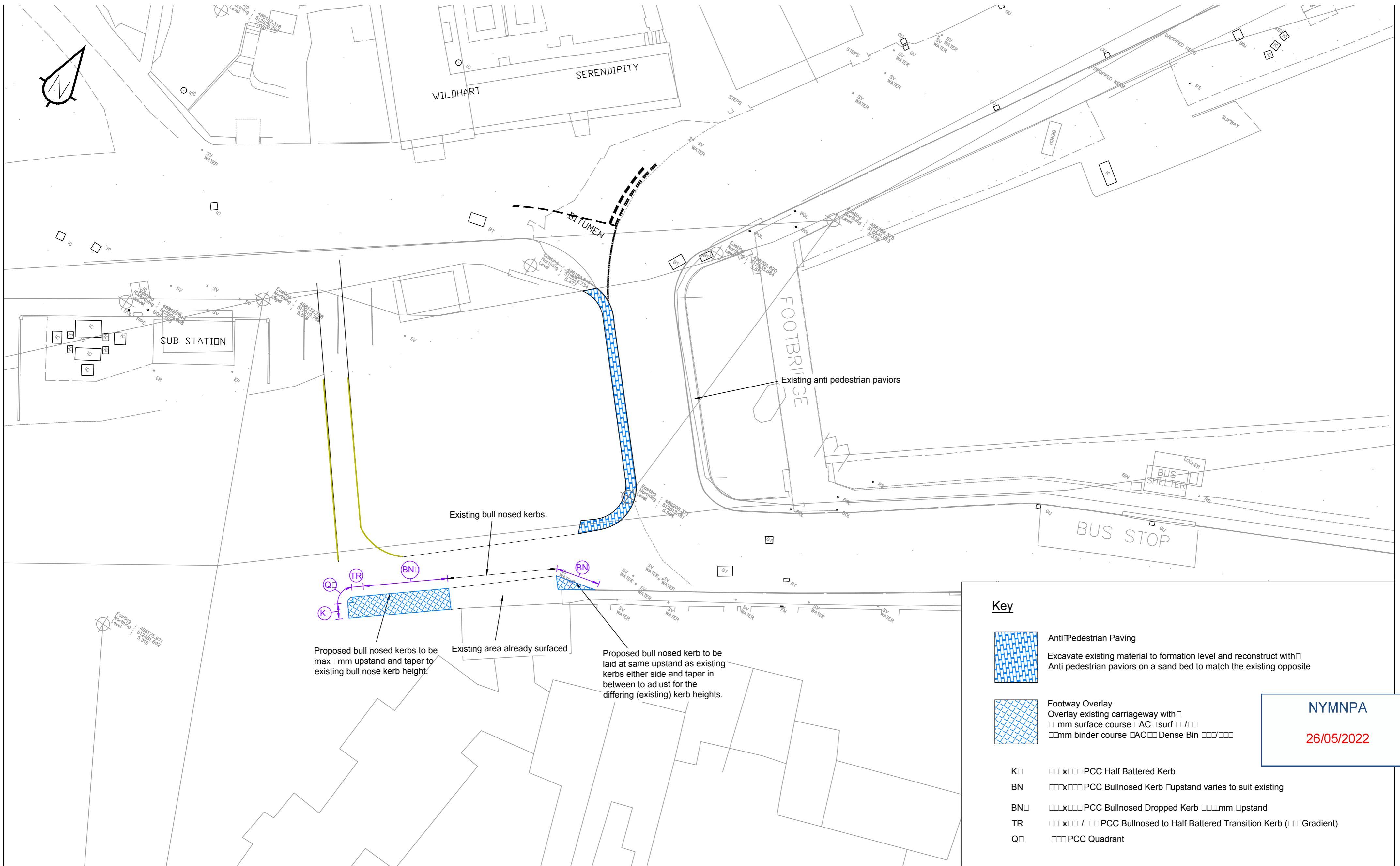
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Kerbing Key:

K		PCC Half Battered Kerb
BN		PCC Bullnosed Dropped Kerb <input type="checkbox"/> mm max upstand
BN		PCC Bullnosed Dropped Kerb <input type="checkbox"/> mm <input type="checkbox"/> pstand
TR		PCC Bullnosed to Half Battered Transition Kerb (<input type="checkbox"/> Gradient)
E		PCC Edging Kerb

<p>sanderson[®] associates (consulting engineers) ltd Highways Traffic Transportation Water</p>	Client	Project Title	Drawing Title	Scale	1:500 @ A1	Drawn By	LOB										
	The Mulgrave Estate	Sandsend	Kerbing	Drawing Size	A1	Checked By	WW										
				Date	10/02/2022	Approved By	WW										
				Drawing Number	300630-1100-001	Rev	A										
				<table border="1"> <tr> <td>A</td> <td>PARKING FOR FISH COTTAGE AND GIFT SHOP INTRODUCED</td> <td>PJM</td> <td><input type="checkbox"/></td> <td>BL</td> </tr> <tr> <td>Rev</td> <td>Amendment</td> <td>Drawn</td> <td>Date</td> <td>Checked</td> </tr> </table>	A	PARKING FOR FISH COTTAGE AND GIFT SHOP INTRODUCED	PJM	<input type="checkbox"/>	BL	Rev	Amendment	Drawn	Date	Checked			
A	PARKING FOR FISH COTTAGE AND GIFT SHOP INTRODUCED	PJM	<input type="checkbox"/>	BL													
Rev	Amendment	Drawn	Date	Checked													



Proposed bull nosed kerbs to be max 100mm upstand and taper to existing bull nose kerb height.

Existing area already surfaced

Proposed bull nosed kerb to be laid at same upstand as existing kerbs either side and taper in between to adjust for the differing (existing) kerb heights.

Key

Anti-Pedestrian Paving
Excavate existing material to formation level and reconstruct with 100mm AC dense bitumen on a sand bed to match the existing opposite

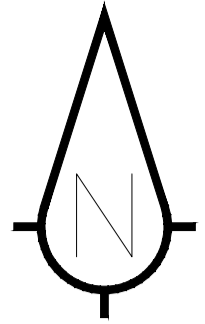
Footway Overlay
Overlay existing carriageway with 100mm surface course 100mm AC surf 100mm binder course 100mm AC Dense Bit 100mm

- K 1000x1000 PCC Half Battered Kerb
- BN 1000x1000 PCC Bullnosed Kerb 100mm upstand varies to suit existing
- BN 1000x1000 PCC Bullnosed Dropped Kerb 100mm upstand
- TR 1000x1000 PCC Bullnosed to Half Battered Transition Kerb (100mm Gradient)
- Q 1000 PCC Quadrant

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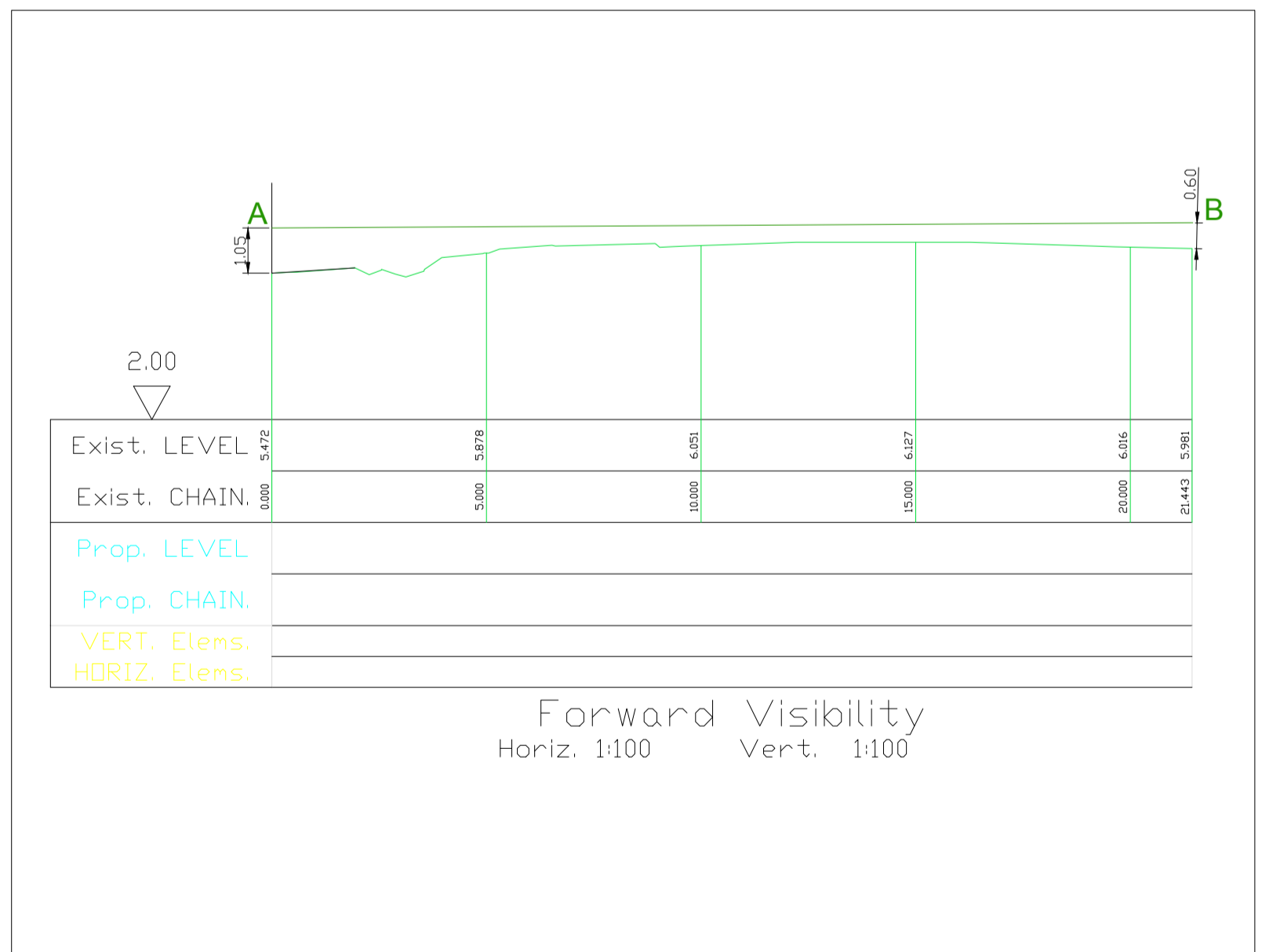
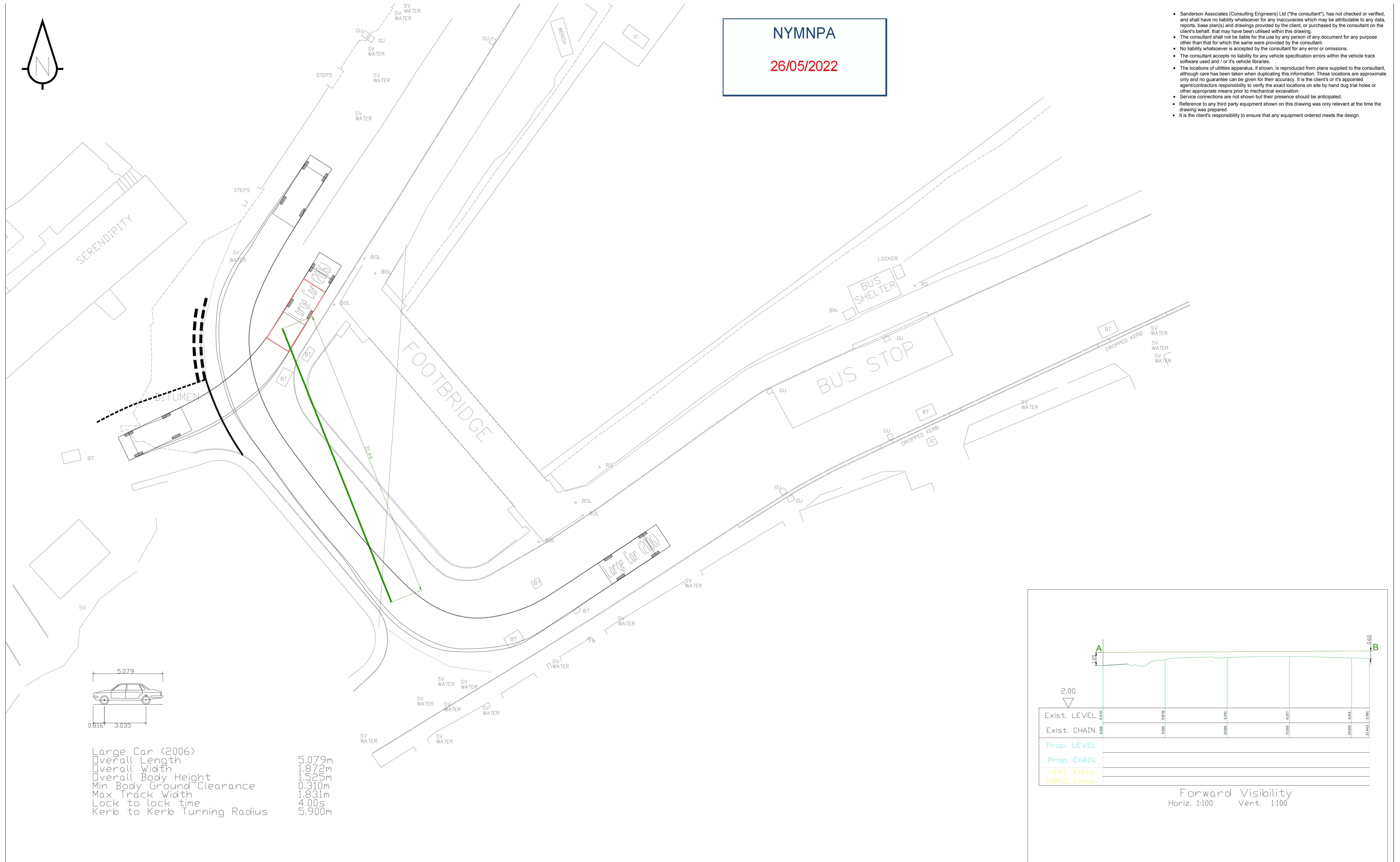


	Client	Project Title	Drawing Title					Scale	Drawn By	LOB	
	The Mulgrave Estate	Sandsend	Kerbing and Footway Works Outside Thordisa Cottage					Drawing Size	A2	Checked By	PJM
								Date	20/05/2022	Approved By	PJM
								Drawing Number	30630-1100-002		Rev
				Rev	Amendment	Drawn	Date	Checked			



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	The Mulgrave Estate	Sandsend	Vehicle Tracking and Visibility Splay	Drawing Size	A1	Checked By	PJM
				Date	03/03/22	Approved By	PJM
				Drawing Number	300630-SO-002	Rev	-
FILE REF:				Rev	Amendment	Drawn	Date