



# MetroWest+

## Portishead Branch Line (MetroWest Phase 1)

TR040011

Applicant: North Somerset District Council

### 2.21 Cattle Creep Proposed General Arrangement (Sheets 1 and 2)

The Infrastructure Planning (Applications: Prescribed Forms and Procedure) Regulations 2009, regulation 5(2)(o)  
Planning Act 2008

Author: Arup

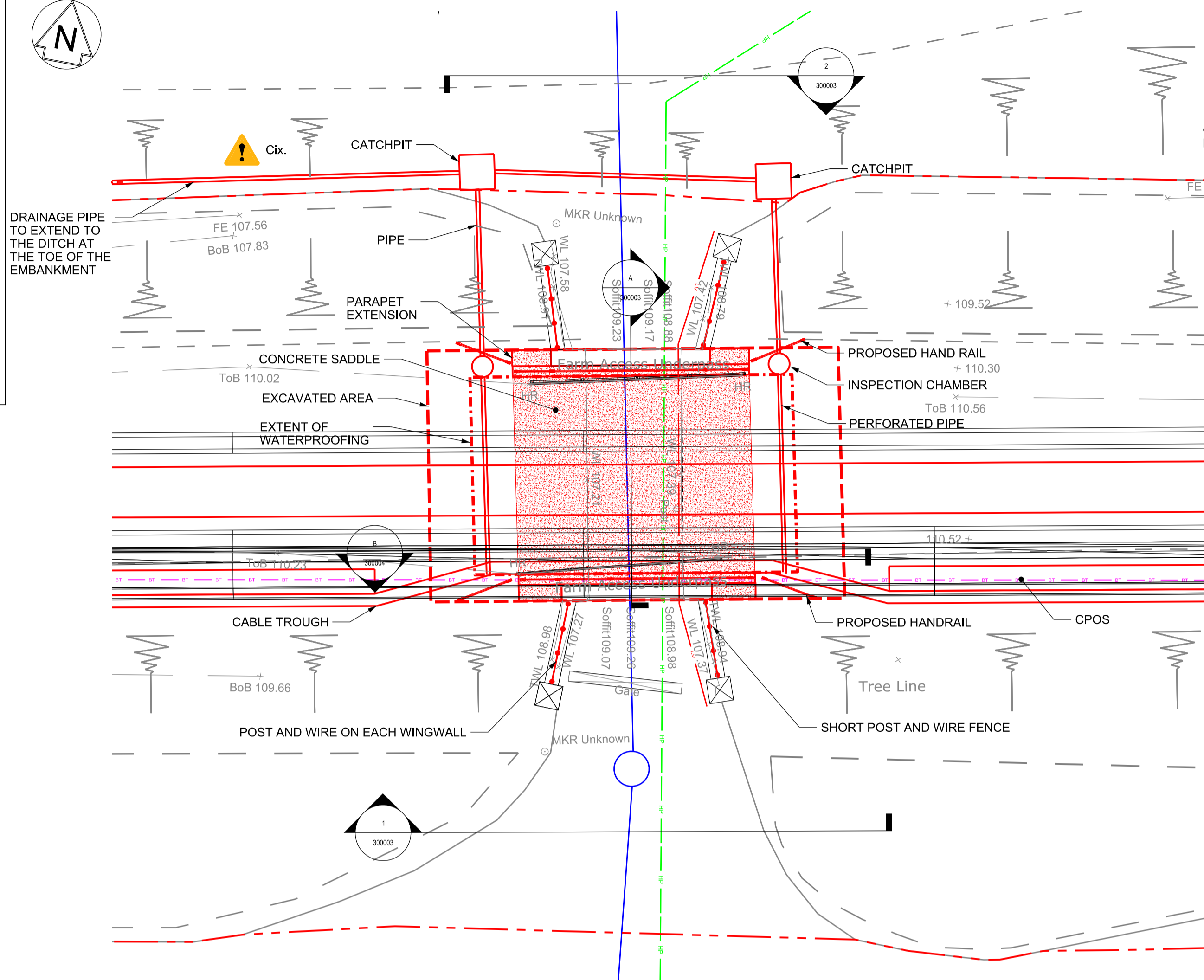
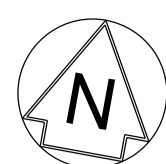
Date: November 2019



## Document Index

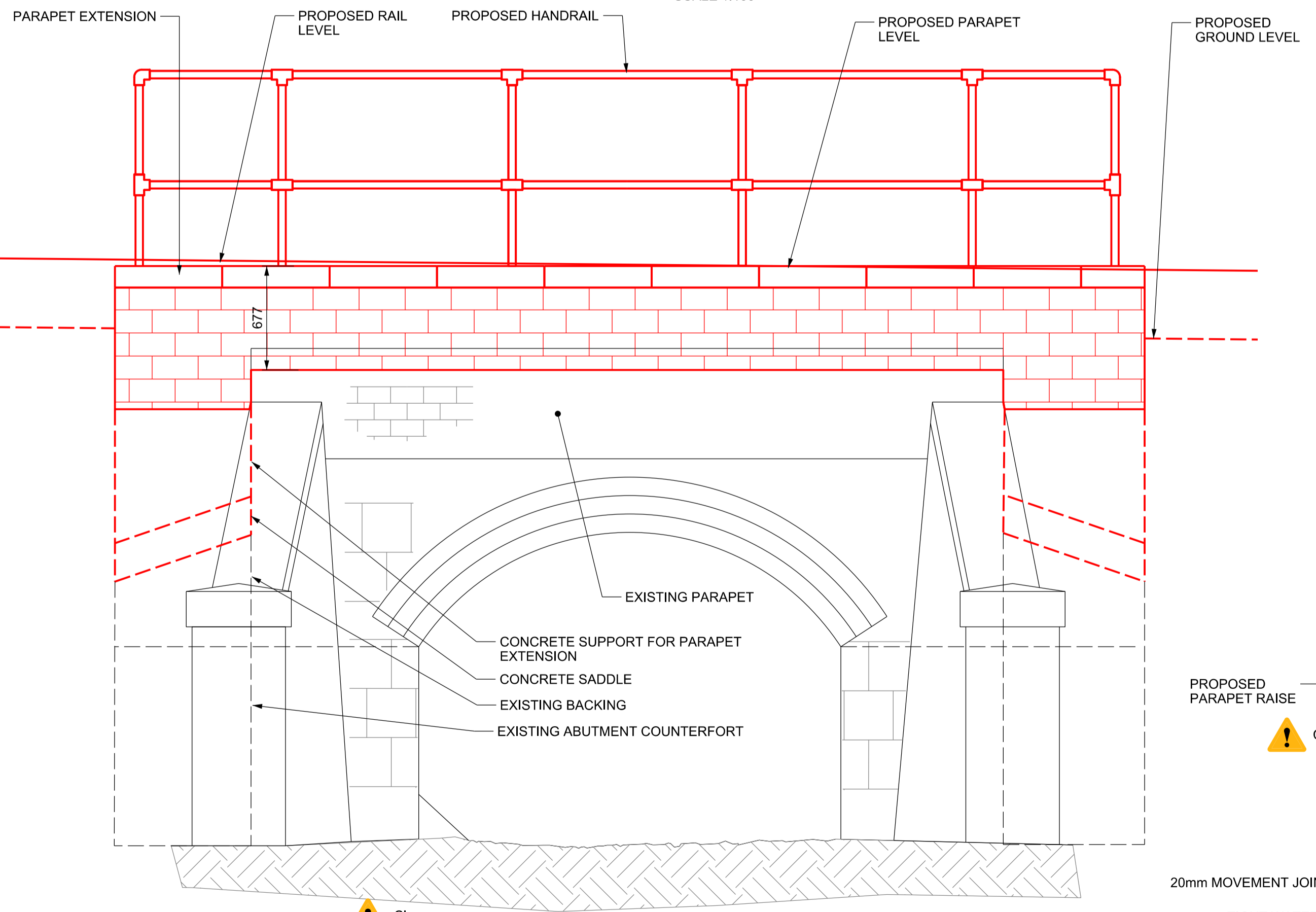
2.21	Cattle Creep: Proposed General Arrangement (Sheet 1 & 2)	The Infrastructure Planning (Applications: Prescribed Forms and Procedure) Regulations 2009, regulation 5(2)(o)	W1097B-ARP-DRG-ECV-300003-4 Rev A01
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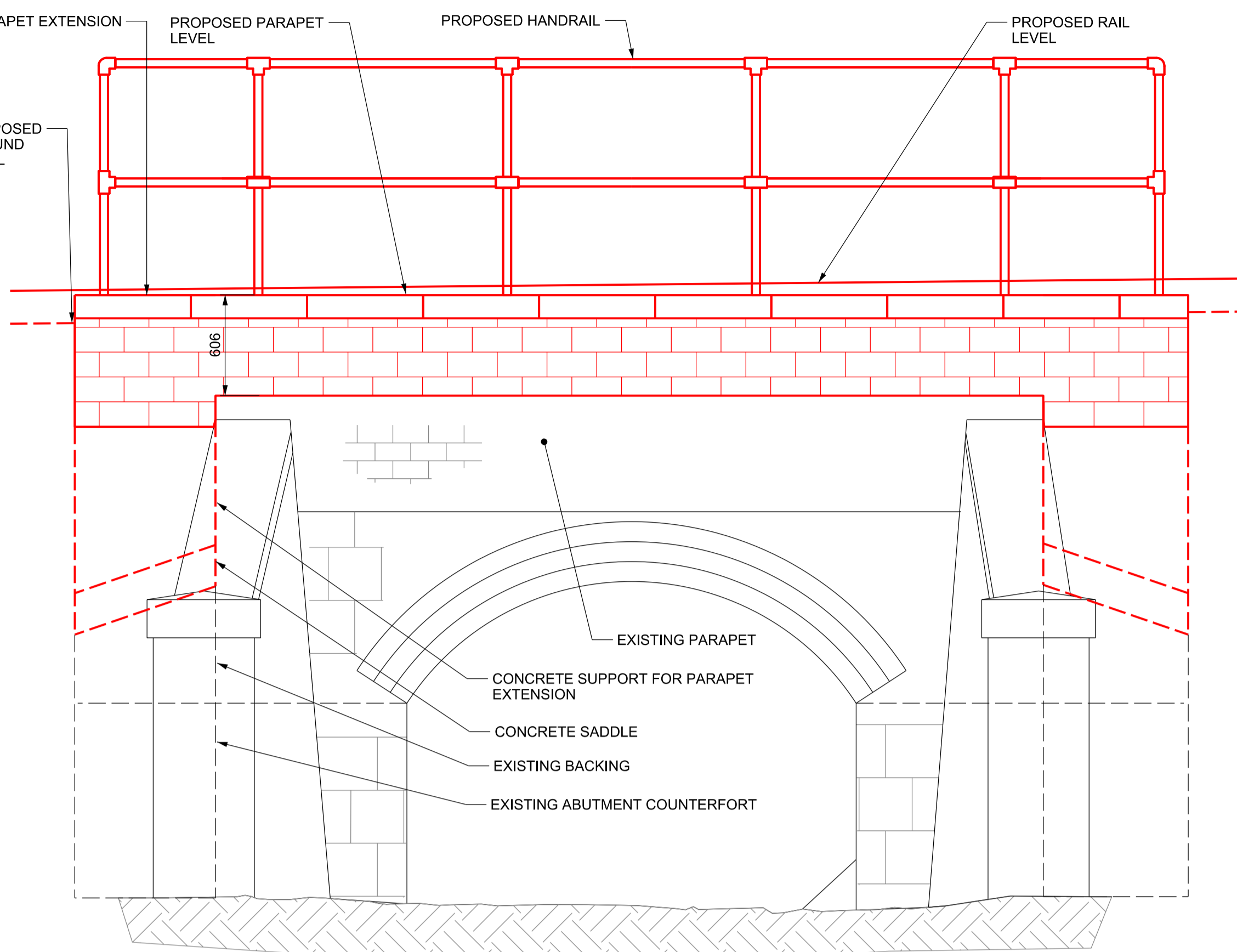
PLAN

SCALE 1:100



2 ELEVATION - NORTH

SCALE 1:25



1 ELEVATION - SOUTH

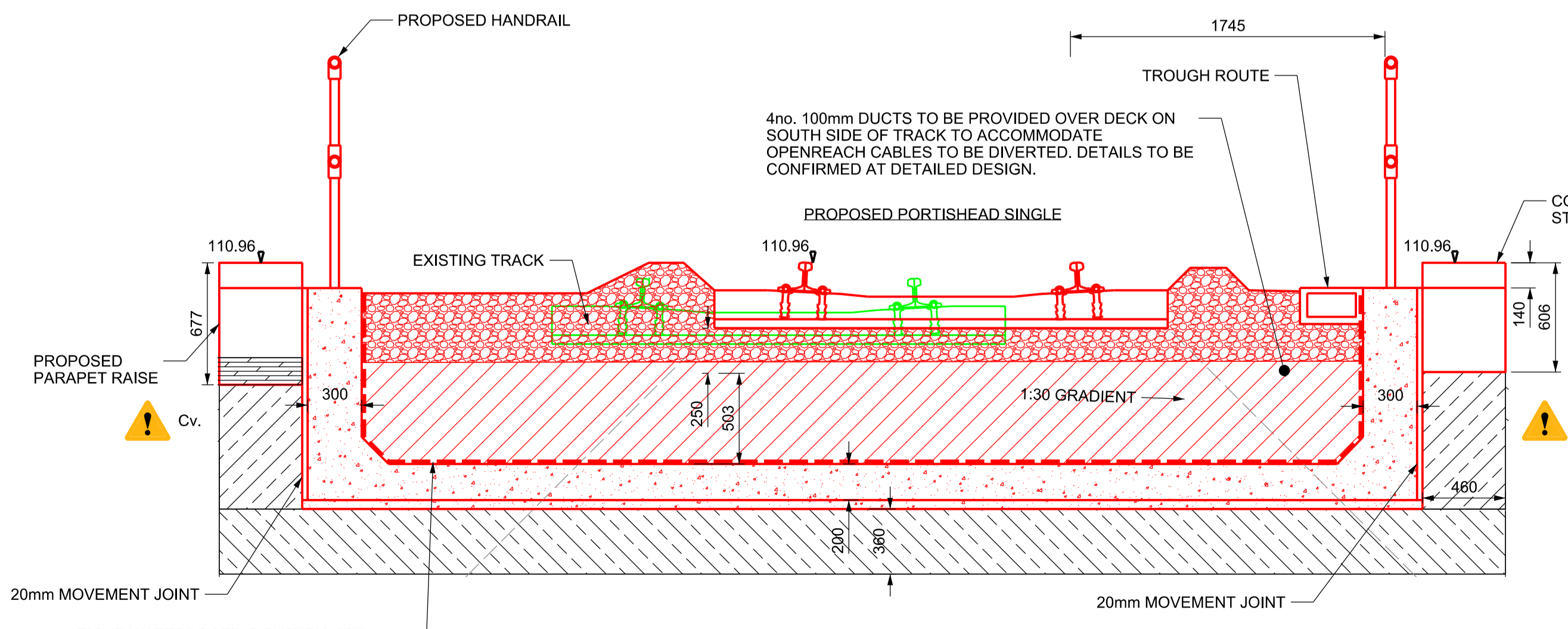
SCALE 1:25

**Safety, Health and Environmental Information**  
Notes below are additional to hazards/risks normally associated with this type of work:

**Construction**  
Ci. UTILITIES ARE PRESENT ACROSS THE SITE  
Cii. LOOSE / UNSTABLE MASONRY  
Civ. WORKING AT HEIGHT  
Cv. PARAPETS AND SPANDREL WALLS  
INSTABILITY  
Cvi. CEMENTITIOUS MATERIALS  
Cvii. INSTABILITY OF ARCH DUE TO UNSYMMETRICAL LOADING  
Cviii. EXCAVATIONS  
Cix. TOE OF EMBANKMENT STABILITY

These notes are based on the use of experienced and competent contractors carrying out the work using an approved safe method of working.

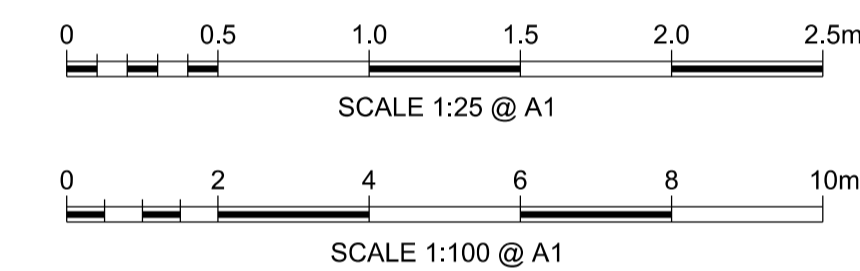
**INDICATIVE CONSTRUCTION SEQUENCE**  
- DEVEGETATION ON AND WITHIN 3m OF THE STRUCTURE.  
- REMOVAL OF EXISTING TRACK FORMATION.  
- EXCAVATION OF FILL. EXCAVATION TO BE BENCHED OR SLOPED AT A SAFE ANGLE. EXCAVATION TO BE COMPLETED IN STEPS MAINTAINING SYMMETRICAL LOADING OF THE ARCH.  
- CARRY OUT MASONRY REPAIRS TO THE ARCH BARREL.  
- INSTALL CONCRETE SADDLE AND WATERPROOFING.  
- BACKFILL. TO BE CARRIED OUT IN STEPS MAINTAINING SYMMETRICAL LOADING OF THE ARCH.  
- REPAIR, EXTEND AND RAISE BRIDGE PARAPETS.  
- INSTALL KEE KLAMP HANDRAILS.  
- CARRY OUT MASONRY REPAIRS TO THE REST OF THE STRUCTURE.  
- INSTALL POST AND WIRE ON WINGWALLS



A SECTION OF SADDLE

SCALE 1:25

- Legend/Notes
1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS STATED OTHERWISE. LEVELS IN METRES IN RELATION TO METROWEST 1 SITE WIDE SURVEY.
  2. DO NOT SCALE FROM THIS DRAWING.
  3. NO PUBLIC RIGHT OF WAY TO BE MAINTAINED.
  4. THE STRUCTURAL ASSESSMENT OF THE UNDERBRIDGE SHOWS INSUFFICIENT CAPACITY FOR R8B LOADING ASSUMING FULL LOSS OF THE FIRST ARCH RING. R8B CAPACITY IS ACHIEVED WITH 30mm MORTAR LOSS TO THE FIRST ARCH RING.
  5. ALL VEGETATION ON OR WITHIN 3m OF THE STRUCTURE TO BE TREATED AND REMOVED. ROOT SYSTEMS TO BE REMOVED AS FAR AS IS PRACTICAL AND ANY STRUCTURAL ELEMENTS MADE GOOD.
  6. NEW STONES AND BRICK MASONRY TO MATCH EXISTING IN COLOUR AND FEATURES AS FAR AS IS PRACTICAL.
  7. STONES AND BRICK MASONRY BONDS AND JOINTS TO MATCH EXISTING. LIME MORTAR TO BE USED TO AVOID ENTRAPMENT OF MOISTURE INSIDE THE STRUCTURE.
  8. NEW PARAPET TO BE BUILT IN ENGINEERING BRICKS. COPING STONES ON NORTH FACE TO BE PRESERVED AND REUSED. NEW COPING STONES ON SOUTH FACE TO MATCH THE EXISTING IN COLOUR AND FEATURES AS FAR AS IS PRACTICAL.
  9. EXCAVATION AND BACKFILL TO BE UNDERTAKEN IN STAGES TO MAINTAIN SYMMETRICAL LOADING OF THE ARCH.
  10. TEMPORARY SUPPORT TO BE PROVIDED TO SPANDREL AND PARAPET WALLS IF NECESSARY.
  11. CONTINUOUS POSITION OF SAFETY TO BE INTERRUPTED FOR THE LENGTH OF THE BRIDGE. 'LIMITED CLEARANCE' SIGNS TO BE INSTALLED ON EACH SIDE OF THE SOUTH BRIDGE PARAPET.
  12. SADDLE DRAINAGE TO OUTFALL AT DITCH AT TOE OF THE EMBANKMENT. DRAINAGE DETAILS TO BE CONFIRMED AT DETAILED DESIGN.



Rev	Date	Description of Revisions	Drawn	Chkd	Appr
A01	23/07/19	FOR DCO APPLICATION		JB	RS

Status: S2



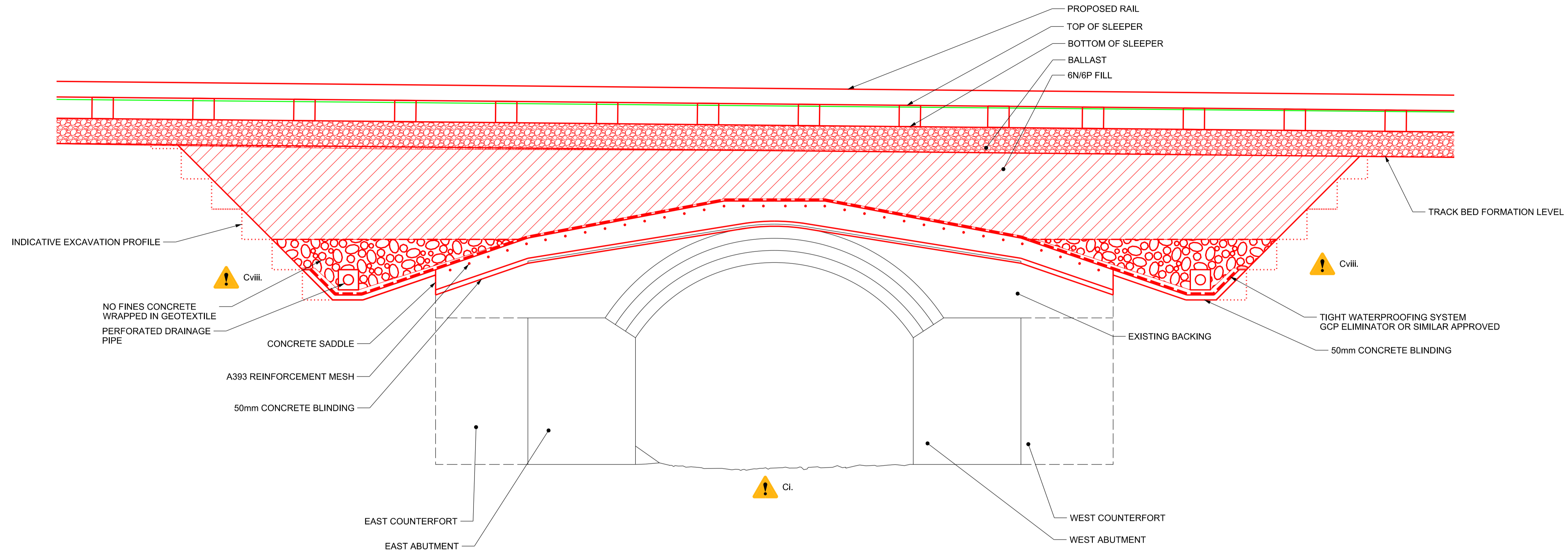
Project: PORTISHEAD BRANCH LINE (METROWEST PHASE 1)

Drawing Title: CATTLE CREEP PROPOSED GENERAL ARRANGEMENT SHEET 1 OF 2

Designed	I.MUKOV	Signed		Date	23/07/19
Drawn	J.BACINSKI	Signed		Date	23/07/19
Checked	R. SNELL	Signed		Date	23/07/19
Approved	R. SNELL	Signed		Date	23/07/19

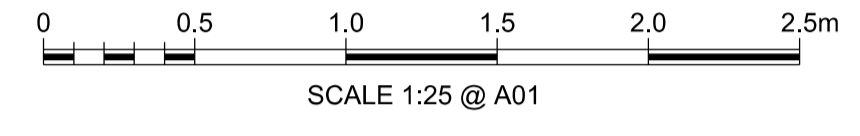
Scale(s): As Shown  
Alternative Reference: ELR & Mileage  
Drawing Number: W1097B-ARP-DRG-ECV-300003





**B** SECTION OF SADDLE  
000004 SCALE 1:25

- Legend/Notes
1. FOR NOTES REFER TO DRAWING W1097B-ARP-DRG-ECV-300003
  2. BACKING DIMENSIONS SHOWN DERIVED FROM 1865 RECORD DRAWING AND INTRUSIVE INVESTIGATION FROM 6th-7th NOVEMBER 2018. DIMENSIONS TO BE CONFIRMED AFTER EXCAVATION.
  3. CONCRETE SADDLE TO HAVE A MINIMUM THICKNESS OF 200mm.
  4. DRAWING IS BASED ON DESIGN DELIVERY NETWORK RAIL DRAWING - W1097J-NRD-DRG-ECV-000005 - A2.



**Safety, Health and Environmental Information**  
Notes below are additional to hazards/risks normally associated with this type of work:

**Construction**  
 C.i. UTILITIES ARE PRESENT ACROSS THE SITE  
 C.iii. LOOSE / UNSTABLE MASONRY  
 C.iv. WORKING AT HEIGHT  
 C.v. PARAPETS AND SPANDREL WALLS  
 INSTABILITY  
 C.vi. CEMENTITIOUS MATERIALS  
 C.vii. INSTABILITY OF ARCH DUE TO UNSYMMETRICAL LOADING  
 C.viii. EXCAVATIONS

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Rev	Date	Description of Revisions	Drawn	Chkd	Appr	Suitability
A01	23/07/19	FOR DCO APPLICATION	JB	RS	RS	
Status						S2



Contractor(s)

**ARUP**  
63 St Thomas Street  
Bristol BS1 6JZ  
Tel +44(0)117 976 5432 Fax +44(0)117 976 5433  
www.arup.com

Project  
**PORTISHEAD BRANCH LINE  
(METROWEST PHASE 1)**

Drawing Title  
**CATTLE CREEP  
PROPOSED GENERAL  
ARRANGEMENT  
SHEET 2 OF 2**

Designed	I.MUKOV	Signed	Date	23/07/19
Drawn	J. BACINSKI	Signed	Date	23/07/19
Checked	R. SNELL	Signed	Date	23/07/19
Approved	R. SNELL	Signed	Date	23/07/19
Scale(s)	As Shown	ELR & Mileage	POD 128MI64CH	
Alternative Reference				Sheet
				2 of 2
Drawing Number	W1097B-ARP-DRG-ECV-300004			Revision
				A01