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Arun District Council, Civic Centre, Maltravers Rd, Littlehampton, West Sussex, BN17 5LF
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From: Laura Gibbons <Laura.Gibbons@arun.gov.uk>
Sent: 31 August 2021 10:56
To: Planning.Responses <Planning.Responses@arun.gov.uk>
Cc: Michael Eastham <Michael.Eastham@arun.gov.uk>
Subject: WA/63/21/PL- Land East of Tye Lane Walberton BN18 0LU

Engineers Comments Regarding Surface Water Drainage/ Land Drainage

We object to the proposals for the proposed alternative vehicular access off Tye Lane.

Details of proposals for culverting and diverting the watercourse have now been provided, and are attached. We object to the proposals as they currently stand for the following reasons:

1. The new culvert has proposed upstream and downstream invert levels of 13.05 and 12.95 respectively. It is clear that there will be a clash between the proposed culvert and the foul pipe. The foul pipe has an I.L. of 12.8, with a diameter of 150mm, an external diameter of 188mm is typical, therefore this pipe will have a crown level of 12.988. It can be seen this is likely above the invert level of the watercourse culvert at this location, let alone the barrel level of the culvert and base level of the concrete surround. There is clearly a clash.
2. Proposals to provide the longer culvert rely upon deepening the watercourse, it is not clear if this will be possible with the constraints that exist.
3. In order to form a footpath along the east of Tye Lane it is proposed to divert the ditch. The supplied cross sections show:
 - a. The proposed cross sections are narrower than the existing cross sections and will therefore result in a loss of capacity.
 - b. The proposed cross sections are proposed to have steep 1:1 banks. These banks are steeper than existing banks, it is unlikely that the proposals will provide a long term stable watercourse. Proposals will likely result in erosion and collapse or a need to engineer banks which could result in a loss of natural habitat.

- c. There is a line of TPO trees along the eastern bank of the watercourse, it is unclear how the new watercourse profile can be provided without damaging these trees.

In summary it has not been evidenced that the new access can be delivered whilst maintaining the free flow of water and capacity within the watercourse.

Kind regards,

Laura Gibbons

Drainage Engineer

Engineering Services

Please note that I work Tuesdays 08:00-16:00 for Arun only.

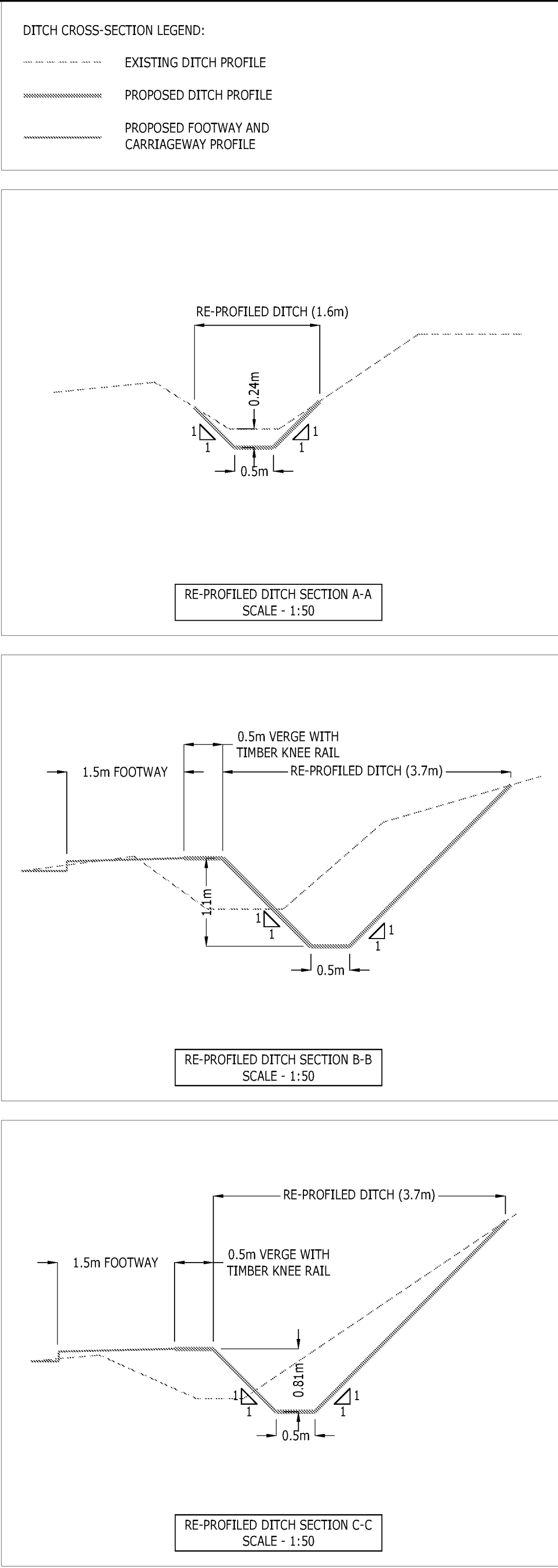
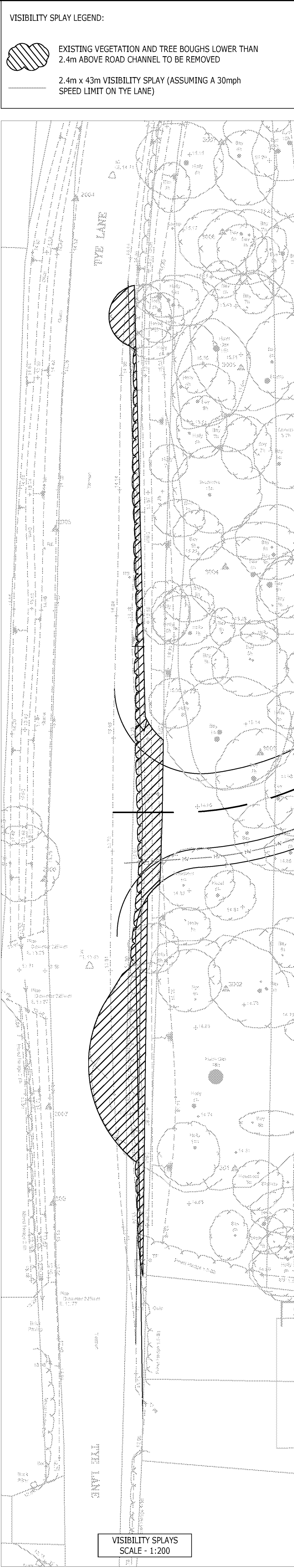
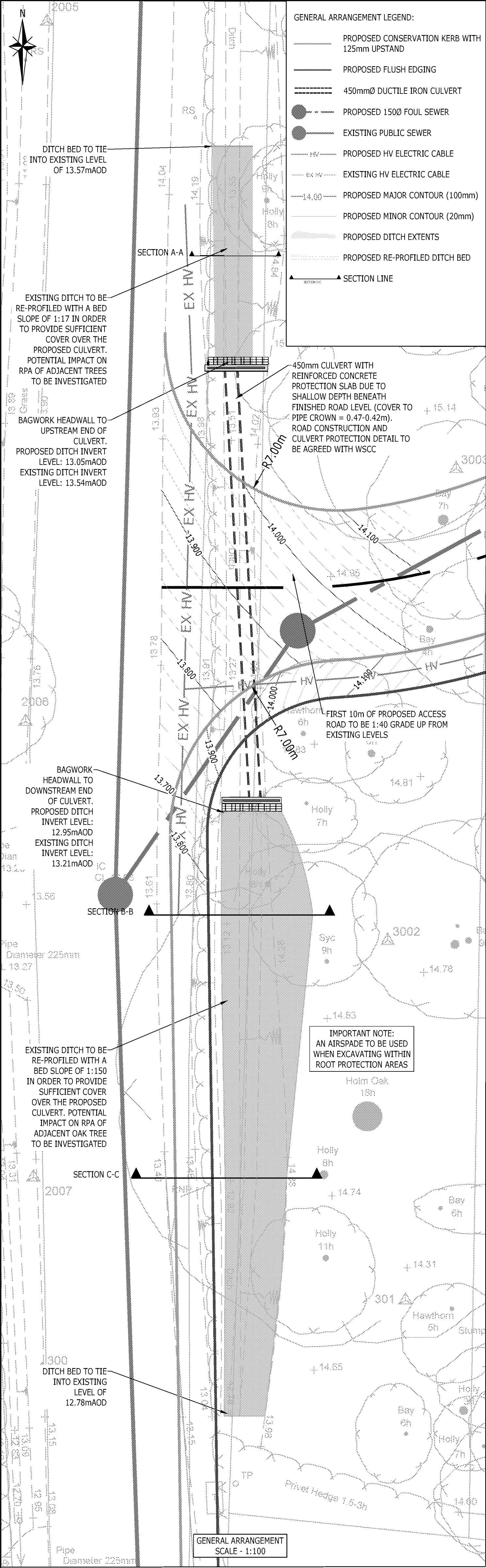


T: 01903 221374

E: laura.gibbons@arun.gov.uk



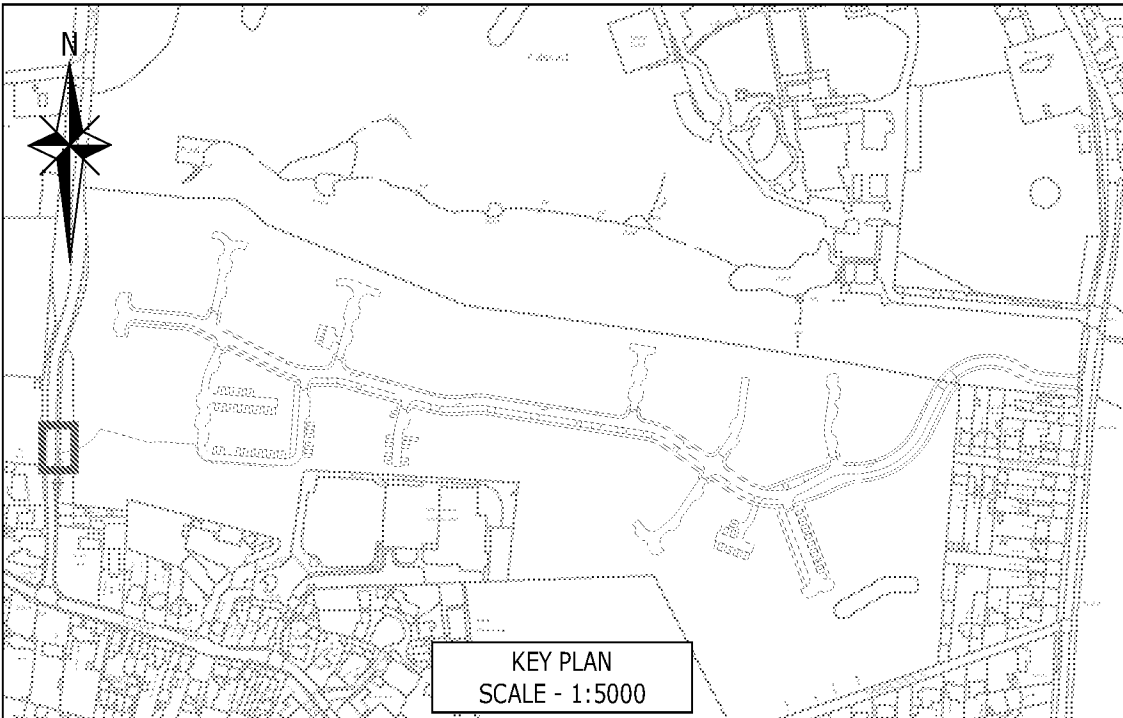
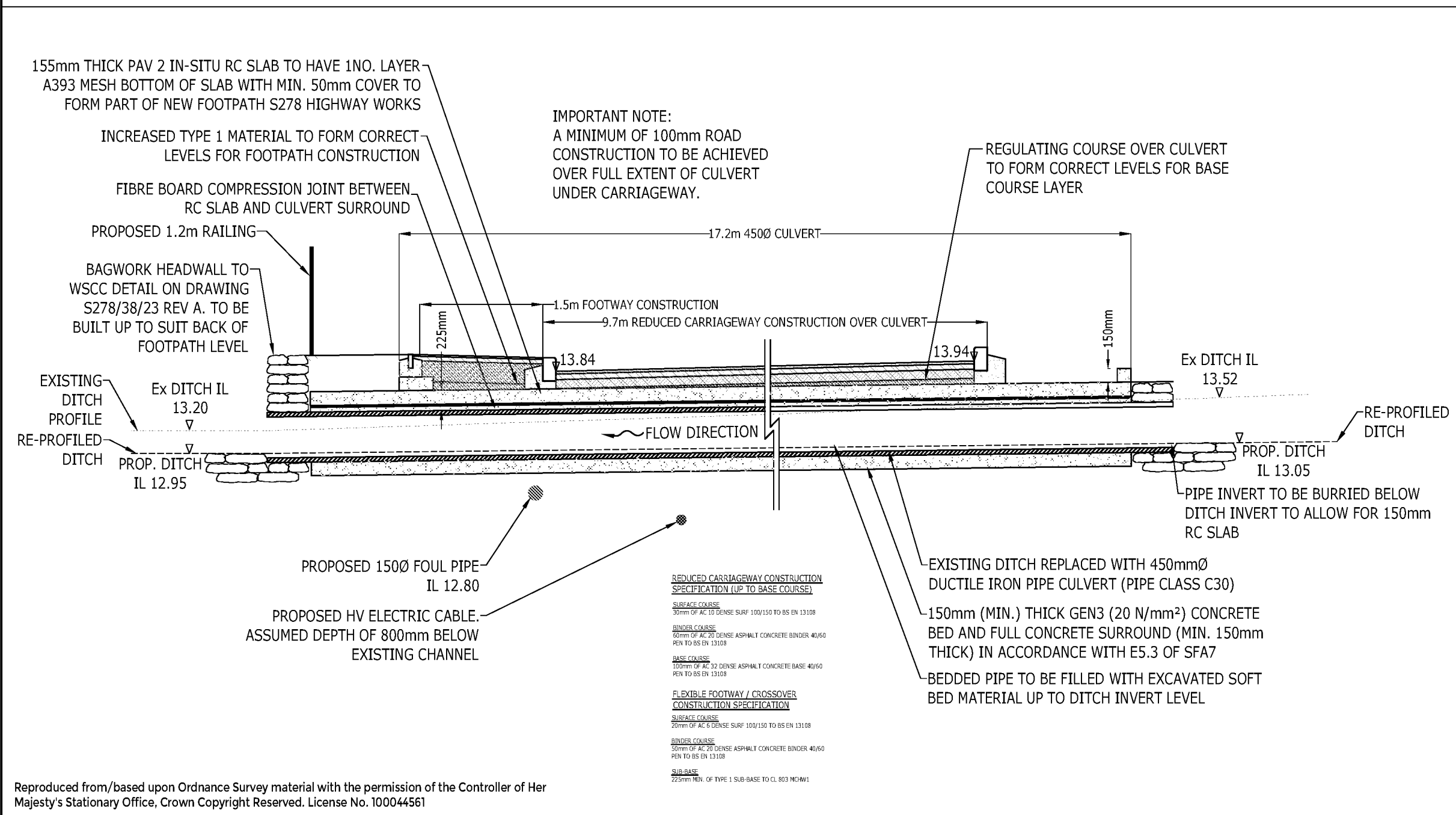
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- NOTES
- THIS DRAWING IS TO BE READ IN CONJUNCTION WITH THE RELEVANT SPECIFICATION AND ALL OTHER RELATED DRAWINGS ISSUED BY THE ENGINEER.
 - DO NOT SCALE FROM THIS DRAWING. WORK FROM FIGURED DIMENSIONS ONLY.
 - ALL DIMENSIONS SHOWN ON THIS DRAWING ARE IN METRES, UNLESS OTHERWISE STATED.
 - ALL DIMENSIONS, LEVELS AND SURVEY GRID CO-ORDINATES ARE TO BE CHECKED ON SITE AND THE ENGINEER NOTIFIED IMMEDIATELY OF ANY DISCREPANCIES PRIOR TO THE COMMENCEMENT OF THE WORKS.
 - NO DEVIATION FROM THE DETAILS SHOWN ON THIS DRAWING IS PERMITTED WITHOUT PRIOR PERMISSION FROM THE ENGINEER.
 - ALL HIGHWAYS WORKS TO BE IN ACCORDANCE WITH WEST SUSSEX COUNTY COUNCIL DEVELOPERS CONSTRUCTION MANUAL DATED APRIL 2017.
- CDM NOTES:
- THE ATTENTION OF THE CLIENT, PRINCIPAL DESIGNER, PRINCIPAL CONTRACTOR, DESIGNERS AND CONTRACTORS IS DRAWN TO THE FOLLOWING POTENTIAL RISKS IN CONJUNCTION WITH THE PROPOSED ON-SITE AND OFF-SITE WORKS AS DESIGNED FOR THIS PROJECT:
- WORKS IN THE VICINITY OF LIVE SERVICES INCLUDING GAS, ELECTRICITY AND BT WILL BE NECESSARY AND THE ADVICE OF ALL STATUTORY SERVICE COMPANIES MUST BE SOUGHT BEFORE ANY WORKS COMMENCE.
 - WORKS WITHIN AND ABUTTING THE EXISTING HIGHWAY WILL ENTAIL TRAFFIC HAZARDS AND ALL APPROPRIATE SAFETY MEASURES INCLUDING BARRIERS, SIGNS AND LIGHTING MUST BE UNDERTAKEN TO THE APPROVAL OF THE LOCAL AUTHORITY, THE HIGHWAY AUTHORITY AND THE POLICE DEPARTMENT.
 - HAZARDOUS MATERIALS INCLUDING CEMENT AND BITUMINOUS MATERIALS ARE SPECIFIED AND THE MANUFACTURERS ADVICE ON SAFE HANDLING PROCEDURES MUST BE OBTAINED AND MADE CLEAR TO ALL OPERATIVES.
 - THE CONTRACTOR WILL BE RESPONSIBLE FOR LOCATING ALL EXISTING SERVICES WITHIN THE VICINITY OF THE WORKS HAND DUG AND ENSURE THESE ARE PROTECTED THROUGHOUT THE DURATION OF THE WORKS. ALL UTILITY PLANT SHOULD BE CLEARLY MARKED ON THE GROUND PRIOR TO COMMENCEMENT OF THE WORKS.
 - THE CONTRACTOR MUST ENSURE ALL WORKING AREAS ARE FULLY SECURE.

ALL CULVERT WORKS SUBJECT TO ORDINARY WATERCOURSE CONSENT AND SECTION 278 APPROVAL

FOR INFORMATION ONLY



P3	DITCH CROSS-SECTIONS ADDED	SRB	SRB	JEC	20.08.21
P2	ACCESS AMENDED & LONGSECTION ADDED	MJR	JEC	GH	11.06.21
Rev	Description	Drn	Chk	App	Date
ARDENT CONSULTING ENGINEERS					
Third Floor The Hallmark Building 52-56 Leadenhall Street London EC3M 5JE					
Tel: 020 7680 4088 Web: www.ardent-ce.co.uk E-mail: enquiries@ardent-ce.co.uk					
worksafe consultant www.smaiftd.com SSIP SUSSEX SUSSEX SUSSEX					
Client					
VISTRY SOUTH EAST					
Project Title					
LAND EAST OF TYE LANE, WALBERTON					
Drawing Title					
TYE LANE PRELIMINARY SITE ACCESS					
A1 Scale	Date	Designed by			
AS SHOWN	05.11.2020	JEC			
Drawn by	Checked by	Approved by			
JEC	JEC	KM			
Drawing Number	183248-001				Rev
					P3