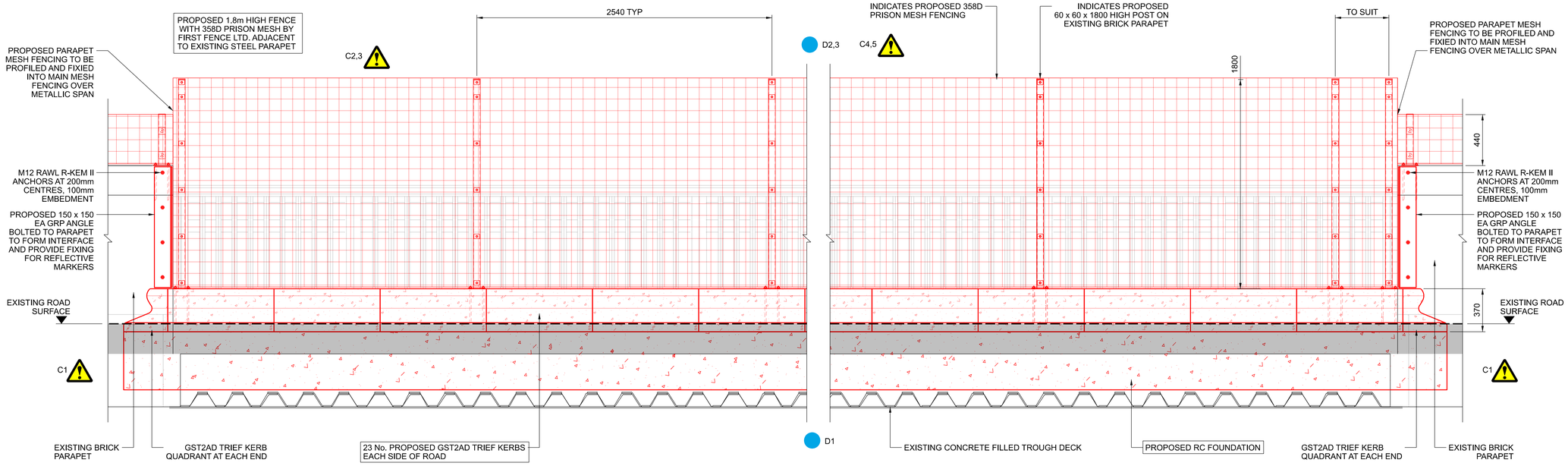
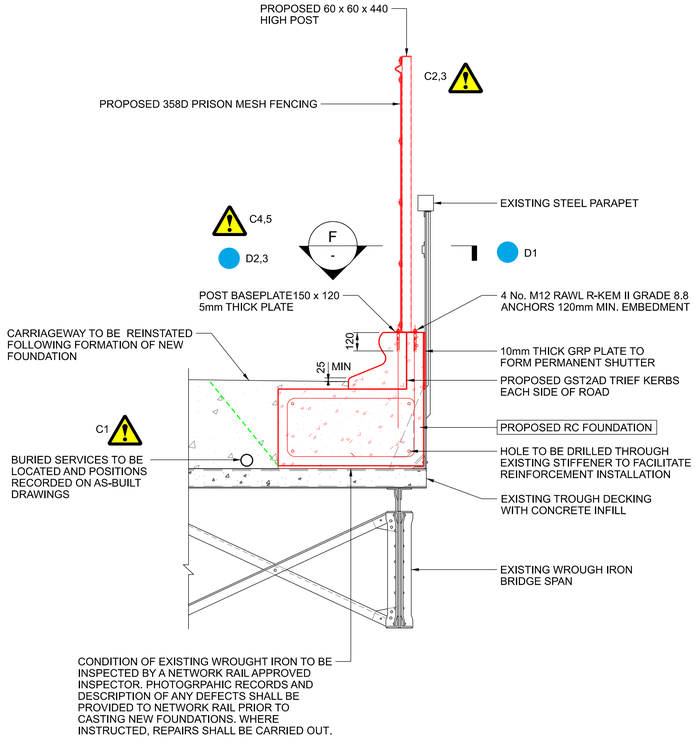


2 / 0002 DETAIL ON PROPOSED ANTI-CLIMB WORKS (ADJACENT TO STEEL PARAPET)

1:20

0 0.4 0.8 1.2 1.6 2.0m

SCALE 1:20

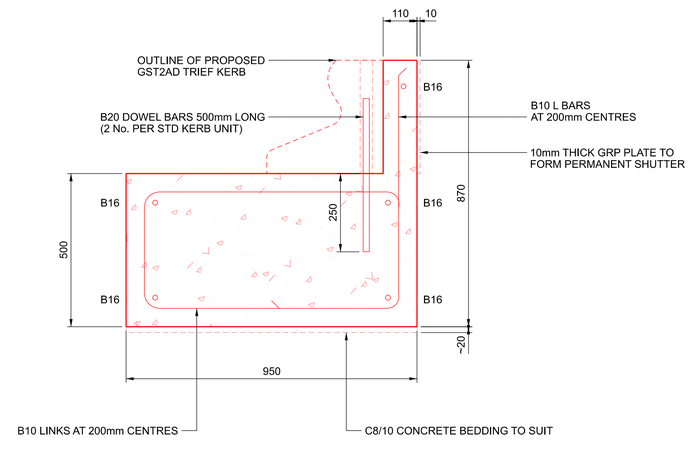


3 / 0002 POST FIXING DETAIL (ON BRIDGE PARAPET)

1:20

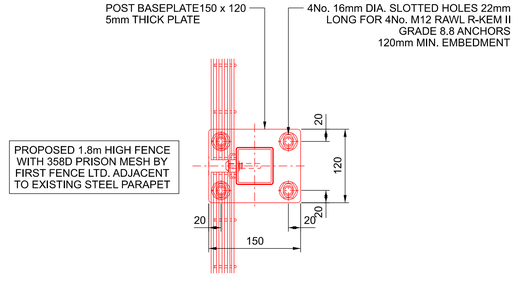
0 0.4 0.8 1.2 1.6 2.0m

SCALE 1:20



- / - PROPOSED RC FOUNDATION DETAIL (ON BRIDGE PARAPET)

1:10



F / - SECTION ON POST FENCE

1:5

0 100 200 300 400 500mm

SCALE 1:5

KEY	COLOUR	USE
———	BLACK	EXISTING OR UNCHANGED
———	BLUE	MODIFIED OR TO BE REMOVED
———	GREEN	REDUNDANT OR TO BE REMOVED
———	RED	NEW, PROPOSED OR ADDITIONAL
———	MAGENTA	BY OTHERS

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

Key to Health and Safety Symbols

- Indicates a residual risk requiring a compulsory action.
- Indicates a residual risk for information
- Indicates a residual risk requiring a prohibitive action
- Indicates a residual risk as a warning

SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION

NOTES BELOW ARE ADDITIONAL TO HAZARDS/RISKS NORMALLY ASSOCIATED WITH THIS TYPE OF WORK. NUMBERS CORRESPOND TO RISK REGISTER REFERENCES - SEE GENERAL NOTES DRAWING FOR DETAILS.

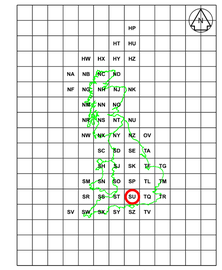
CONSTRUCTION

- D1 STRUCTURAL FAILURE TO EXISTING STRUCTURE
- D2 IMPACT / LOADING FROM PEDESTRIANS & WIND
- D3 IMPACT / LOADING FROM VEHICLES
- C1 EXISTING BURIED SERVICES
- C2 FALLS FROM HEIGHT
- C3 FALLING DEBRIS / MATERIALS / EQUIPMENT ON TO RAILWAY
- C4 VEHICLE IMPACT
- C5 ELECTROCUTION

MAINTENANCE

Dismantling / Demolition (Future)
No risk indentified

Refer to general notes and the Principal Contractor for more information about the risks associated with this work.



KEY PLAN
(NTS)

CONCRETE:

1. CONCRETE MIXES :
   - FOUNDATIONS :- C32/40
   - BLINDING/BEDDING :- C8/10
   - MAX WATER /CEMENT RATIO :- 0.55
   - MIN CEMENT CONTENT :- 300kg/m³
   - CEMENT TYPE :- CEM IVB-V
   - MAX AGGREGATE SIZE :- 20mm
2. CONCRETE TO BE CURED BY APPROVED METHOD FOR A MINIMUM OF 7 DAYS. FOR GUIDANCE REFER TO 'CONCRETE ADVICE DOCUMENT No. 20' BY 'THE CONCRETE SOCIETY '
3. CARE IS TO BE TAKEN TO PROTECT CONCRETE FROM ADVERSE WEATHER. FOR GUIDANCE REFER TO 'CONCRETE ADVICE DOCUMENT No. 20' BY 'THE CONCRETE SOCIETY '.
4. SAMPLING AND TESTING OF CONCRETE IS TO BE CARRIED OUT IN ACCORDANCE WITH BS EN 12350-1 & 2. FOR GUIDANCE REFER TO 'CONCRETE ADVICE DOCUMENT No. 30' BY 'THE CONCRETE SOCIETY.
   - FIVE CUBES SHALL BE CAST FOR EACH MAIN ELEMENT
   - 2 TO BE CRUSHED AT 7 DAYS
   - 2 TO BE CRUSHED AT 28 DAYS
   - 1 SPARE

REINFORCED CONCRETE:

1. REINFORCEMENT IS TO BE CUT AND BENT IN ACCORDANCE WITH BS 8666.
2. RIBBED BAR REINFORCEMENT IS TO BE B500B IN ACCORDANCE WITH BS 4449 STANDARD FABRIC REINFORCEMENT IS TO BE B500B IN ACCORDANCE WITH BS 4483.
3. COVER TO REINFORCEMENT TO BE MIN 60mm.
5. BAR SCHEDULES ARE TO BE CHECKED BY THE CONTRACTOR BEFORE STEEL IS ORDERED.
7. REINFORCEMENT AND FORMWORK TO BE THOROUGHLY CHECKED BEFORE CONCRETING.
8. CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL TEMPORARY REINFORCEMENT, SUCH AS CHAIRS, THAT MAY BE REQUIRED.

DOWEL BARS:

1. ALL DOWEL BARS TO BE STAINLESS STEEL GRADE A4-70.

Rev	Date	Description of Revisions	Drawn	Chkd	Appr
B01	15/10/25	ISSUED FOR APPROVAL	NR	JMF	BS
A01	08/09/25	ISSUED FOR IDC	GJK	GW	AH

Status: FOR APPROVAL

Network Rail

Contractor(s): Balfour Beatty

Project: WESTERN REACTIVE WARREN ROAD BRIDGE

Drawing Title: PROPOSED WARREN ROAD OVERBRIDGE PARAPET AND ANTI-CLIMB WORKS PROPOSED DETAILS - SHEET 2 OF 2

Designed	J. FRITH	Signed	JMF	Date	15/10/25
Drawn	N. REINHARDT	Signed	NR	Date	15/10/25
Checked	J. FRITH	Signed	JMF	Date	15/10/25
Approved	B. STANKOVIC	Signed	BS	Date	15/10/25

Scale(s): AS SHOWN
ELR & Mileage: MLN1 - 3329 33m 29ch
Alternative Reference:
Sheet: 4 of 5
Drawing Number: 02003-BBR-DRG-CIV-0004
Revision: B01

Sheet Size A1 594 x 841