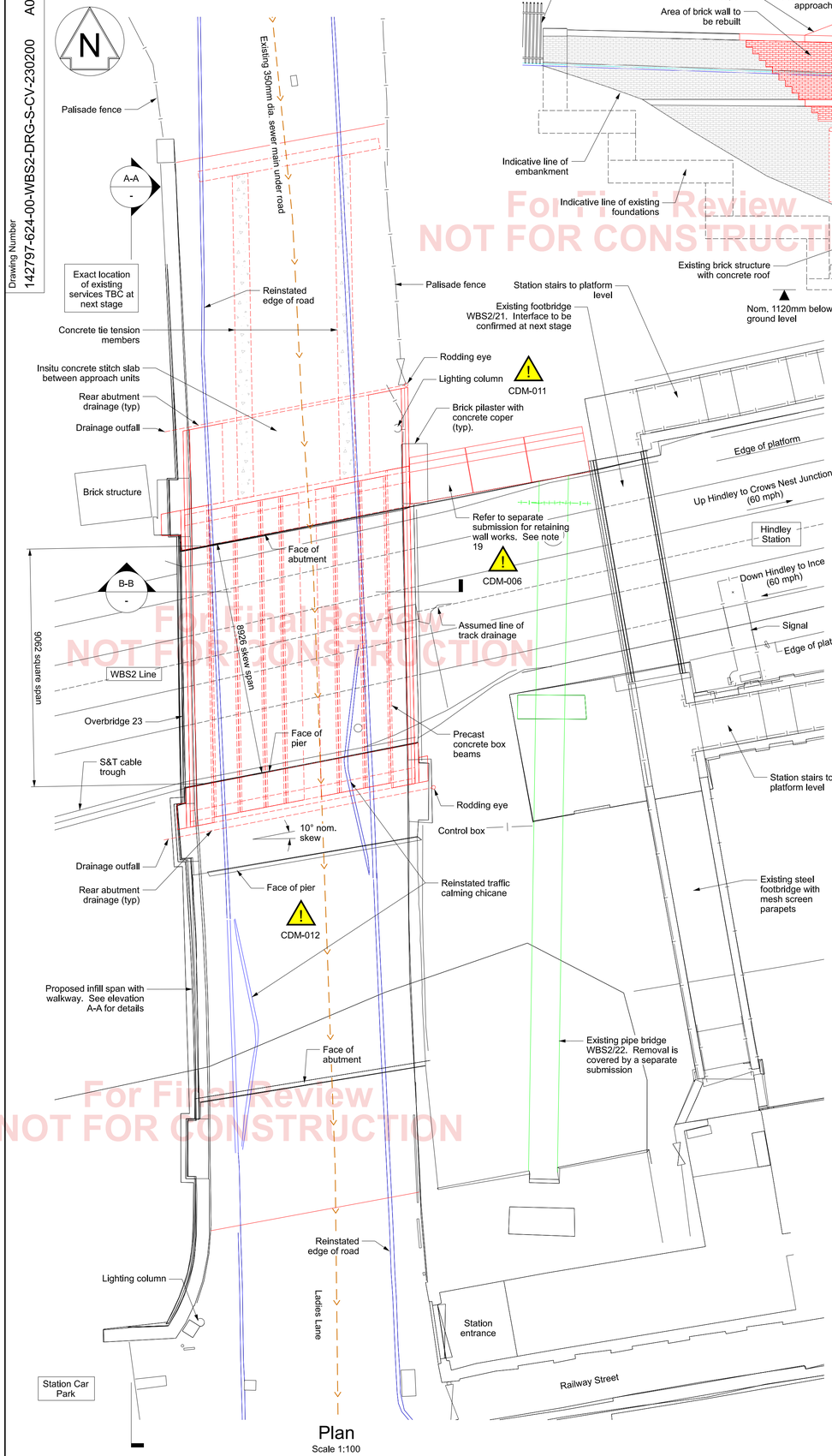
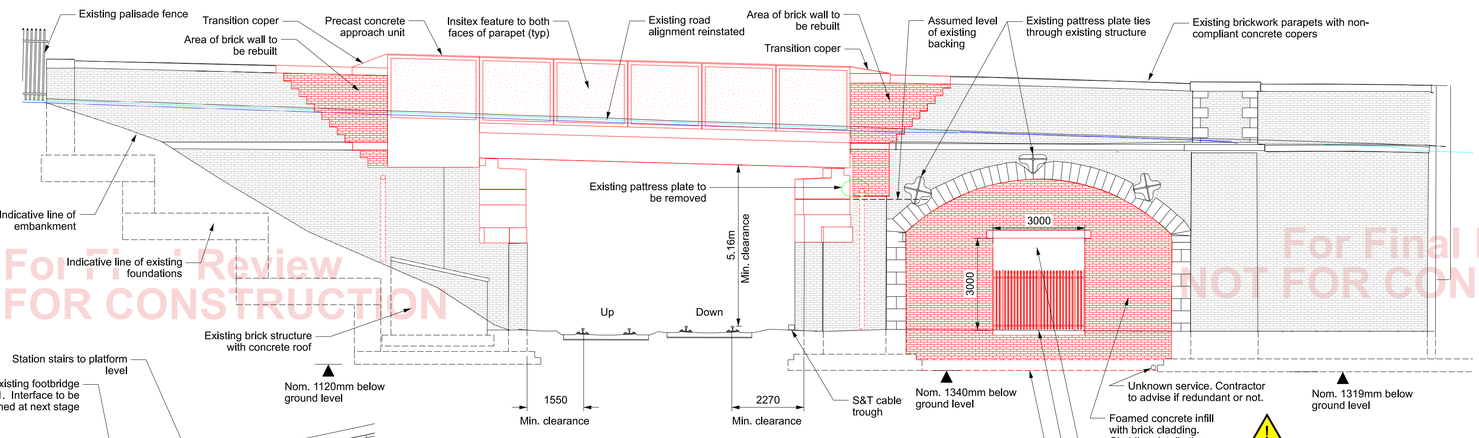
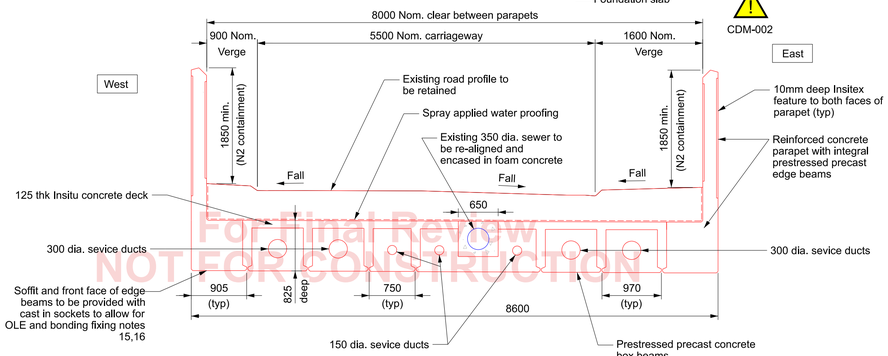
Drawing Number
142797-624-00-WBS2-DRG-S-CV-230200 A01



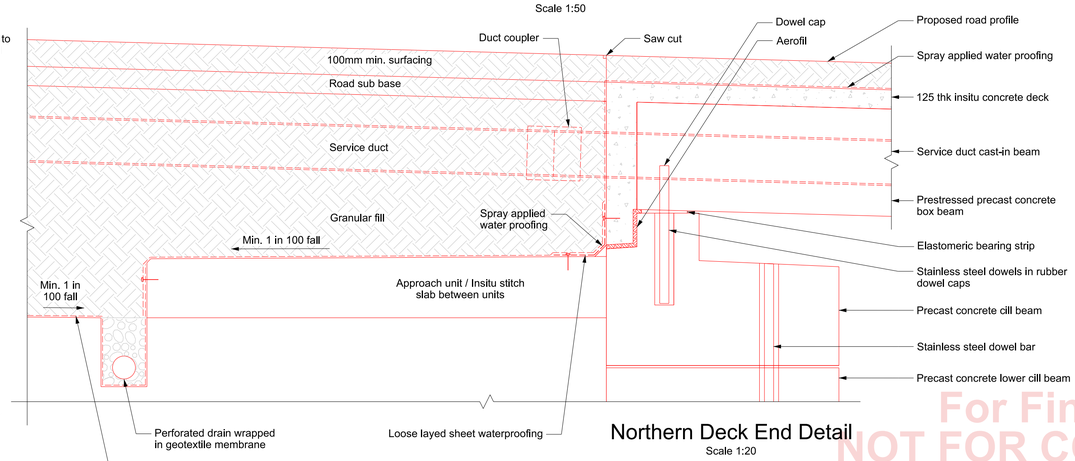
Plan
Scale 1:100



Elevation A-A
Scale 1:100



Section B-B
Scale 1:50



Northern Deck End Detail
Scale 1:20

KEY	COLOUR	
	BLACK	EXISTING OR UNCHANGED
	BLUE	MODIFIED OR TO BE MOVED
	GREEN	REDUNDANT OR TO BE REMOVED
	RED	NEW, PROPOSED OR ADDITIONAL
	PURPLE	TEMPORARY / WORKS BY OTHERS
	GREY	OS / SURVEY DATA

0 1 2 3 4 5m
SCALE 1:50

0 2 4 6 8 10m
SCALE 1:100

SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION

THE FOLLOWING NOTES HIGHLIGHT SIGNIFICANT RESIDUAL HAZARDS IDENTIFIED BY THE DESIGNER. TYPICAL HAZARDS THAT SHOULD BE IDENTIFIED BY A COMPETENT CONTRACTOR ARE NOT INCLUDED. THE CONTRACTOR SHALL CARRY OUT THE WORKS USING AN APPROVED SAFE SYSTEM OF WORK.

FURTHER INFORMATION ON HAZARDS CAN BE FOUND IN THE DRA AND / OR CSM HAZARD LOG.

REF.	HAZARD	STAGE	MITIGATING MEASURE
CDM-001	*Collapse of southern span.*	C	*Ensure redundant span is infilled prior to removing the arch over the live span.*
CDM-002	*Instability of edge girders.*	C	*Edge beams will need to be temporarily supported during the construction.*
CDM-004	*Hydrogen gas produced by foamed concrete. Resulting in a build up of gas leading to potential ignition and explosion.*	C	*Incinerator bottom ash not to be used in the foamed concrete.*
CDM-008	*Risk of electrocution to bridge users from new OLE.*	O/M	*Parapets to bridge to be min. 1.8m high providing protection by obstacle. Bridge to also be fitted with OLE warning signs to each approach and above each line.*
CDM-009	*Destabilising retaining wall to the northeast of the proposed bridge deck.*	C	*Assessment of wall has been undertaken. Required temporary and permanent works to be taken into account during construction. See separate submission for requirements.*
CDM-011	*Lamp post interface.*	-	*Interface with lamp post to be reviewed at the next stage.*
CDM-012	*Sewer realignment required.*	-	*Ongoing discussions with UU are being undertaken to ensure sewer realignment is acceptable.*

Legend/Notes

1. All dimensions are in millimeters (mm) unless noted otherwise. Only figured dimensions are to be used.
2. All levels are in meters (m) above MOLEUX11 SnakeGrid datum unless noted otherwise
3. All dimensions shown are nominal and based upon site measurements and topographical survey carried out in august 2021
4. The bridge will provide a minimum clearance of 5.16m with a 50mm construction tolerance
5. This drawing is to be read in conjunction with the form A document 142797-624-00-WBS2-FOA-W-CV-230700 and form 6 document 142797-624-00-WBS2-REP-W-CV-230800
6. Carriageway to be reinstated to tie into existing profile at either end of approaches with cross fall to deck as shown.
7. Brickwork repairs to substructure to include repointing and stitching to cracks
8. Railway structure including S&T to be protected during demolition of existing structure
9. The opening underneath the redundant span has been sized to allow a MEWP to pass through. Signage is to be installed to advise on the size of the opening.
10. Bridge deck is to be supported on elastomeric bearings
11. Waterproofing to deck to be Network Rail approved spray applied acrylic system (TBC)
12. Bonding requirements to bridge TBC by Atkins at form B stage
13. Positioning of services in bridge shown indicatively, size and position to be agreed with statutory authorities
14. External concrete finishes to approach and cill units TBC. Cladding details TBC.
15. Sockets to be provided to edge beam to allow for fixing of flashover strips and OLE bonding cables in accordance with OLE designer requirements (TBC at GRIP 5).
16. Fixing channels for OLE bridge arms to be provided to the bridge soffit in accordance with OLE designer requirements (TBC at GRIP 5)
17. OLE warning signs to be attached to each parapet over each track in accordance with NR Letter of Instruction NR/BS/LI/331 Issue 2 and Railway Group Standard GM/RT1047. Electrocution warning signs shall be installed on the inside faces of parapets over or adjacent to exposed OLE. Electrocution warnings signs to be in accordance with BS ISO 7010 (Type w501.BS) and designed in accordance with BS ISO 3864-1. The hazard triangle shall be accompanied by the supplementary test 'Danger - Live Wires Below'.
18. Approximate lifting weights are as follows:
    Edge beams with integral parapet: 42t
    Inner beams: 750mm wide: 15t. 970mm wide: 20t
    Approach units: 7t
    Cill units: max. 46t
19. Existing retaining wall stability to be covered by a separate Form A submission. (Document referernce: 142797-624-00-WBS2-FOA-W-CV-220700)
20. A provisional track vertical allowance (TVA) of 50mm has been provided for in the AiP design. Final TVA allowance will be confirmed at Form B/GRIP 5 stage following completion of the OLE and managed track positions.
21. New green datum plates to be fitted to both abutments.

Rev	Date	Description of Revisions	Drawn	Chkd	Appr
P01	01/08/22	First Issue	DS	DS	
P02	08/08/22	Updated for internal comments	DS	DS	
P03	24/08/22	For Form A Approval	AD	LB	DS
A01	24/08/22	For Form A Approval	AD	LB	DS

Status: Fit for Internal Review & Comment
Suitability: S3

NetworkRail

Authorised | Signed | Date

Contractor(s): Buckingham Group Contracting Ltd

Location: CROW NEST JN - WIGAN WALLGATE JN (LOSTOCK-PEMBERTON LINE
Type: Drawings | Sub-type:
Role: Structural Engineer | Sub-Role: Civil Engineering Structures
Zone:
Phasing: | Project Stage:
Project: North West and Central
Contract No.: 142797
Contract Title: Wigan to Bolton Electrification
Drawing Title: WBS2 - 23 Ladies Lane Proposed General Arrangement

		Signed	Date
Designed			24/08/22
Drawn	A.Dutton	Electronically Signed	24/08/22
Checked	L.Barraclough	Electronically Signed	24/08/22
Approved	D.Smaller	Electronically Signed	24/08/22

Scale(s):
ELR & Mileage: 15.0483 to 0
Alternative Reference:
Sheet: of
Drawing Number: 142797-624-00-WBS2-DRG-S-CV-230200
Revision: A01

Sheet Size A1 594 x 841