Application Ref: 2019/2626/L – Platform 1-6 (Package 2) Method Statement

King's Cross Remodelling Project

Document Reference: 152319-NWR-STM-EMF-000003
Revision: 1.0
Date: January 2021

Contents

Glossary of Terms

Term	Definition
OLE	Overhead Line Equipment
MEP	Mechanical Electrical Plumbing
SISSS	Station Information and Security Systems
SPT	Signal Base Telephone
AFC	As for Construction
IEP	Intercity Express Programme

1.0 Letter of Appointment

OFFICIAL

Network Rail
Harrison House
Goods Way,
London
N1C 4UR

Pod-Track Limited
Crove House
14 Aintree Road
Perivale
Greenford
Middlesex
UB6 7LA

FAO: Ben Porter
Date: 30th December 2020

Project No: **152319**
Contract number: **N/A**
Project Title: **Kings Cross Remodelling Project**

NR Letter Ref: 152319-NWR-LTR-CCA-000185

Subject: Kings Cross Remodelling Platform Reconstruction Tender

Network Rail confirm that following tender evaluation process to identify a contractor to deliver the Kings Cross Remodelling Platform Reconstruction Package of works has now been finalised. Network Rail can confirm that Pod-Trak Limited have been the successor of the tender evaluation process.

Following the conclusion of the due-diligence checks, Network Rail plan to award the contract for the next phase of Platforms 1-6 to Pod-Trak Limited on 18th January 2021.

Kind regards,

Yours faithfully,
For and on behalf of
Network Rail Infrastructure Limited

Jim Scholes
Employer's Representative Assistant

2.0 Scope of Works

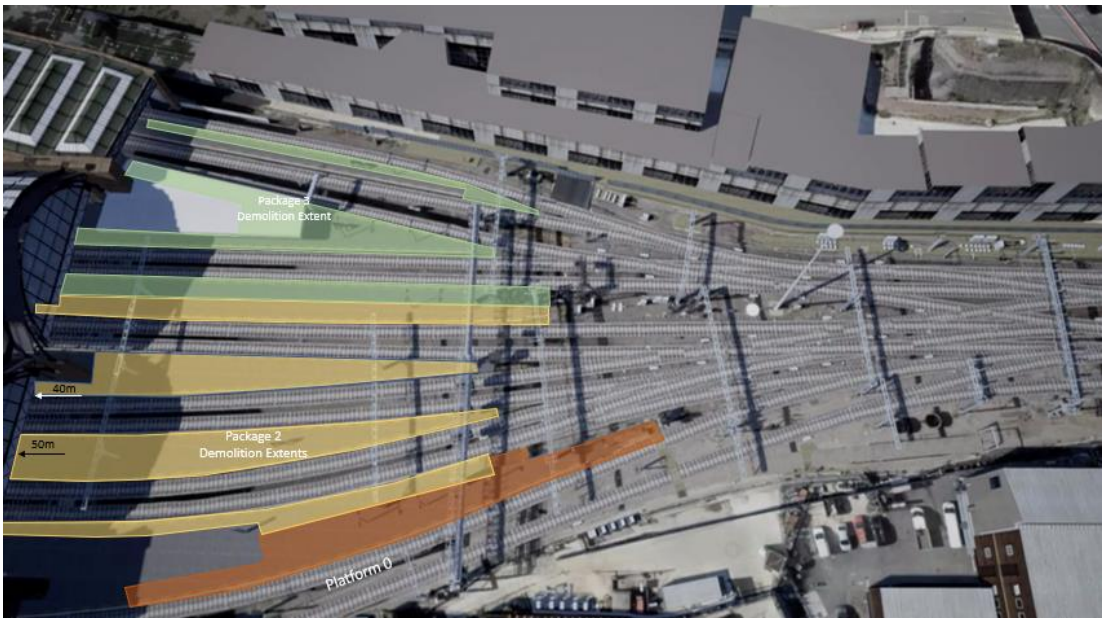
2.1 Introduction

Network Rail is upgrading the infrastructure in the King's Cross throat which is life expired and requires renewing. The scope of the project is to install a new Permanent Way alignment and subsequent coper realignment to improve stepping and gauging at King's Cross Station. The remodelling project will reduce journey times, simplify the station approach, support an enhanced timetable that also improves operational performance, maintenance, and faulting.

King's Cross Station is a Grade I listed building. All works will be subject to the requirements of English Heritage in general, and specifically conditions associated with Listed Building Consent 2019/2626/L (approved) to cover this scheme. Network Rail expects that the successful contractor will be experienced in working within and around a Grade 1 listed building. This document refers to the platform 1-6 (Package 2) construction and the describes the scope of work associated.

2.2 Scope

Alteration to King's Cross station platform 1-6 to accommodate the revised track alignment and locally extended to achieve 10 car IEP platform lengths.



Phase 2 works extent (yellow)

The principal items of work are as follows:

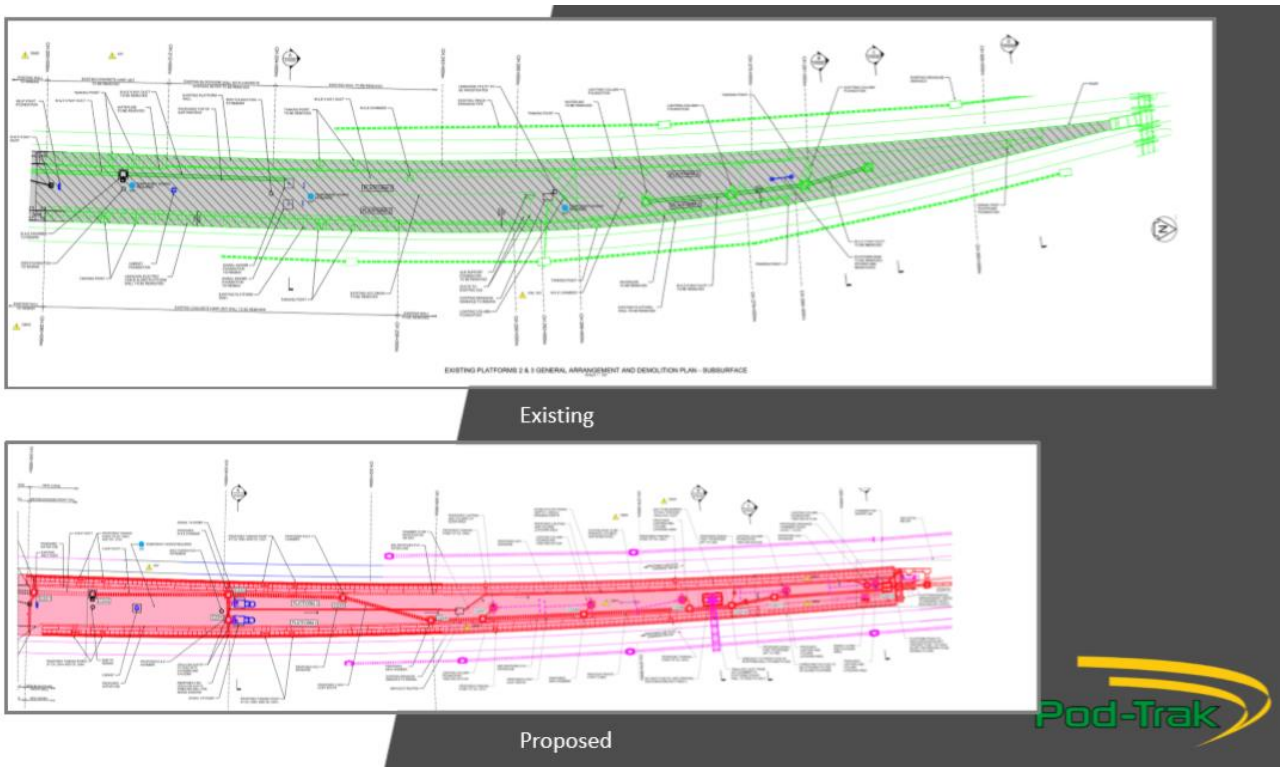
- The Contractor shall construct all ancillary civils works including all non-OLE concrete bases, platform cables routes and platform/canopy drainage.
- The Contractor shall carry out all necessary works to platforms 1-6 including the demolition of existing platforms, construction of platforms extensions for longer trains. Platform modifications to accommodate track realignment and slews, coper-adjustments to improves stepping distances. Track will be installed to AFC prior to coper alignment works.
- The Contractor will carry out all necessary platform re-surfacing, white lining, platform Cable Management System (CMS) installation, ducting, platform drainage, platform SPT bases, ancillary bases for Customer Communication Information System (CCIS) routes & bases, SISS and lighting.
- The Contractor will adjust and re-instate tanking points, including MEP works, in their existing locations where these require attention.
- The Contractor will ensure platform end ramps are removed and steps provided with appropriate fencing and gates.
- The Contractor will construct OLE foundations, signal bases and blanking boards, as indicated in the AFC design.

- The Contractor shall install the foundation and alterations required to accommodate Gantry 249.

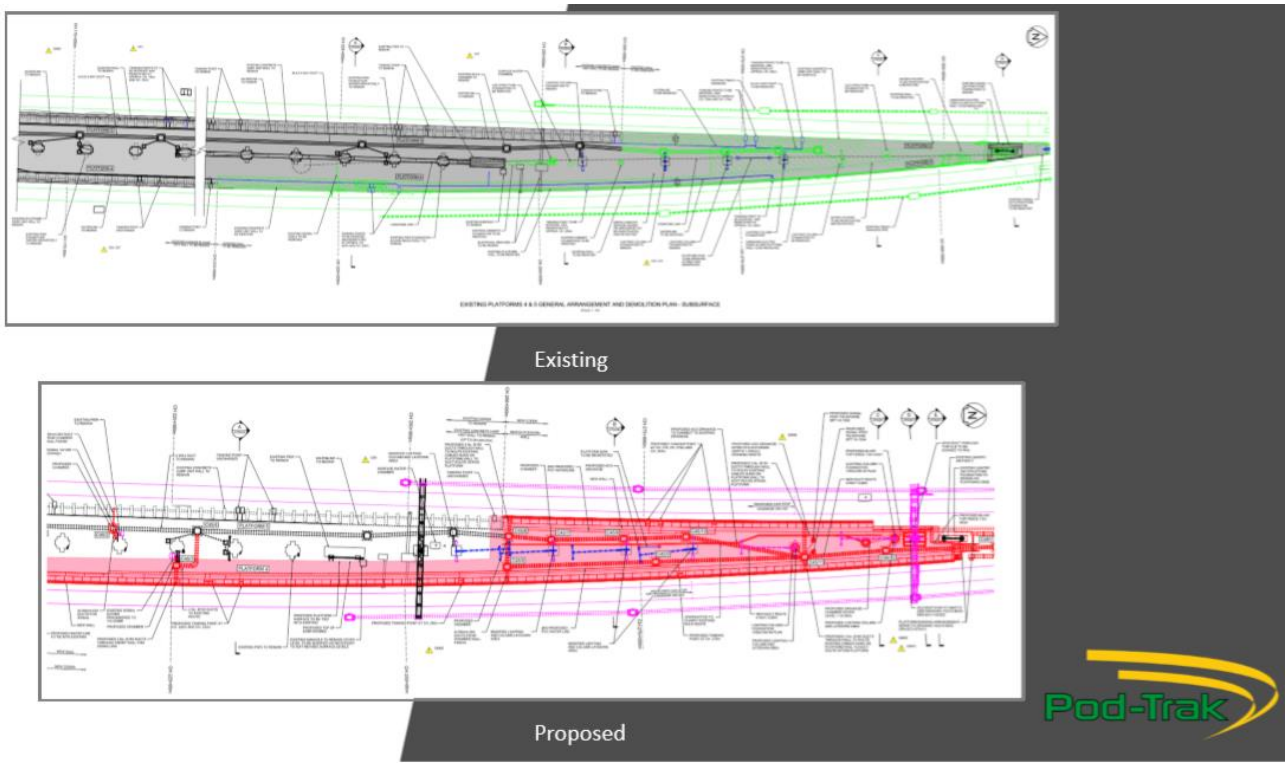
  The delivery will be sent out as per the GRIP 5 designs which are available in section 4.0.

2.3 Platform 1

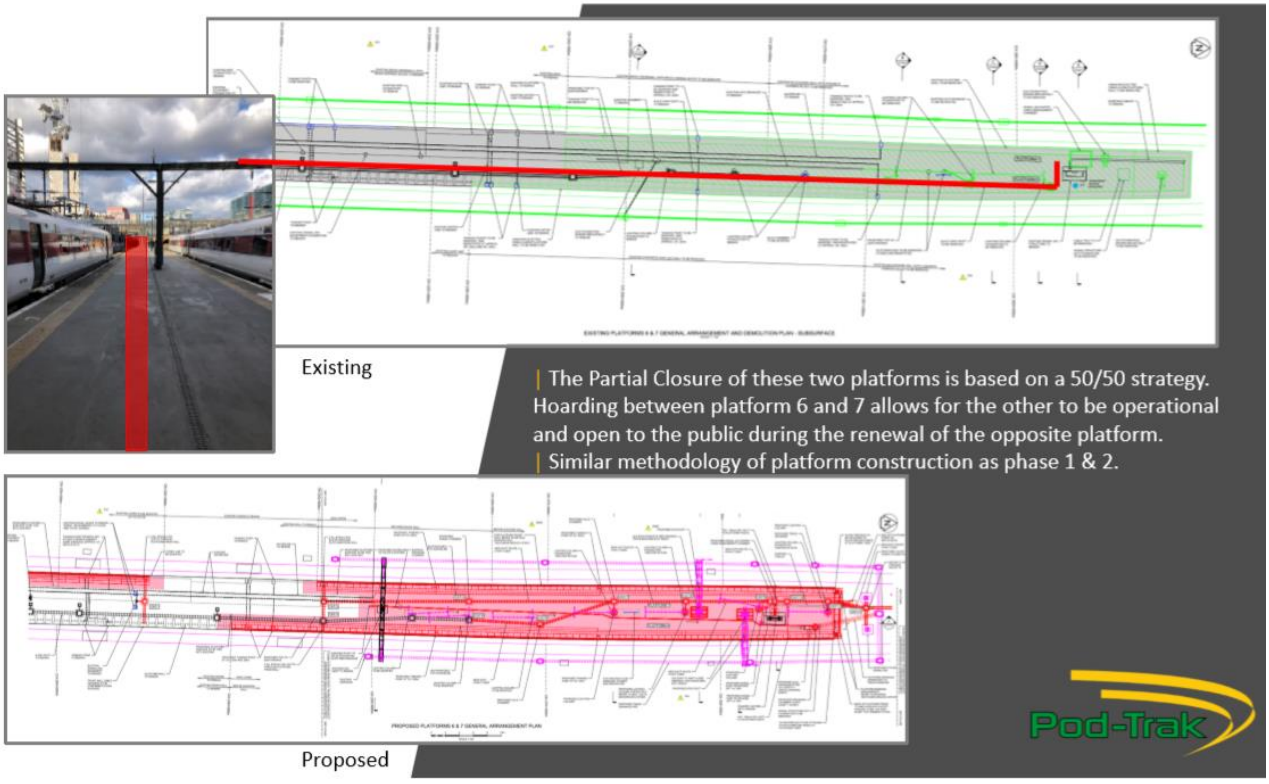
2.4 Platform 2-3



2.5 Platform 4-5



2.6 Platform 6



3.0 Methodology

A detailed staging of the works can be found attached, see *KX Remodelling – Pod-Trak (Civils) staging programme v6*.

3.1 Platform Demolition

Platform surfaces to be saw cut back to resurfacing extent. The machine lifts copers, oversail blocks and tactile paving and palletises these. The pre-cast elements are to be checked by supervisor for re-use. Elements for re-use are to be separated and cleaned ready for reinstatement.

Excavators will break the platform to required level, mean formation level is 1.2m below existing platform level. In addition, existing front wall foundation is to be removed as indicated in the AFC drawings. All excavations are to be battered back (40-degree batter).

3.2 Earthworks and excavation for foundations

Final excavation within proposed platforms footprint is to be completed with 13t excavators to designed line and level. Foundations are to be excavated to line and level with small excavator.

3.3 Blockwork, oversail blocks, copers and tactile paving installation

Blockwork will be installed as per the AFC design. No blocks will be laid when the temperature is below 4 degrees when temperature is falling, or below 3 degrees when the temperature is rising. The blockwork shall be protected from inclement weather until the mortar is thoroughly set.

Blockwork is to be jointed and pointed with “weathered” or “bucket handle” joints not exceeding 10mm thick, with mortar flushed up solid in every course, including all cross and collar joints. Pointing is to be carried out as the work proceeds while the mortar is still green. No pointing carried out working overhand.

Oversail blocks are to be installed once platform front wall and fill are completed.

- Copers installation is to be undertaken once final alignment on adjacent track to a wall has been achieved.

    1. Copers are to be laid onto 25mm solid layer of mortar.
    2. Typical overhand of copers is 135mm and it shall not exceed 150mm as specified on the Design Drawings.
    3. 10mm joints between copers along the platforms. Fixed joints are to be pointed flush to face of coper & surface of the platform.
    4. Every 5 copers along the platform to have 10mm joint with non-biodegradable fillers board sealed with 20mm deep light grey polysulphide sealant finished flush with platform surface and pointed flush to face of coper.

Tactile paving is to be installed on adequate layer of mortar to match platform surface level.

3.4 Pipework, ductwork and chambers installation

Excavation of the chambers once front wall foundations are constructed. Chamber concrete bases shall be 300mm thick and grade ST5 as per the specification.

Circular Track Drainage chamber, solid section of pipe installed during front wall foundation excavation. Pipe set to designed gradient and backfilled as per specification for track drainage carrier pipe.

1. Once front wall foundation constructed, the section of pipe is to be exposed and part cut off to accommodate circular chamber.
2. Concrete base and surround to the inlet & outlet pipes constructed as per the design detail
3. Pre-cast concrete segmental manhole units shall be handled and assembled in accordance with the manufacturer's instructions.

3.5 Finishing works:

Platform furniture is to be reinstated as per design drawings. Any furniture stored away at the start of the package 1 is to be cleaned prior to reinstatement.

Remaining platform surface to be tarmacked to match existing.

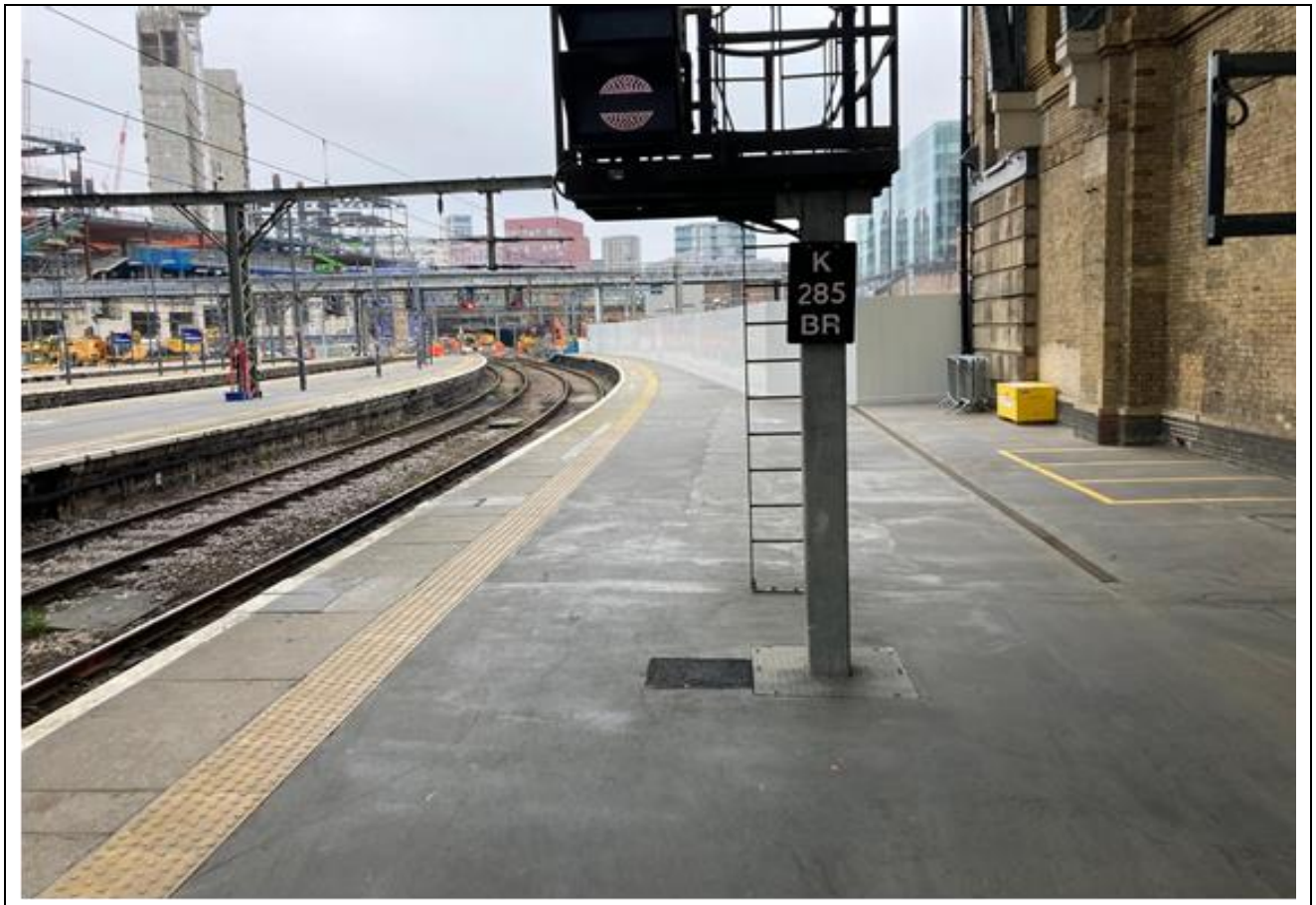
End of platform fencing & stairs are to be installed as per design drawing

4.0 Drawings

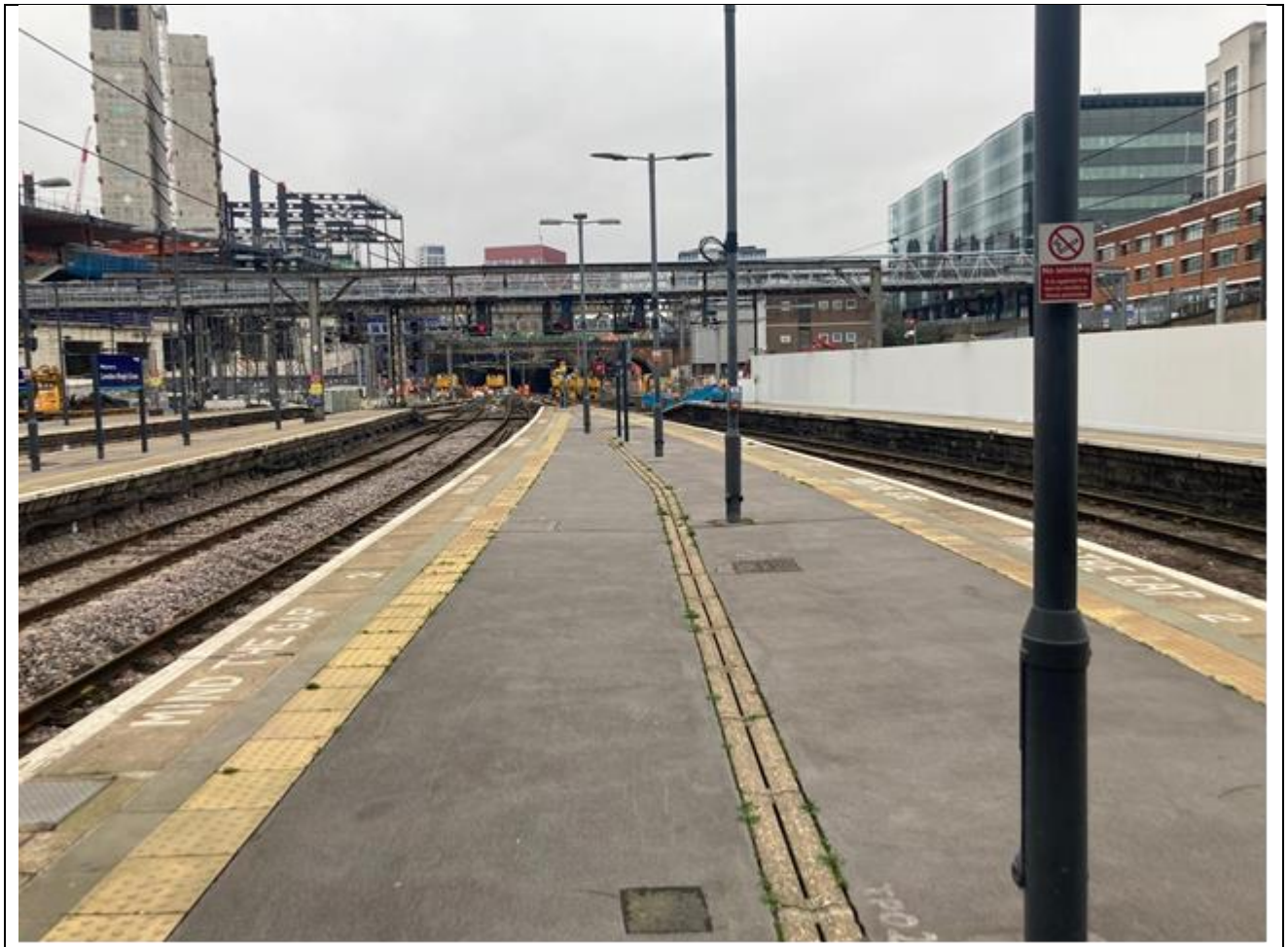
Document Number	Title
152319-MOS-DRG-ECV-070011	EXISTING PLATFORM 0/1 DEMOLITION PLAN - SUBSURFACE
152319-MOS-DRG-ECV-070012	EXISTING PLATFORM 0/1 DEMOLITION PLAN – SURFACE 1 OF 2
152319-MOS-DRG-ECV-070013	EXISTING PLATFORM 0/1 DEMOLITION PLAN – SURFACE 2 OF 2
152319-MOS-DRG-ECV-070014	EXISTING PLATFORM 2/3 DEMOLITION PLAN - SUBSURFACE
152319-MOS-DRG-ECV-070015	EXISTING PLATFORM 2/3 DEMOLITION PLAN – SURFACE 1 OF 2
152319-MOS-DRG-ECV-070016	EXISTING PLATFORM 2/3 DEMOLITION PLAN – SURFACE 2 OF 2
152319-MOS-DRG-ECV-070017	EXISTING PLATFORM 4/5 DEMOLITION PLAN - SUBSURFACE
152319-MOS-DRG-ECV-070018	EXISTING PLATFORM 4/5 DEMOLITION PLAN – SURFACE 1 OF 2
152319-MOS-DRG-ECV-070019	EXISTING PLATFORM 4/5 DEMOLITION PLAN – SURFACE 2 OF 2
152319-MOS-DRG-ECV-070020	EXISTING PLATFORM 6/7 DEMOLITION PLAN - SUBSURFACE
152319-MOS-DRG-ECV-070021	EXISTING PLATFORM 6/7 DEMOLITION PLAN – SURFACE 1 OF 2
152319-MOS-DRG-ECV-070022	EXISTING PLATFORM 6/7 DEMOLITION PLAN – SURFACE 2 OF 2
152319-MOS-DRG-ECV-070030	EXISTING PLATFORM 0/1 DEMOLITION SECTIONS
152319-MOS-DRG-ECV-070035	EXISTING PLATFORM 2/3 DEMOLITION SECTIONS A-A AND B-B
152319-MOS-DRG-ECV-070036	EXISTING PLATFORM 2/3 DEMOLITION SECTIONS C-C AND D-D
152319-MOS-DRG-ECV-070040	EXISTING PLATFORM 4/5 DEMOLITION SECTIONS A-A AND B-B
152319-MOS-DRG-ECV-070041	EXISTING PLATFORM 4/5 DEMOLITION SECTIONS C-C AND D-D
152319-MOS-DRG-ECV-070045	EXISTING PLATFORM 6/7 DEMOLITION SECTIONS A-A AND B-B

152319-MOS-DRG-ECV-070046	EXISTING PLATFORM 6/7 DEMOLITION SECTIONS C-C AND D-D
152319-MOS-DRG-ECV-070047	EXISTING PLATFORM 6/7 DEMOLITION SECTION E-E
152319-MOS-DRG-ECV-070101	PROPOSED PLATFORMS GA – PLATFORM 0/1
152319-MOS-DRG-ECV-070102	PROPOSED PLATFORMS GA – PLATFORM 2/3
152319-MOS-DRG-ECV-070103	PROPOSED PLATFORMS GA – PLATFORM 4/5
152319-MOS-DRG-ECV-070104	PROPOSED PLATFORMS GA – PLATFORM 6/7
152319-MOS-DRG-ECV-070230	PROPOSED PLATFORM 0/1 SECTIONS B-B AND D-D
152319-MOS-DRG-ECV-070231	PROPOSED PLATFORM 0/1 SECTION G-G
152319-MOS-DRG-ECV-070232	PROPOSED PLATFORM 0/1 SECTIONS H-H AND J-J
152319-MOS-DRG-ECV-070233	PROPOSED PLATFORM 0/1 SECTIONS K-K AND L-L
152319-MOS-DRG-ECV-070235	PROPOSED PLATFORM 2/3 SECTIONS A-A AND B-B
152319-MOS-DRG-ECV-070236	PROPOSED PLATFORM 2/3 SECTIONS C-C AND D-D
152319-MOS-DRG-ECV-070240	PROPOSED PLATFORM 4/5 SECTIONS A-A AND B-B
152319-MOS-DRG-ECV-070241	PROPOSED PLATFORM 4/5 SECTIONS C-C, D-D AND E-E
152319-MOS-DRG-ECV-070245	PROPOSED PLATFORM 6/7 SECTIONS A-A AND B-B
152319-MOS-DRG-ECV-070246	PROPOSED PLATFORM 6/7 SECTIONS C-C AND D-D
152319-MOS-DRG-ECV-070247	PROPOSED PLATFORM 6/7 SECTIONS E-E
152319-MOS-DRG-ECV-070401	PROPOSED PLATFORM DETAILS – GENERAL SHEET 1 OF 2
152319-MOS-DRG-ECV-070402	PROPOSED PLATFORM DETAILS – GENERAL SHEET 2 OF 2

5.0 Supporting Photographs



Platform 1



Platform 2/3

Platform 4/5

Platform 6

Network Rail
1 Eversholt Street
Euston
London
NW1 2DN

www.networkrail.co.uk