



CROSSRAIL CENTRAL SECTION

Construction Certificate

This is Part 1 of 2

CONTRACTOR STATEMENT

Contract Number: C502	Contract Deliverable No: C13.006qa
Contract Name: Liverpool Street Station (Main Station Works, Fit Out & M&E)	Construction Certificate: C502-LAO-C-CER-C101 WS099-50158 Rev 2.0
Contractor Name: Laing O'Rourke	Package Listing & Review Statement: see Part 2 of 2 of this document.
Design Cert: C138-MMD-O-XST-C101-50004: C502 Liverpool Street Station FDS A - Civil, Structural, Architectural and MEP	
Name and location of element of construction: Moorgate – Architectural Works	
Precise limits covered by this certificate: Moorgate - FOH Suspended Ceiling PRM Corridor (CLG-718) - SAS Moorgate Shaft - Finishes/Fit out - Acoustic Insulation Brackets & Panels - 74.000 - 135.000 Level - SAS Moorgate Shaft - Sub Structure (Platform -1 to Street -1) & Super Structure (Street to Street +4) - Finishes - Floor Finish & Plinths - Screed Moorgate Shaft - OSD Level (122.460) Total Access Ballasted Fall Restraint System Type ASE-105 - Total Access UK Ltd - SC9 Moorgate - Street Level +1.5 to Platform Level -1 - Balustrading (Bal-208) - PAD Moorgate - AM-413 CAT Ladders, AM-412 Ship Ladders, BAL-209 Edge protection, BAL-208 Half Stairs, AM-627 Fencing – PAD Moorgate - Riser Z/787, Riser Z/789 & Riser Z/794 - PAD Moorgate - Internals - Riser Z/139 - PAD MTH - Street & Basement Level - Finishes - Benches & Waterproofing Protection, Stainless Steel Guttering & Flashings – Robert Stevens Moorgate - Access Hatch - Surespan Supply/PAD Install AHP-140 Floor Access Hatch & AHP-211 Wall Cavity Inspection Hatches - Surespan Supply/Sharpfibre Install Moorgate - Firestopping - Street Level -1 Steel Protection Spuerlux - Sharpfibre Moorgate - Firestopping - Platform -1 Durasteel Ceiling - Sharpfibre MTH - Protection to Existing Steel Work in Basement (Street Level -1) - Corrosion and Fire Protection - Sharpfibre Moorgate (Street to Street +1.5) - AM-413 CAT Ladder, BAL-209 Handrails and AM-315 Floor Grills - PAD Moorgate - UKPN Louver Door and Panels at Moorgate Street Level - Sunray Moorgate - Acoustic Ductwork Cladding - SAS Moorgate - BOH Suspended Ceiling (CLG-206) - SAS Moorgate - Stainless Steel Panels (IWS-815, CLG-212) - SAS Moorgate - PRM Ramp Balustrade & SOR Ramp Handrail - BAL-208 - PAD Moorgate - PRM Corridor Balustrade- BAL-112 - PAD Moorgate - Ticket Hall Level - FOH Balustrade Around ES5 - BAL-112 - PAD Moorgate Shaft - Sub Structure (Platform -1 to Street -1) - AP6 - AP5 Terrazzo Flooring - Vetter Moorgate Shaft - Kaicer - Works Package 60a - Escalator ES5 - 1st Fix Support Frame, SS Cladding, PPC Cladding & SS Soffit Panels MTH - Kaicer - Works Package 01a,03a,10a - Ticket Hall South and West elevations, Lift 1 Surround, Steelwork, 1st fix Support, STO Glass Cladding, SS Acoustic Panels, SS Trims. MTH - Kaicer - Works Package 05a & 06a - SOR Room (Steelwork, 1st Fix Framing, Cladding Panels, Acoustic Panels, Glass Windows & Fireboard) MTH - Kaicer - Works Package 4a, 4b, 4c - External Facade - 1st Fix Steel Support Frame, Portland Stone Cladding, Blast Enhanced Curtain Wall, STO Glass Cladding, Door & Louvre. Moorgate – Kaicer - Works package 7a & 7b; SOR Lift Corridor Moorgate Shaft - Kaicer - Works Package 33a, 34a - Northern Line Link - 1st Fix Support & STO Glass Cladding Moorgate Shaft - Kaicer - Works Package 13a, 15a - PRM Lift 2 & Lift 7 - 1st Fix Support & STO Glass Cladding MTH - Kaicer - Works Package 11a - Eastbound SL -1 and LU Platforms - 1st Fix Support, STO Glass Cladding, SS Acoustic Panels & Booth Doors	



CROSSRAIL CENTRAL SECTION

Construction Certificate

This is Part 1 of 2

Moorgate - Sub & Superstructure AHP-141 Wall Hatches - Teckentrup
 Moorgate - Finishes - Street & Basement Level - DMC
 Moorgate - Installation of Matwell to Ticket Hall Entrance - DMC
 Moorgate - AP5/AP6 Staircase Signage - Wood & Wood
 Moorgate - Ticket Hall & LU Station Signage - Wood & Wood
 Moorgate - City of London Plaque - Lateral Design Studio Limited
 Moorgate (AP10) - Coopers Fire Curtain
 Moorgate - Firestopping - Platform Level L500 Cable Enclosure - Sharpfibre
 MTH - Kaicer - Works package 09a - Brackets, SS Column skirting, Sill and Head
 Moorgate Shaft - Kaicer - Works package 12a - PRM Corridor (South and Lift 1 Front) - 1st Fix Support & STO Glass Cladding
 Moorgate Shaft - Kaicer - Works Package 65a - PRM Corridor (North) - 1st Fix Support Frame & VE Cladding
 Moorgate - Floor & Wall Paint - Cousins
 Moorgate - Securiclad - Kaicer
 Moorgate - Firestopping - DB Enclosures - Sharpfibre
 Moorgate - Firestopping - Durasteel - Sharpfibre
 Moorgate - Miscellaneous Metal Work - LBS
 Moorgate - Back of House Signage - Links Signs
 Moorgate - General Fire stopping - Sharpfibre
 Moorgate Shaft - Kaicer - Works Package 30a - 1st Fix Support Steel and Louvres
 Moorgate - Installation of Teckentrup Door Sets (Levels: Street -1 to Street +2)
 Moorgate - Installation of Teckentrup Door Sets (Levels: Platform -1 to Platform +4)
 Moorgate and Blomfield Box Sub Structure - BAL-208 Handrail (PMI-1722 Instruction) - PAD
 Moorgate - Door Frames and Doors - Booth Industries
 Moorgate - Kaicer - Works package 00a - Trellidor Doors / North Gate DRS-552 External Collapsible Gate
 8 Moorfields & 87 Moorgate Building Fit-Out Reinstatement (Hennys)
 Moorgate (Street Level -1) - Glass Balustrade (Bal-112) - Robert Stevens

We certify that the named element of construction, within the limits stated above, has been constructed so as to comply with the relevant Works Information and contract specific data. The setting out, materials and workmanship used, including testing, are in compliance with the requirements of the Contract and the certified design as reflected in the marked up drawings referenced on the attached Part 2 of 2 of this document, the Package Listing, and that the element of works are complete subject to the completion of the Works stated on the Consolidated Outstanding Works List as identified in Section 7 of Part 2 of this document. [Strikeout and mark N/A if Not Applicable.]

Records, in addition to those included in the Package Contents Listing for this Construction Certificate, are included within the following Sub-Construction Certificates Packages which, together, comprise the construction records for the element of construction described above.

C502-LAO-C-CER-C101_WS099-50171	C502-LAO-C-CER-C101-50073	C502-LAO-C-CER-C101-50108	C502-LAO-C-CER-C101_WS099-50133
C502-LAO-C-CER-C101-50115	C502-LAO-C-CER-C101_WS099-50095	C502-LAO-C-CER-C101_WS099-50094	C502-LAO-C-CER-C101_WS099-50100
C502-LAO-C-CER-C101_WS099-50127	C502-LAO-C-CER-C101_WS099-50105	C502-LAO-C-CER-C101_WS099-50155	C502-LAO-C-CER-C101_WS099-50178
C502-LAO-C-CER-C101-50112	C502-LAO-C-CER-C101_WS099-50101	C502-LAO-C-CER-C101_WS099-50182	C502-LAO-C-CER-C101_WS099-50125
C502-LAO-C-CER-C101_WS099-50137	C502-LAO-C-CER-C101_WS099-50173	C502-LAO-C-CER-C101_WS099-50109	C502-LAO-C-CER-C101_WS099-50174
C502-LAO-C-CER-C101_WS099-50175	C502-LAO-C-CER-C101_WS099-50120	C502-LAO-C-CER-C101_WS099-50107	C502-LAO-C-CER-C101_WS099-50143
C502-LAO-C-CER-C101_WS099-50146	C502-LAO-C-CER-C101_WS099-50090	C502-LAO-C-CER-C101_WS099-50188	C502-LAO-C-CER-C101_WS099-50140



CROSSRAIL CENTRAL SECTION

Construction Certificate

This is Part 1 of 2

C502-LAO-C-CER-C101_WS099-50168	C502-LAO-C-CER-C101_WS099-50167	C502-LAO-C-CER-C101_WS099-50180	C502-LAO-C-CER-C101_WS099-50111
C502-LAO-C-CER-C101_WS099-50156	C502-LAO-C-CER-C101_WS099-50181	C502-LAO-C-CER-C101_WS099-50126	C502-LAO-C-CER-C101_WS099-50112
C502-LAO-C-CER-C101_WS099-50183	C502-LAO-C-CER-C101_WS099-50179	C502-LAO-C-CER-C101_WS099-50148	C502-LAO-C-CER-C101_WS099-50139
C502-LAO-C-CER-C101_WS099-50092	C502-LAO-C-CER-C101_WS099-50122	C502-LAO-C-CER-C101_WS099-50154	C502-LAO-C-CER-C101_WS099-50176
C502-LAO-C-CER-C101_WS099-50177	C502-LAO-C-CER-C101_WS099-50160	C502-LAO-C-CER-C101_WS099-50108	C502-LAO-C-CER-C101_WS099-50185
C502-LAO-C-CER-C101_WS099-50141	C502-LAO-C-CER-C101_WS099-50087	C502-LAO-C-CER-C101_WS099-50186	C502-LAO-C-CER-C101-50202
C502-LAO-C-CER-C101_WS099-50118	C502-LAO-C-CER-C101_WS099-50187	C502-LAO-C-CER-C101-50274	C502-LAO-C-CER-C101_WS099-50189
Signed		For and on behalf of:	
Name	Position	Date	
	Project Leader	27/04/2021	

Supervisor's Statement

I accept **Parts 1 and 2** [if applicable] of this Construction Certificate have been populated and signed by a competent individual and the following Defects have been identified in accordance with the **Outstanding Works List** identified in Section 7 of Part 2 of this document. [Strikeout and mark N/A if Not Applicable.]

Signed
Name

Project Manager's Statement

I Confirm acceptance of this Construction Certificate subject to the **Outstanding Works List** as noted above. [Strikeout and mark N/A if Not Applicable]

Signed
Name

Date. 21/05/21



CROSSRAIL CENTRAL SECTION
SUB*/CONSTRUCTION CERTIFICATE Part 2 of 2 or
PACKAGE LISTING

Contract Deliverable No.: C13.006qa SUB-CONSTRUCTION No.: C502 LAO C CER C101_WS099 50158 REV 2.0
 Part 2 of 2

Name and location of element of construction: Construction Completion Certificate Moorgate Architectural Works

Precise limits covered by this package (including temporary works left in place): All packages for the Architectural works on Liverpool Street Moorgate. This certificate only makes reference to Construction level documentation and any items identified in section 7 of the individual sub construction certificates that remain 'open'. All other documentation is listed within the sub construction certificates.

	THE FOLLOWING DOCUMENTS/RECORDS ARE SPECIFIC TO THESE WORKS	DO NOT DELETE 'NOT APPLICABLE' ITEMS	Revision
	Document Title	Document Number	
4	CONSTRUCTION/INSTALLATION RECORDS		
	Deliverable Construction Records relevant to the Construction Certificate Package required by: Part 13 of the Works Information Volume 2B		
4A	General Construction Records		
	Working Drawings (Issued for Construction C0#)	Not Applicable	
	Material Proposal Schedule		
C12.019a	C502 Civil and Architectural Materials Proposal Schedule	C502 LAO C TSC C101 50003	20.0
	Material Compliance Records/Approvals refer to individual Sub Construction Certificates	Not Applicable	
	Factory Acceptance Test Reports	Not Applicable	
	Inspection & Test Plans refer to individual Sub Construction Certificates	Not Applicable	
	ITP Deliverable Records Packages refer to individual Sub Construction Certificates	Not Applicable	
	Construction Method Statements refer to individual Sub Construction Certificates	Not Applicable	
	Short Notice Changes (SNC) refer to individual Sub Construction Certificates	Not Applicable	
	Change Request notices (PMIs) refer to individual Sub Construction Certificates	Not Applicable	
	Requests for Information (RFIs) refer to individual Sub Construction Certificates	Not Applicable	
	Field Change Documents (FCDs) refer to individual Sub Construction Certificates	Not Applicable	
	Non Conformance Reports and Notification of Defects (NCRs) refer to individual Sub Construction Certificates	Not Applicable	
	Technical Reports	Not Applicable	
	Settlement / Damage Reports (Building or Structural)	Not Applicable	
	Archaeological and Historical Building Reports	Not Applicable	
	Surveys (e.g. CCTV Surveys)	Not Applicable	
	Third Party Required Records / Certificates of Acceptance		
	Highways Agency	Not Applicable	
	Local Authority	Not Applicable	
	Gas	Not Applicable	
	Electricity	Not Applicable	
	Water	Not Applicable	
	Telecomms	Not Applicable	
	DLR	Not Applicable	
	LUL	Not Applicable	
	LO	Not Applicable	
	TfL / TfL	Not Applicable	
	NR	Not Applicable	
	Building Controls (CRL or Other)	Not Applicable	
	Revision X0# Red Line Marked up Drawings (incl. Revision X0# identified in section 7 of individual sub construction certificates) refer to individual Sub Construction Certificates	Not Applicable	
C05.003.01a	Health and Safety File as defined in the Works Information Health & Safety File - Brief Description of the Works	C502 LAO Z7 XST C101 50001	1.0
4B	Tunnelling Records:		
	Tunnelling / TBM ITP Deliverable Records Package	Not Applicable	
	Tunnel Alignment and Wriggle Survey	Not Applicable	
	Ring Grouting Records	Not Applicable	
	Pre cast Concrete Segment Casting Records	Not Applicable	
	Pre Cast Concrete Ring Placement Records	Not Applicable	
	Pre Cast Concrete Ring Core Records	Not Applicable	
	Pre Cast Concrete Ring Repair Records	Not Applicable	
	Invert Bar Reinforcement Records	Not Applicable	
	Spheroidal Graphite Iron Segment Casting Records	Not Applicable	
	Spheroidal Graphite Iron Ring Placement Records	Not Applicable	
	Spheroidal Graphite Iron Segment Repair Records	Not Applicable	
4C	Sprayed Concrete Lining (SCL) Records:		
	SCL Construction Management Plan	Not Applicable	
	SCL Key Personnel and Nozzlemen	Not Applicable	
	SCL Installation of Instrumentation Records	Not Applicable	
	SCL RESS	Not Applicable	
	SCL Action Plan	Not Applicable	
	SCL ITP Deliverable Records Package: Primary Lining	Not Applicable	
	SCL ITP Deliverable Records Package: Secondary Lining (including waterproofing)	Not Applicable	
5	SECTION IS NO LONGER REQUIRED		



CROSSRAIL CENTRAL SECTION

SUB*/CONSTRUCTION CERTIFICATE Part 2 of 2 or PACKAGE LISTING

Contract Deliverable No.: C13.006qa SUB-CONSTRUCTION No.: C502 LAO C CER C101_WS099 50158 REV 2.0
Part 2 of 2

Name and location of element of construction: Construction Completion Certificate Moorgate Architectural Works

Precise limits covered by this package (including temporary works left in place): All packages for the Architectural works on Liverpool Street Moorgate. This certificate only makes reference to Construction level documentation and any items identified in section 7 of the individual sub construction certificates that remain 'open'. All other documentation is listed within the sub construction certificates.

THE FOLLOWING DOCUMENTS/RECORDS ARE SPECIFIC TO THESE WORKS		DO NOT DELETE "NOT APPLICABLE" ITEMS	Revision
	Document Title	Document Number	
6	OPERATION AND MAINTENANCE DELIVERABLE RECORDS		
	Deliverable O&M Records relevant to the Construction Certificate Package required by: Part 13 of the Works Information Volume 2B		
	Maintenance Records Plant & Equipment	Not Applicable	
	Operation & Maintenance Manuals		
	O&M Manual - Flood Protection Barriers System at Liverpool Street Station	C502 LAO K2 OMT12 C101 50016	2.0
	O&M Manual - Wall Cladding System and Window System at Liverpool Street Station	C502 LAO K2 OMT12 C101 50007	2.0
	O&M Manual - Roof System at Liverpool Street Station	C502 LAO K2 OMT12 C101 50009	3.0
	O&M Manual - Safety Protection System at Liverpool Street Station	C502 LAO K2 OMT12 C101 50010	1.0
	O&M Manual - Floor System at Liverpool Street Station	C502 LAO K2 OMT12 C101 50006	2.0
	O&M Manual - Non-Structural Walls at Liverpool Street Station	C502 LAO K2 OMT10 C101 50022	2.0
	O&M Manual - Suspended Ceiling System at Liverpool Street Station	C502 LAO K2 OMT12 C101 50012	1.0
	O&M Manual - Door System (Arch) at Liverpool Street Station	C502 LAO K2 OMT12 C101 50005	2.0
	O&M Manual - Access Gantries at Liverpool Street Station	C502 LAO K2 OMT12 C101 50001	1.0
	O&M Manual - Furniture System at Liverpool Street Station	C502 LAO K2 OMT03 C101 50004	2.0
O&M Manual - Sanitary Equipment System at Liverpool Street Station	C502 LAO K2 OMT12 C101 50008	1.0	
C08.079ar	A&M - C502 Liverpool Street Station Access and Maintenance Report	C502 LAO K2 RGN C101 50001	2.0
	Records of Modifications made to the Completed Infrastructure or Installed Equipment	Not Applicable	
	Records of Failures, Faults and Incidents	Not Applicable	
7	OUTSTANDING DOCUMENTATION & RECORDS		
	Documents or records that have not been submitted or accepted but do not prevent the sign off of the package. Add to Punchworks.		
	Hand over Punchwork / Defects Lists		
	O&M Manual - Flood Protection Barriers System at Liverpool Street Station	C502 LAO K2 OMT12 C101 50016	2.0
	O&M Manual - Wall Cladding System and Window System at Liverpool Street Station	C502 LAO K2 OMT12 C101 50007	2.0
	O&M Manual - Roof System at Liverpool Street Station	C502 LAO K2 OMT12 C101 50009	3.0
	O&M Manual - Safety Protection System at Liverpool Street Station	C502 LAO K2 OMT12 C101 50010	1.0
	O&M Manual - Floor System at Liverpool Street Station	C502 LAO K2 OMT12 C101 50006	2.0
	O&M Manual - Non-Structural Walls at Liverpool Street Station	C502 LAO K2 OMT10 C101 50022	2.0
	O&M Manual - Suspended Ceiling System at Liverpool Street Station	C502 LAO K2 OMT12 C101 50012	1.0
	O&M Manual - Door System (Arch) at Liverpool Street Station	C502 LAO K2 OMT12 C101 50005	2.0
	O&M Manual - Access Gantries at Liverpool Street Station	C502 LAO K2 OMT12 C101 50001	1.0
	O&M Manual - Furniture System at Liverpool Street Station	C502 LAO K2 OMT03 C101 50004	2.0
	O&M Manual - Sanitary Equipment System at Liverpool Street Station	C502 LAO K2 OMT12 C101 50008	1.0
C08.079ar	A&M - C502 Liverpool Street Station Access and Maintenance Report	C502 LAO K2 RGN C101 50001	2.0
	Liverpool Street Station - Element Outstanding Works List (EOWL)	C502 XRL C LST C101 50005	7.0
C08.079xy	Arup Fire Verification - Room Status Tracker	C502 LAO E1 LRG C101 50001	1.0
	Moorgate, General Arrangement, Site Plan of Street Level +0 (+113.70), CC502	C502 LAO A DDA C101 1 20301	P12
	Moorgate, General Arrangement, Plan at Street +1.5, +2, +3, CC502	C502 LAO A DDA C101 2 20301	P07
	Moorgate, General Arrangement, Section DD - Sheet 4 of 9, CC502	C502 LAO A DDB C101 2 20704	P05
	Moorgate, General Arrangement, Section GG - Sheet 7 of 9, CC502	C502 LAO A DDB C101 2 20707	P06
	Moorgate, General Arrangement, Section HH - Sheet 8 of 9, CC502	C502 LAO A DDB C101 2 20708	P07
	Moorgate, General Arrangement, Section JJ - Sheet 9 of 9, CC502	C502 LAO A DDB C101 2 20709	P06
	Moorgate Shaft, Blockwork Setting Out, Plan at Street Level +0 (+113.700) - 4 of 4, CC502	C502 LAO A DDD C101 1 22808	P08
	Station wide, Fire Plan, Street Level, CC502	C502 LAO A DDA C101 1 76801	P07
	GEN - Architectural - final inspection of all interfaces and under permanent lighting	C502 PWK 02696	N/A
	Liverpool Street Station Wide Firestopping Register	C502 PWK 02482	N/A
	O&M Manual to be CODE 1- C502-LAO-C-CER-C101_WS099-50182	C502 PWK 02669	N/A
	Kaiser-11A- CRL Final Inspection Snag Comments	C502 PWK 03373	N/A
	MTH - DMC Tiling - Unpaid Side - 14. Low grout depth - Occurred on 1 occasion	C502 PWK 03261	N/A
	MTH - DMC Tiling - Unpaid Side - 13. Movement joint stops before hatch - Occurred on 2 occasions - Reoccurs along the gate line	C502 NCR 002491	N/A
	Terrazzo Flooring / Tile Shading / Moorgate Ticket Hall	C502 NCR 002459	N/A
	C100/CRL Signage Graphics Audit	C502 PWK 03391	N/A
	Site Wide - Wood & Wood Signage - All Different Types of Signage - Installation proceeded without approved Benchmarks	C502 NCR 002338	N/A
	MTH - Col. Sign adhesive	C502 NCR 002576	N/A
non EOWL O&M	Operations and Maintenance Manual - PFU Description PFU-2-01101 - Fire Suppression System at Liverpool Street Station	C502 LAO K2 OMT03 C101 50008	5.0
	Moorgate Outstanding BOH paint works - Cousins	C502 PWK 02969	N/A
non EOWL QA PACK	Cancelled - C13.003anq - QA Pack - Moorgate - BOH - Floor and Wall Painting works completed post July 2019	C502 LAO C LRC C101_WS099 50524	1.0



CROSSRAIL CENTRAL SECTION
SUB*/CONSTRUCTION CERTIFICATE Part 2 of 2 or
PACKAGE LISTING

Contract Deliverable No.: C13.006qa SUB-CONSTRUCTION No.: C502 LAO C CER C101_WS099 50158 REV 2.0
 Part 2 of 2

Name and location of element of construction: Construction Completion Certificate Moorgate Architectural Works

Precise limits covered by this package (including temporary works left in place): All packages for the Architectural works on Liverpool Street Moorgate. This certificate only makes reference to Construction level documentation and any items identified in section 7 of the individual sub construction certificates that remain 'open'. All other documentation is listed within the sub construction certificates.

	THE FOLLOWING DOCUMENTS/RECORDS ARE SPECIFIC TO THESE WORKS	DO NOT DELETE 'NOT APPLICABLE' ITEMS	Revision
	Document Title	Document Number	
	Moorgate Shaft - Louvers - Kaicer 30a(Colt & Trox) - Access, Maintenance and Replacement	C502 PWK 03271	N/A
	PWK FFO PAD - Final inspection of paintwork for BBX & MSH, ESS1 & ESS2	C502 PWK 03003	N/A
non EOWL O&M	Operations and Maintenance Manual T7 – Manufacturer's Literature PFU-2-03186 - TRELLIDOR TROJAN III EMESC SR3 Moorgate Ticket Hall North Gate	C502 LAO K2 OMT09 C101 50017	1.0
non EOWL REPORT	C08.079 - Ticket Hall Entrance Gate Operation Review	C502 LAO E RGN C101 50152	1.0
non EOWL REPORT	MTH Trellidor Installation (North and South)	C502 XRL Q4 RGN C101 50029	1.0
non EOWL DWG	C08.076 - 87 Moorgate Electrical LV Schematic	C502 LAO E DWG C101 50055	X01
non EOWL CONCESSION	C08.082ar - Concession Request SP0806 Moorgate Ticket Hall Back of House PRM Doors Opening Forces	C502 LAO A QAP C101_WS099 50001	1.0
non EOWL REDLINE	C08.076 - General Arrangement Detail Door W-02-239-D02	C502 LAO A DWG C101 50490	X01
non EOWL REDLINE	C08.076 - General Arrangement Detail Door W-02-281-D01	C502 LAO A DWG C101 50495	X01
non EOWL REDLINE	C08.076 - General Arrangement Detail Door W-02-320-D01	C502 LAO A DWG C101 50499	X01
non EOWL REDLINE	C08.076 - General Arrangement Detail Door W-07-80-D01	C502 LAO A DWG C101 50637	X01
non EOWL REDLINE	C08.076 - General Arrangement Detail Door W-03-81-D01	C502 LAO A DWG C101 50614	X01
non EOWL REDLINE	C08.076 - General Arrangement Detail Door W-03-631-D02	C502 LAO A DWG C101 50610	X01
non EOWL REDLINE	C08.076 - General Arrangement Detail Door W-03-788-D01	C502 LAO A DWG C101 50613	X01
non EOWL REDLINE	C08.076 - General Arrangement Detail Door W-03-786-D01	C502 LAO A DWG C101 50612	X01
non EOWL REDLINE	C08.076 - General Arrangement Detail Door W-04-81-D01	C502 LAO A DWG C101 50624	X01
non EOWL REDLINE	C08.076 - General Arrangement Detail Door W-05-662-D01	C502 LAO A DWG C101 50627	X01
non EOWL REDLINE	C08.076 - General Arrangement Detail Door W-05-786-D01	C502 LAO A DWG C101 50629	X01
non EOWL REDLINE	C08.076 - General Arrangement Detail Door W-06-786-D01	C502 LAO A DWG C101 50633	X01
non EOWL REDLINE	C08.076 - General Arrangement Detail Door W-06-788-D01	C502 LAO A DWG C101 50634	X01
non EOWL REDLINE	C08.076 - General Arrangement Detail Door W-08-412-D01	C502 LAO A DWG C101 50644	X01
non EOWL REDLINE	C08.076 - General Arrangement Detail Door W-08-664-D01	C502 LAO A DWG C101 50648	X01
non EOWL REDLINE	C08.076 - General Arrangement Detail Door W-08-711-D02	C502 LAO A DWG C101 50651	X01
non EOWL REDLINE	C08.076 - General Arrangement Detail Door W-08-712-D01	C502 LAO A DWG C101 50652	X01
non EOWL REDLINE	C08.076 - General Arrangement Detail Door W-08-736-D01	C502 LAO A DWG C101 50654	X01
non EOWL REDLINE	C08.076 - General Arrangement Detail Door W-09-236-D01	C502 LAO A DWG C101 50660	X01
non EOWL REDLINE	C08.076 - General Arrangement Door W-09-631-D01	C502 LAO A DWG C101 50856	X01
non EOWL REDLINE	C08.076 - General Arrangement Detail Door W-09-785-D02	C502 LAO A DWG C101 50667	X01
non EOWL REDLINE	C08.076 - General Arrangement Detail Door W-09-786-D01	C502 LAO A DWG C101 50668	X01



CROSSRAIL CENTRAL SECTION SUB*/CONSTRUCTION CERTIFICATE Part 2 of 2 or PACKAGE LISTING

Contract Deliverable No.: C13.006qa SUB-CONSTRUCTION No.: C502 LAO C CER C101_WS099 50158 REV 2.0
Part 2 of 2

Name and location of element of construction: **Construction Completion Certificate Moorgate Architectural Works**

Precise limits covered by this package (including temporary works left in place): All packages for the Architectural works on Liverpool Street Moorgate. This certificate only makes reference to Construction level documentation and any items identified in section 7 of the individual sub construction certificates that remain 'open'. All other documentation is listed within the sub construction certificates.

	THE FOLLOWING DOCUMENTS/RECORDS ARE SPECIFIC TO THESE WORKS	DO NOT DELETE 'NOT APPLICABLE' ITEMS	Revision
	Document Title	Document Number	
	SCC 50118 - Arup Fire Site inspection	C502 PWK 03509	N/A
	SCC 50118 - Booth Doors Moorgate - outstanding Field View Snags	C502 PWK 03608	N/A
	Belmont Mild-steel Doors Remedials	C502 PWK 03588	N/A
	Omission of easy clean-dust free sockets from Door thresholds	C502 NCR 002561	N/A
non EOWL REDLINE	C08.076 - C502 Moorgate Location 01 Street Level (+113.700) - 01 Plant Accomodation - LFT IV Door Ref W-01-139-D01	C502 LAO A DWG C101_WS099 1 50005	X01
non EOWL REDLINE	C08.076 - C502 MOORGATE 01 STREET LEVEL +113.7 DOOR REF W-01-795-D01	C502 LAO A DWG C101_WS099 50778	X01
non EOWL REDLINE	C08.076 - C502 Moorgate Location 01 Street Level (+113.700) - 01 Plant Accomodation - TR A I Door Ref W-01-781-D01	C502 LAO A DWG C101_WS099 1 50010	X01
non EOWL REDLINE	C08.076 - C502 Moorgate Location 01 Street Level (+113.700) - 01 Plant Accomodation - TR B I Door Ref W-01-782-D01	C502 LAO A DWG C101_WS099 1 50011	X01
non EOWL REDLINE	C08.076 - C502 Moorgate Location 01 Street Level (+113.700) - 01 Plant Accomodation - MSR Door Ref W-01-786-D01	C502 LAO A DWG C101_WS099 1 50012	X01
non EOWL REDLINE	C08.076 - C502 Moorgate Location 02 Street Level -1 (+107.75) - 02 LU Staff Accomodation - LCC I Door Ref W-02-131-D01	C502 LAO A DWG C101_WS099 2 50004	X01
non EOWL REDLINE	C08.076 - C502 Moorgate Location 02 Street Level -1 (+107.75) - 02 LU Staff Accomodation - FER Door Ref W-02-760-D01	C502 LAO A DWG C101_WS099 2 50016	X01
non EOWL REDLINE	C08.076 - C502 Moorgate Location 02 Street Level -1 (+107.75) - 02 LU Staff Accomodation - FAN 1-A Door Ref W-02-776-D01	C502 LAO A DWG C101_WS099 2 50017	X01
non EOWL REDLINE	C08.076 - C502 Moorgate Location 02 Street Level -1 (+107.75) - 02 LU Staff Accomodation - FAN 1-A Door Ref W-02-776-D03	C502 LAO A DWG C101_WS099 2 50018	X01
non EOWL REDLINE	C08.076 - C502 Moorgate Location 02 Street Level -1 (+107.75) - 02 LU Staff Accomodation - MSC Door Ref W-02-785-D01	C502 LAO A DWG C101_WS099 2 50019	X01
non EOWL REDLINE	C08.076 - C502 Moorgate Location 03 Platform Level +4 (101.34) - Forced Vent Door Ref W-03-792-D02	C502 LAO A DWG C101_WS099 3 50009	X01
non EOWL REDLINE	C08.076 - C502 Moorgate Location 04 Platform Level +3 (97.040) - MSR Ref W-04-786-D01	C502 LAO A DWG C101_WS099 4 50005	X01
non EOWL REDLINE	C08.076 - C502 Moorgate Location 04 Platform Level +3 (97.040) - MSR Ref W-04-788-D01	C502 LAO A DWG C101_WS099 4 50006	X01
non EOWL REDLINE	C08.076 - C502 Moorgate Location 04 Platform Level +3 (97.040) - Forced Vent Shaft Ref W-04-792-D01	C502 LAO A DWG C101_WS099 4 50007	X01
non EOWL REDLINE	C08.076 - C502 Moorgate Location 05 Platform Level +2 Upper (92.675) - MSR Ref W-05-790-D01	C502 LAO A DWG C101_WS099 5 50006	X01
non EOWL REDLINE	C08.076 - C502 Moorgate Location 07 Platform Level +1 (+83.655) - Forced Vent Ref W-07-792-D02	C502 LAO A DWG C101_WS099 7 50008	X01
non EOWL REDLINE	C08.076 - C502 Moorgate Location 07 Platform Level +1 (+83.655) - CIR-S Ref W-07-81-D01	C502 LAO A DWG C101_WS099 7 50009	X01
non EOWL REDLINE	C08.076 - C502 Moorgate Location 07 Platform Level +1 (+83.655) - CIR-S Ref W-07-81-D02	C502 LAO A DWG C101_WS099 7 50010	X01
non EOWL REDLINE	C08.076 - C502 Moorgate Location 08 Platform Level (+78.300) Moorgate Shaft - CIR-PL Ref W-08-239-D01	C502 LAO A DWG C101_WS099 8 50015	X01
non EOWL REDLINE	C08.076 - C502 Moorgate Location 09 Sub Platform Level (+74.200) - SSR 1 Ref W-09-669-D02	C502 LAO A DWG C101_WS099 9 50003	X01
non EOWL REDLINE	C08.076 - C502 Moorgate Location 09 Sub Platform Level (+74.200) - Services Transfer Area Ref W-09-785-D01	C502 LAO A DWG C101_WS099 9 50004	X01
non EOWL REDLINE	C08.076 - C502 Moorgate Location 09 Sub Platform Level (+74.200) - Forced Vent Ref W-09-792-D01	C502 LAO A DWG C101_WS099 9 50005	X01
non EOWL REDLINE	C08.076 - C502 Moorgate 09 Sub Platform Level (+74.2) Door Ref W-09-798-D01	C502 LAO A DWG C101_9 50021	X01
	14003_MTH_04a_Outstanding Works identified on Final Inspection	C502 PWK 03630	N/A
	Kaicer_04a_MTH_External Elevation Final Inspection Snags/Comments	C502 PWK 03631	N/A
	Kaicer_04a_Scope EWS-911 White Portland Stone Cladding & EWS-560 Stainless Steel Copings	C502 PWK 03633	N/A
non EOWL REPAIR/CLEANING METHODOLOGY	C13.009h - C502 - Repair and Cleaning Methodology for Portland Stone Report	C502 LAO O4 RGN C101 50198	1.0



**CROSSRAIL CENTRAL SECTION
SUB*/CONSTRUCTION CERTIFICATE Part 2 of 2 or
PACKAGE LISTING**

Contract Deliverable No.: C13.006qa SUB-CONSTRUCTION No.: C502 LAO C CER C101_WS099 50158 REV 2.0
Part 2 of 2

Name and location of element of construction: Construction Completion Certificate Moorgate Architectural Works

Precise limits covered by this package (including temporary works left in place): All packages for the Architectural works on Liverpool Street Moorgate. This certificate only makes reference to Construction level documentation and any items identified in section 7 of the individual sub construction certificates that remain 'open'. All other documentation is listed within the sub construction certificates.

	THE FOLLOWING DOCUMENTS/RECORDS ARE SPECIFIC TO THESE WORKS	DO NOT DELETE 'NOT APPLICABLE' ITEMS	Revision
	Document Title	Document Number	
non EOWL O&M	C19.002bi - Operation and Maintenance Manual for Cladding Demountability Sequencing	C502 LAO K2 GML C101 50046	1.0
	MTH - Matwell - Minor Snags	C502 PWK 03647	N/A
	MTH - SL-1 - Floor plate to balustrade base	C502 NCR 002605	N/A
	MTH - Floor Tiling - Minor Snags (SCC Rev 2.0)	C502 PWK 03671	N/A
	MTH - Cleaning of AAR2 Floor/Steps	C502 PWK 03675	N/A
	MTH - Skirting to be installed Westbound Stair fire hoarding location	C502 PWK 03676	N/A
	MTH - Matwell - Minor Snags	C502 PWK 03647	N/A
	MTH - SL-1 - Met Line Platform paving reinstatement below LU fire point	C502 PWK 03678	N/A
	MTH - SL-1 - Met Line Platform replacement of 3 no. small cut paving slabs	C502 PWK 03679	N/A
	MTH - SL-1 - Eastbound Met Line Platform adjustment of paving levels upon removal of fire hoarding	C502 PWK 03680	N/A
	MTH - Lack of approved documentation for LU interface Floor Infill	C502 NCR 002601	N/A
	MTH - SL-1 - Floor plate to balustrade base	C502 NCR 002605	N/A
	MTH - In-situ Skirting	C502 NCR 002612	N/A
	Moorgate Ticket Hall, Level -1, Flooring (LU/CRL interfacing works)	CRL OBS 35073	1.0
	Moorgate Ticket Hall - Flooring Review - Ground and Level -1 Public Areas including Westbound Stair	CRL OBS 35080	1.0

BELOW: any additional OPEN EOWLS as at 23/04/2021 (as per latest CRL eB data / LOR Master EOWL Tracker)

Contractor Commenced works without an accepted ITP relevant to works undertaken	C502 NCR 002615	N/A
MTH - Finishes Street Level & PRM Corridor - Benchmark and Quality Records	C502 NCR 002616	N/A
Proof Load testing has not been carried out as required in Architectural Specification	C502 NCR 002623	N/A
Contractor has not followed their Document and Data Control Procedure for the checking of Red Line Drawings.	C502 NCR 002624	N/A
Teckentrup Fixing Calculations	C502 PWK 03039	N/A
Miscellaneous QA Packages update for further works added Locations BTH, MTH, Platforms and Tunnels and BBX	C502 PWK 03222	N/A
SCC-50182_Arup-Fire Outstanding Sample Inspection	C502 PWK 03443	N/A
Kaicer_00A_MTH Overclad Doors_ Booth remedial work/outstanding/snags	C502 PWK 03484	N/A
Doors included in withdrawn concession C502-LAO-A-QAP-C101_WS099-50001 (PRM Door Opening Forces)	C502 PWK 03662	N/A
Moorgate TH - ES5 Anti-Fall Fin	C502 PWK 03681	N/A
Kaicer Glass Clad doors Engraved Escutcheons	C502 PWK 03701	N/A
LIS - Overclad doors	CRL OBS 30716	N/A
LIS - Temporary hoarding in lieu of Rivington Doors E-01-793-D01 and W-04-139-D01	CRL OBS 32986	N/A
CEG MEP VAP - LIS - 1 Fire Stopping Register	CRL OBS 34157	N/A



CROSSRAIL CENTRAL SECTION
SUB*/CONSTRUCTION CERTIFICATE Part 2 of 2 or
PACKAGE LISTING

Contract Deliverable No.: C13.006qa

SUB-CONSTRUCTION No.: C502 LAO C CER C101_WS099 50158 REV 2.0
 Part 2 of 2

Name and location of element of construction: **Construction Completion Certificate Moorgate Architectural Works**

Precise limits covered by this package (including temporary works left in place): All packages for the Architectural works on Liverpool Street Moorgate. This certificate only makes reference to Construction level documentation and any items identified in section 7 of the individual sub construction certificates that remain 'open'. All other documentation is listed within the sub construction certificates.

THE FOLLOWING DOCUMENTS/RECORDS ARE SPECIFIC TO THESE WORKS		DO NOT DELETE 'NOT APPLICABLE' ITEMS	Revision
Document Title	Document Number		
CEG MEP VAP - LIS - 4 Temporary Services removal	CRL OBS 34160		N/A
Moorgate Ticket Hall - Trellidor Gate Installation (South)	CRL OBS 34817		N/A
Moorgate Ticket Hall - Platform/Platform +1 Levels - Booth Escape Doors	CRL OBS 35094		N/A
LIS - Observations on Architectural drawings	CRL OBS 35154		N/A
The provision and installation of bins in the public areas	CRL OBS 35221		N/A
Liverpool Street station, Construction Certificates	CRL OBS 35266		N/A
Liverpool Street Station Signage Installation Audit	CRL OBS 35305		N/A
Moorgate Ticket Hall - Level -1 - Balustrade and LU Interface Works	CRL OBS 35316		N/A
LIS - Removal of disclaimer from asbuilt drawings	CRL OBS 35317		N/A

Learning Legacy Document



CROSSRAIL CENTRAL SECTION
SUB*CONSTRUCTION CERTIFICATE Part 2 of 2 or
PACKAGE LISTING

Contract Deliverable No.: C13.046qa SUB-CONSTRUCTION No.: C502-LAOC-CER-C101_WS199-50158 REV 2.0
 Part 2 of 2

Name and location of element of construction: Construction Completion Certificate - Moorgate - Architectural Works

Precise limits covered by this package (including temporary works left in place): All packages for the Architectural works on Liverpool Street - Moorgate. This certificate only makes reference to Construction level documentation and any items identified in section 7 of the individual sub construction certificates that remain 'open'. All other documentation is listed within the sub construction certificates.

THE FOLLOWING DOCUMENTS/RECORDS ARE SPECIFIC TO THESE WORKS

DO NOT DELETE "NOT APPLICABLE" ITEMS

Document Title

Document Number

Revision

CONTRACTOR STATEMENT

The documents listed in this Package Listing are the Records and Record Drawings relating to the element of construction or installation described above.

I / We certify that the Records and Record Drawings listed above in this Package exist and have been input into, and are accessible via, the Project EDMS. All Contractor documents have been checked to assure that a relevant and competent Contractor employee or sub-contractor employee has signed each document, in accordance with our Competency Management Plan

Signed Certificate Package Prepared by:

Signed Checked by:

Name:

Name:

Signed Contractor Quality Manager:

Name:

Date: 27/04/2021

Supervisor's Statement

I accept that this Package Listing has been populated and the Contractor Review Statement above is signed by a Competent Individual in accordance with the Contractor's Competency Management Plan, and Outstanding Works / Defects have been identified in accordance with the Punchwork References as noted in Section 7 above [strikeout and note NOT APPLICABLE if necessary]

Signed CRL First Reviewer:

Name:

Date: 21/05/2021

Signed PFE / Supervisor's Representative:

Name: