SECTION 4

CONTRACT DATA PART 1

MAIN OPTION C CONTRACT DATA PART 1

CONTRACT DATA

Part One - Data provided by the Employer

Statements given

in all contracts

1. General •

The *conditions of contract* are the core clauses and the clauses for main Option C and secondary Options clauses **X1**, **X2**, **X4**, **X5**, **X7**, **X15**, **X16**, **X18**, **X20**, **X21**, **X23**, **X25** and Y(UK)2 and Z clauses of the NEC3 Engineering and Construction Contract June 2005 (incorporating amendments June 2006 and September 2011) as amended or inserted in each case in accordance with secondary Option Z.

- The *works* are the Bank Station capacity upgrade project, the requirements of which are summarised in section WI 100 of the Works Information and set out in further detail in the Works Information as a whole.
- The *Employer* is

Name: London Underground Limited

Address: 55 Broadway, London SW1H 0BD

• The *Project Manager* is

Name: Simon Addyman

Address: 84, Eccleston Square, London SW1V 1PX

• The Supervisor is

Name: Simon Addyman

Address: 84, Eccleston Square, London SW1V 1PX

• The Works Information is in Section 7.

	•	The Site information is in Section 9.		
	•	The <i>boundaries of the site</i> are defined in the Site Information section SI 100 Site Location.		
	•	The language of this contract is English.		
	•	The <i>law of the contract</i> is the law of England and Wales.		
	•	The <i>period for reply</i> is 3 weeks.		
3. Time	•	The starting date is: 1 August 2013.		
	•	The access dates are as follows:		
		• surveys 18 th November 2013		
		• survey access 17 th February 2014		
		• Worksite 20 th April 2016		
		• Worksite 20 th April 2016		
	•	The <i>Contractor</i> submits revised programmes at intervals no longer than 4 weeks.		
4. Testing and Defects	•	The <i>defects date</i> is 52 weeks after Completion of the whole of the <i>works</i> .		
	•	The defect correction period is 4 weeks.		
5. Payment	•	The <i>currency of this contract</i> is pounds sterling.		
	•	The assessment interval is 4 weeks.		
	•	The <i>interest rate</i> is 2 % per annum above the base rate of the Bank of England.		
6. Compensation events	•	The place where weather is to be recorded is Central London.		
	•	The weather measurements to be recorded for each calendar month are		

The Site Information is in Section 9.

- o the cumulative rainfall (mm)
- o the number of days with rainfall more than 5 mm
- o the number of days with minimum air temperature less than 0 degrees Celsius
- o the number of days with snow lying at 09:00 hours GMT.
- The *weather measurements* are supplied by The Met Office, Fitzroy Street, Exeter EX1 3PB.
- The *weather data* are the records of past *weather measurements* for each calendar month which were recorded at Central London and which are available from the Met Office.
- The Geotechnical Baseline Conditions LUSTN-0008798-RPT-002364 version 0.2 issued 23 October 2012 is in the Site Information section SI 200.10.

8. Risks and insurance

Insurances taken out by the Employer

- Construction All Risks Insurance details and minimum limit of indemnity as set out in the Insurance Table in clause 84.2 of the consolidated conditions of contract.
- Public liability insurance details and minimum limit of indemnity
 as set out in the Insurance Table in clause 84.2 of the consolidated
 conditions of contract.
- Non-negligence insurance details and minimum limit of indemnity
 as set out in the Insurance Table in clause 84.2 of the consolidated
 conditions of contract.

Insurances taken out by the Contractor

• *Employer's* **liability insurance** - details as set out in the Insurance

Table in clause 84.2 of the consolidated conditions of contract with a

minimum limit of indemnity in the amount of per occurrence.

- Contractor's equipment loss insurance details and minimum limit of indemnity as set out in the Insurance Table in clause 84.2 of the consolidated conditions of contract.
- **Professional indemnity insurance -** details as set out in the Insurance Table in clause 84.2 of the consolidated conditions of contract with a minimum limit of indemnity in the amount of per occurrence.

Optional statements

If the *Employer* has decided the *completion date* for the whole of the *works*

• The *completion date* for the whole of the *works* is 27 July 2021.

If the *Employer* has identified work which is to meet a stated condition by a key date

• The *key dates* and *conditions* to be met are

condition to be met

Completion of concept design to LUL 30th May 2014
 Standard S1538.

key date

Completion of compliance design to LUL 23rd February 2016
 Standard S1538.

3. Contractor provides the support required 22nd July 2014 under this contract in relation to the submission of the TWAO application by LUL.

If Y(UK)2 is used and the final date for payment is not 14 days

after the date when payment is due

 The period for payment is 28 days after the date when payment becomes due in accordance with clause 51.1A of the conditions of contract.

If there are additional *Employer's* risks

- These are the additional *Employer's* risks:
- 1. A Transport and Works Act Order being made.
- 2. Risks identified as Employer's risks in the Risk Register in Appendix 5 of Contract Data Part 2.

Cover/deductibles for insurances provided by the Employer

Construction All Risks Insurance (as stated in the Insurance Table)

Cover/indemnity is: the full reinstatement value of the works

The deductibles are:

1

- per occurrence for loss or damage to the *works* caused by defects in design plan specification materials or workmanship (DE5 1995). Such deductible shall only apply in respect of reinstatement or making good of that part which is itself defective;
- per occurrence in respect of loss or damage to the works caused by defect in design plan specification materials or workmanship (DE3 1995);
- per occurrence in respect of loss or damage caused by storm, tempest, water damage, subsidence or collapse;
- every other occurrence.

2 **Public liability insurance** (as stated in the Insurance Table)

Cover/indemnity is not less than million per occurrence.

The deductibles are: per occurrence.

3 **Non-negligence Insurance** (as stated in the Insurance Table)

Cover/indemnity is million per occurrence.

If there are additional termination events:

• These are the *additional termination events*.

1. If a Stage 2 Works Non-Commencement Notice is issued by the Employer.

• The *Contractor's share percentages* and the *share ranges* are:

share range

Contractor's share percentage

less than 97.50% 97.50% to 102.50 % more than 102.50%



- The *share termination threshold* is
- The Contractor prepares forecasts of Defined Cost for the *works* at intervals no longer than 4 weeks.

If Option X1 is used

- The proportions used to calculate the Price Adjustment Factor are:
 - 0.50 linked to the index for Labour Series 1161.
 - 0.30 linked to the index for General Civil Engineering Cost Series 1191.
 - 0.20 linked to the index for M&E Costs Series 1151.

Total 1.00

- The base date for indices is August 2013.
- The indices are those prepared by BCIS.

If Option X5 is used

• The *completion date* for each *section* of the *works* is:

section description completion date 13th August 2020. 1 Completion of: the New Southbound Running Tunnel and platform, the Central Line link with moving walkway and triple escalator, DLR triple escalator, Cross Passage CP1, 2 and 4, the Northern Line Concourse, New Adit and Column removal in the existing Northbound platform.

If Option X7 is used

• Delay damages for Completion of the whole of the *works* are per day or part thereof. No delay damages shall be payable in respect of a period of 6 months from the *completion date*.

If Option X16 is used

- The retention free amount is million.
- The retention percentage is %.

If Option X18 is used

Without prejudice to the *Contractor's* liability for Defects, the *Contractor* shall have no liability to the *Employer* for indirect, economic or consequential loss arising out of any breach of the Contractor's obligations under this contract save insofar as the same arise out of any excluded matters listed in Option X 18.4.

- For any one event, the *Contractor's* liability to the *Employer* for loss of or damage to the *Employer's* property is unlimited.
- The *Contractor's* liability for Defects due to his design which are not listed on the Defects Certificate is unlimited.
- The *Contractor's* total liability to the *Employer* for all matters arising under or in connection with this contract, other than Defects and excluded matters listed in Option X18.4 is limited to of the Prices.
- The *Contractor's* total liability to the *Employer* under Option X7 is

Option Z

• The *additional conditions of contract* are the amendments to core, main and secondary option clauses and additional conditions of contract incorporated in the consolidated conditions of contract and included in section 4 of the contract documents.

SECTION 8

CONTRACT DATA PART 2

MAIN OPTION C CONTRACT DATA PART 2

CONTRACT DATA

Part Two - Data provided by the Contractor for the Works

The Contractor is

Name: Dragados SA

Regina House,

Address: 2nd Floor,

1-5 Queen Street London EC4N 1SW

The fee amount in relation to Stage 1 Works is as follows and becomes due on completion of each activity as set out below:

> The fixed price for Stage 1 Works profit including all head office overhead, management fees, etc. for completing concept design to LUL Standard S1538 is

> The fixed price for Stage 1 Works profit including all head office overhead, management fees, etc. for completing compliance design to LUL Standard S1538 is

> The fixed price for Stage 1 Works profit including all head office overhead, management fees, etc. for submission of the TWAO application by LUL is

The fee amount in relation to Stage 2 Works is



With individual amounts for each activity set out in the Activity Schedule and becoming due on completion of each activity as set out in the Activity Schedule.

The fee percentage in relation to compensation events is

The working areas¹ are the Site including

1PX

locations identified within Site Information section SI100 Site Location, 84 Eccleston Square SW1V

site compound areas, temporary lay down area, temporary stockpile areas, off-site disposal areas, batching plant areas, temporary workshops, areas for steel fabrication.

The Contractor's Representative is Name: Regina House Address: 2nd Floor 1-5 Queen Street London EC4N 1SW Telephone Number The key people are 1. Name Job Project Director *Handover period* 6 months Responsibilities Project Leader Qualifications Experience 2. Name Job Project Manager Handover period 6 months Responsibilities Project Delivery and Controls Qualifications Experience 3. Name Job Design Manager Handover period 6 Months Responsibilities Design & TWAO Submission Support Management Qualifications

Experience

4.	Name
	Job Project Manager
	Handover period 6 Months
	Responsibilities Project Delivery and Controls
	Qualifications
	Experience
5.	Name TBC
	Job Principal Tunnel Engineer
	Handover period 6 Months
	Responsibilities Lead designer for tunnelling
	Qualifications
	Experience
	Experience
6.	Name TBC
	Job Principal Civils Engineer
	Handover period 6 Months
	Responsibilities Lead designer for structural and civil engineering
	Qualifications Relevant experience and degree/masters degree/Chartered status ICE, or equivalent
	Experience 15 years +
	The following matters will be included in the Risk Register:
	As detailed in the Risk Register in Appendix 5 of Contract Data Part 2
nal	

Optional

Statements

The Works Information for the *Contractor's* design is in the Works Information WI 2400.

If a programme is to be identified in the Contract Data

• The programme identified in the Contract Data is in Appendix 6 of Contract Data Part 2.

If the *Contractor* is to decide the *completion date* for the whole of the works

• The *completion date* for the whole of the *works* is 27th July 2021.

The activity schedule is: in Appendix 6.1 of Contract Data Part 2.

The Quantified Activity Breakdown (QAB) is included in Appendix 6.2 of Contract Data Part 2 which is referred to in the Works Information, in particular WI 100.

The Business Case Assistant (BCA) and BCA Assumptions Template is included in Appendix 6.3 of Contract Data Part 2 which is referred to in the Works Information, in particular WI 100.

The Passenger Modelling is included in Appendix 6.4 of Contract Data Part 2 which is referred to in the Works Information, in particular WI100.

The Risk Register is included in Appendix 6.5 of Contract Data Part 2. which is referred to in the Works Information, in particular WI100.

The tendered total of the Prices is

If Option X13 is used and states that the need for a performance bond is dependant on a Dun & Bradstreet credit rating

The parent company² of the Contractor is

ACS, Actividade de Construccion y Servicios, S.A.

Data for Schedule of Cost Components

• The listed items of Equipment purchased to work on this contract, with an on cost charge, are

Equipment	time-related charge	per time period
Tunnel Excavator –		per Week
Tunnel Excavator Type		Per Week
SCL Robot Putzmeister		per Week
SCL Robot Meyco Oruga		per Week
SCL Concrete Pump		Per Week
Dumper Heavy Duty		per Week
Mixer COC Huron -5		per Week
Scissor Lift SL33		Per Week
Flatbed truck CP30		per Week

• The rates for special Equipment are

Equipment	size or capacity	purchase rate
Tower Crane	CTL400	
32t Gantry Crane	GH CRANE	
24t Gantry	GH Crane	
55t Crawler	55t (per week)	

• The percentage for Working Areas overheads is

•	The hourly rates for Defin	ned Cost of manufacture and fabrication outside the Working Areas are
	category of employee	hourly rate
	Skilled	
	Semi-Skilled	
	Unskilled	
•	The percentage for ma	anufacture and fabrication overheads is
	Data for both schedules	of cost components
•	The hourly rates for Defin	ned Cost of design outside the Working Areas are
	category of employee	hourly rate
	Director	
	Technical Director	
	Principal Engineer	
	Senior Engineer	
	Engineer	
	Senior Assistant Engineer	
	Graduate Engineer	
	Senior Technician	
•	The percentage for design ov	verhead is

	e categories of design emp luded as a cost of design o				
	The percentage for direct management, commercial overheads applicable to	al management, planr	ner, health and sa		
	No other allowances for applied.	direct site staff and s	ite overheads for	compensation eve	ents may be
Data for t	he Shorter Schedule of C	osts Components			
•	The percentage for people	overheads is	%		
•	The published list of Ed	quipment is the last ed	dition of the list p	oublished by	CECA
•	The percentage for adjust or minus)	tment for Equipment	in the published	list is	% (state plus
•	The rates for other Equip	oment are			
	Equipment	size or capacity		rate	
1.	As required				

2.

Appendix 6.1 Activity Schedule



E Code	Elemental	Combined Elemental Total
108.100	General Management & Supervision	
108.105	Design	
108.115	Risk & Contingency	
108.120	Preliminaries	
108.200	Possession Management	
108.210	Protection Management	
108.220	Fleet	
108.230	Construction	
108.24	Associated works - Signalling works	
108.25	Associated works - Power works	
108.26	Associated works - Conductor Rail works	
108.270	Associated works - Drainage works	
201.100	General Management & Supervision	
201.105	Design	
201.110	Possession Management	
201.115	Contractor Preliminaries	
201.120	Risk & Contingency	
201.200	Enabling & Temporary Works (incl. Utilities)	
201.210	Tunnels & Shafts	
201.220	Station Box	
201.230	Ticket Hall	
201.240	Concourse	
201.250	Circulation Areas / Passages	
201.255	Operations Rooms	
201.256	Staff Facilities/Rooms	
201.257	Other Rooms/Areas	
201.260	Platform	
201.200	I Iduoliii	

E Code	Elemental		Combined Elemental Total
201.270	Station Signage		
201.300	Lifts & Escalators		
204 400	Fore Collection		
201.400	Fare Collection		
201.500	Fire, Mechanical & Services		
201.510	Electrical (AC Only)		
201.520	Communications		
201.600	Drainage (External)		
201.000	Dialilage (External)		
201.610	External Works		
_			
502.100	ATC Resignalling		
	TOTALS		



SCE Code	Standard Cost Element	Activity Schedule Prices SCE Level
108.100.100	Project & Commercial	
108.100.105	Safety	
108.105.100	Track Layout & Geometry Design	
108.105.105	As installed drawings	
108.105.110	Final scoping track walk pre-possession	
108.105.115	CCTV survey and report	
108.105.120	Pre-possession survey	
108.105.125	As built drawings and handover documents	
108.115.100	Project rick	
108.115.105	Project risk Programme risk	
108.115.110	Estimating uncertainty / Contingency	
	, , ,	
108.120.100	Staff (Construction)	
108.120.105	Materials Handling Plant	
108.120.110	Craneage	
108.120.115 108.120.120	Passenger/Goods Hoists General Plant	
108.120.125	Small Plant & PPE	
108.120.130	Scaffolding	
108.120.135	Temporary works/Access/Haul Roads	
108.120.140	Temporary Services	
108.120.145 108.120.150	Environmental Control Waste Management & Disposal	
108.120.155	Logistics	
108.120.160	Setting Out Control	
108.120.165	Site Hoardings / Barriers	
108.120.170	Security & Access Control	
108.120.175 108.120.180	Site Storage Temporary Accommodation	
108.120.185	Facilities Management	
108.120.190	Communications	
108.120.195	Temporary Signs	
108.120.200	IT Equipment & running costs	
100 200 100	Dro possession meeting	
108.200.100 108.200.105	Pre-possession meeting Possession briefings	
108.200.110	Possession site supervision	
108.200.115	Post possession reviews	
108.210.100	Staff	
108.210.105	Equipment	
108.220.100	Rail delivery	
108.220.105	Ballast delivery	
108.220.110	Removal of waste material	
108.220.115	Road railers	
108.220.120	Rail & Sleeper delivery train	
108.220.125	Tampers	
108.230.115	Extra cost for check / slave rail	
108.230.110	Forged transition rails	
108.230.125	Install outstanding track components I.e. greasers	
108.230.130	Installation of asset tags and microchips	
108.230.137	Reinforced concrete invert	



SCE Code	Standard Cost Element	Activity Schedule Prices SCE Level
108.230.140	Sleepers (resilience or Plain)	
108.230.145	New flat bottom running rail	
108.230.146	Ditto curved	
108.230.150	Rail drop	
108.230.155	Rail stressing	
108.230.160	Re tamp including tidying up ballast (Where new connections occur)	
108.230.165	Remove existing sleepers	
108.230.170	Remove running rail	
108.230.175	Snagging track walk	
108.230.180	Stressing rails	
108.230.195		
	Track walk and marking up site	
108.230.215	Additional work in working adjacent to / through platforms	
108.230.220	Demobilise possession (Blockade) site	
108.230.225	Mobilise Possession (Blockade) site	
108.230.230	Other follow up works	
108.230.235	Other possession (Blockade) works	
108.230.240	Other preparation work i.e. letter-drops and craneage of plant	
108.230.245	Pre-possession (Blockade) advanced works	
108.230.275	Permanent expansion switches	
108.230.285	Work in connection with joining existing running rails	
100.200.200	Work in connection with Johning existing running runo	
100 240 100	Disconnect remaya radyadant cabling	
108.240.100	Disconnect remove redundant cabling	
108.240.105	New cabling and jumper cables allowed in Section 500	
108.240.110	Working around cables crossing trackbed allowed in Section 500	
108.250.100	Disconnect remove redundant cabling	
108.250.105	New cabling and jumper cables allowed in Section 500	
108.250.110	Working around cables crossing trackbed allowed in Section 500	
108.260.100	Create conductor rail gaps	
108.260.105	Conductor rail	
108.260.107	Ditto Curved	
108.260.115	Remove conductor rail	
108.260.120	Work in connection with joining existing conductor rails	
100.200.120	Work in connection with joining existing conductor rails	
400 070 400	Tarak dasinana installation	
108.270.100	Track drainage installation	
108.270.105	New catchpits	
108.270.115	Benching catchpits	
108.270.120	Installation of asset tags and microchips	
108.270.125	Sumps/Pumps	
108.270.128	Connection to existing track tunnel drainage system	
201.100.100	Project & Commercial	
201.100.105	Safety	
201.100.110	Engineering	
201.100.115	Safety	
201.100.110		
201.105.000	Design Management	
201.105.100	TWA/Planning Consents	
201.105.105	Surveys and reports	
201.105.110	Structural design	
201.105.115	Architectural Design	
201.105.120 201.105.125	Mechanical & Electrical Design Environmental Design	
201.105.125	Fire & Safety Design	
201.105.131	Hard Landscaping	
201.105.135	Railway systems design	
201.105.136	Utilities Management	
201.105.137	Geotechnical Services	
201.105.138	Tunnelling Design	
201.105.139 201.105.140	Pedestrian Modelling & Transport Planning As built/installed drawings	
201.100.140	p to samplification drawings	



SCE Code	Standard Cost Element	Activity Schedule Prices SCE Level
201.105.145	Handover documents	
004 440 400	D	
	Pre-possession meeting Possession briefings	
	Possession site supervision	
201.110.115	Post possession reviews	
201.115.100	Staff	
201.115.105	Materials Handling Plant	
201.115.110	Craneage	
201.115.115	Passenger/Goods Hoists	
201.115.120 201.115.125	General Plant Small Plant & PPE	
201.115.130	Scaffolding	
201.115.135	Temporary Works/ Access/Haul Roads	
201.115.140 201.115.145	Temporary Services Environmental Control	
	Waste Management	
201.115.155	Logistics	
201.115.160	Setting Out Control	
201.115.165	Site Hoardings / Barriers Security & Access Control	
201.115.175		
	Temporary Accommodation	
	Facilities Management Communications	
	Temporary Signs	
201.115.205	IT Equipment & running costs	
201.115.210	Other (Including Insurance)	
201.120.100	Project risk	
201.120.110	Estimating uncertainty	
201.200.100	Mobilise Site Demolition	
201.200.103	Clear Site	
201.200.115	Services Diversions	
201.200.120	Dewatering	
201.200.125	Grouting Other (including utilities)	
	, and the same of	
	Running Tunnel	
	Tunnel Crossover Tunnel Shaft	
	Tunnel Adit	
201.210.120	Station Platform Tunnel	
201.210.125 201.210.130	Station Area Station Shaft	
201.210.135	Subway	
201.210.140	Single Escalator Shaft	
201.210.145	Double Escalator Shaft	
201.210.150 201.210.155	Triple Escalator Shaft Quadruple Escalator Shaft	
201.210.160	Refuge	
201.210.165	Lift Shaft	
201.220.100	Substructures	
201.220.100	Frame	
201.220.110	Upper Floors	
201.220.115	Roof	
201.220.120 201.220.125	Stairs External Walls	
201.220.130	Windows and External doors	
201.220.135	Surface finishes	
201.220.140 201.220.145	Fixture and Fittings	
201.220.145	External Works Mechanical & Electrical works	
201.220.155	Communications systems	
004.000	W. L. O.S. C. L.D.	
201.230.130 201.230.135	Windows & External Doors Internal Walls and Partitions	
201.230.140	Internal Doors	
201.230.145	Wall Finishes	



SCE Code	Standard Cost Element	Activity Schedule Prices SCE Level
201.230.150	Floor Finishes	
201.230.155	Ceiling Finishes	
201.230.160	Fittings and Furnishings	
201.230.165	Mechanical & Electrical works	
201.240.135	Internal Walls and Partitions	
201.240.140	Internal Doors Wall Finishes	
	Floor Finishes	
201.240.155	Ceiling Finishes	
201.240.160	Fittings and Furnishings	
201.240.165	Mechanical & Electrical works	
	External Walls	
	Windows & External Doors	
	Internal Doors Wall Finishes	
201.250.145		
201.250.150		
201.250.160	Fittings and Furnishings	
201.255.130	Windows & External Doors	
201.255.135	Internal Walls and Partitions	
	Internal Doors	
201.255.145	Wall Finishes	
201.255.150 201.255.155	Floor Finishes Ceiling Finishes	
201.255.160	Fittings and Furnishings	
201.255.165	Mechanical & Electrical works	
201.256.130	Windows & External Doors	
201.256.135	Internal Walls and Partitions	
201.256.140	Internal Doors	
201.256.145	Wall Finishes Floor Finishes	
	Ceiling Finishes	
201.256.160		
201.255.165	Mechanical & Electrical works	
201.257.130	Windows & External Doors	
201.257.135	Internal Walls and Partitions	
201.257.140	Internal Doors	
201.257.145	Wall Finishes Floor Finishes	
201.257.150 201.257.155	Ceiling Finishes	
201.257.160	Fittings and Furnishings	
201.257.165	Mechanical & Electrical works	
201.260.100	Substructure	
201.260.105	Frame	
201.260.110	Decking Poteil	
201.260.120 201.260.135	Edging Detail Internal Walls and Partitions	
201.260.135	Internal Doors	
201.260.145	Wall Finishes	
201.260.150	Floor Finishes	
201.260.155	Ceiling Finishes	
201.260.160	Fittings and Furnishings	
201.270.100	Station Signage Non-Illuminated	
201.270.105	Whiteboard Destar Frame	
201.270.110 201.270.115	Poster Frame Advertising Panel / Notice Board	
201.270.115	Station Signage Non-Illuminated	
201.270.105	Whiteboard	
201.270.110	Poster Frame	
201.270.115	Advertising Panel / Notice Board	
201.300.100	Escalator System	
201.300.105	Passenger Conveyor	
201.300.110	Passenger Lifting Platform	



SCE Code	Standard Cost Element	Activity Schedule Prices SCE Level
201.300.115	Hydraulic Lift	
201.300.120	Traction Lift	
201.300.125	Plant & Equipment	
201.400.105	Passenger Operated Machines	
201.400.110	Staff Operated Machines Ticketing Gates	
201.400.113	Non-Ticketing Gates	
201.400.125	Station Computer	
201.400.130	Other Equipment	
201.400.135	Ticket Office Equipment	
004 500 400	Out Alexandra de la companya del companya de la companya del companya de la compa	
201.500.100	Split Airconditioning VRF/VRV	
201.500.105	Chilled Water	
201.500.115	Tunnel Ventilation	
	Water Services	
201.500.125	Gas Services	
201.500.130	Oil Services	
201.500.135	Fire Detection	
201.500.140 201.500.145	Passive Fire System Suppression Fire System	
201.500.143	Fire Extinguishing Equipment	
201.500.155	Sanitary Appliances	
201.500.160	Disposal Installations	
201.500.165	Testing & Commissioning	
201.500.170	BWIC	
201.510.100	LU Supplied-Main Distrbtn	
201.510.100	LU Supplied-Main Distribtn	
201.510.110	REC Supplied-Main Distribtn	
201.510.115	Emergency Supply	
201.510.120	Tunnel Lighting	
201.510.125	REC Supplied-Local Distrbtn	
201.510.130 201.510.135	Public Sys Lighting Services LVAC Power Services	
201.510.135	Non Public Sys Lighting	
201.510.145	Control	
201.510.150	Appliances	
201.510.155	External Services - Tenant Supplies	
201.510.160	Illuminated Station Signage	
201 520 100	CCTV Systems	
201.520.100	PA Systems	
201.520.110	Security Systems	
201.520.115	Op Information Systems	
201.520.120	Telecommunications	
201.520.125	Station Management System	
201.520.130 201.520.135	Service Control System Platform Telephones/Help Points	
201.520.140	Other Systems	
201.600.100	Chambers	
201.600.105	Pipe	
201.600.110 201.600.115	Vent Pipe Separator	
201.600.113	Channels	
201.600.125	Ditch	
201.600.130	Siphon	
201.600.135	Valves	
201.600.140	Outfalls	
201.600.145 201.600.150	Water Retention Tank Treatment Plant	
201.600.155	Pumps	
201.610.100	Access Road	
201.610.105	Car Park	
201.610.110	Covered Walkway	
201.610.115 201.610.120	Forecourt & Paving	
201.610.125	Wall(free standing)	
201.610.130	Steps / Ramps	
201.610.135	Fencing	
·		



SCE Code	Standard Cost Element	Activity Schedule Prices SCE Level
201.610.140	Road Markings	
201.610.145	Vegetation Removal	
201.610.150	Stair Riser Painting	
201.610.135	Gate	
502.100.100	LU Management & Costs	
502.105.100	Design	
502.110.100	Possession Management	
502.115.100	Contractor Preliminaries	
502.120.100	Risk & Contingency	
502.125	Enabling Works	
502.130	Signaller's Interface	
502.135	Train Describer	
502.140 502.145.100	Internal Wiring	
502.145.100	Main Cables Cable Routes	
502.155	Tail Cables	
502.160	Equipment Housings	
502.165	Modifications at fringe boxes	
502.170	Balise	
502.175	GSM-R augmentation	
502.180	Track Circuits	
502.185	Signals - Other Functions	
502.190	Power Supply - Mains	
502.195	Power Supply - External	
502.200	Points - Power	
502.205	Points - Mechanical	
502.210.100	Axle Counters	
502.215	Train Detection - Treadles	
502.220	Warning Systems Other	
502.225	Level Crossings	
502.230	Radio Block Centre	
502.235.100	Testing & Commissioning	
502.240	Recoveries	
502.245	Spare Parts	
502.270.100	Signs And Indicators	
502.315	System Integration	

Appendix 6.2 Quantified Activity Breakdown (QAB)



DRAGADOS BANK STATION CAPACITY UPGRADE

London Underground

Cost & Estimating System

Cost Feedback Structure (CFS)

CONTRACT DATA PART TWO APPENDIX 6.1

Guidance notes for completing the Activity Schedule and Quantified Activity Breakdown (QAB)

- 1 LU has developed the Quantified Activity Breakdown (QAB) template to describe and validate pricing in a consistent format at a required level of detail.
- The Contractor shall use and populate tabs of this workbook for his tender pricing in the ITT response.

The Contractor shall price the QAB fully in accordance with the requirements of WI 500.

- The rates used to populate the QAB tabs for Bank Station Capacity Upgrade project shall be fully inclusive and shall be used in the assessment of Compensation Events. For clarity, the only uplift to be applied to these Prices will be the fee percentage in relation to Compensation Events as stated in Contract Data Part 2.
- 4 The "Activity Schedule" tab in this workbook shows the Level 1 Activity breakdowns
- 5 Reference should also be made to the Labour Rates Matrix tab and the narrative included.
- The Activity Schedule requires the Contractor to price for each Level 1 activity. These are mandatory to be priced and must not be amended.
- In addition, the Activity Schedules require the Contractor to propose further Standard Cost Element activities (Level 2). LU has proposed some Level 2 activities, however, the Contractor shall propose additional relevant Level 2 activities by inserting a row and reference in the spreadsheet. The Contractor must complete the cost build up data for each activity in each of the numbered worksheets for the design proposal included in the ITT response. Where an activity is not included in your design proposal enter the value zero. Where the QAB does not have a row for an activity on your design proposal add a new row, referencing in sequence and identifying it as a new row by shading green.
- The sum total of the Level 2 activities within a Level 1 Activity shall build-up to and match the Level 1 Activity totals on the Activity Schedule.
- 9 The Activity Schedules are summarised in the "Summary" tab.
- The Contractor is required to <u>fully price</u> the Quantified Activity Breakdown for all the labour, materials, and plant components of cost for <u>each</u> Level 2 activity. The totals from the Quantified Activity Breakdown for each Level 2 activity shall be the same as the Level 2 activity Prices on the Activity Schedule. Data input to the QAB will be in accordance with Works Information WI500.
- 11 LUL will use the QAB for tender evaluation purposes.

13 In completing the QAB the Contractor shall:

12

- a Complete the Standard Cost Element with Level 2 activities as necessary. Any new Level 2 activities shall be added to the Activity Schedule
- b Labour Code in column L, and Labour Rate in column H utilising only the labour type classifications and rates from the Labour Rates Matrix.
- No Labour Types or Labour Rates shall be used that do not directly derive from the Labour Rates Matrix.
- d Enter Labour Shifts in column G
- e The Labour Total in column I shall be the product of the Labour Shifts in column G and Labour Rate in column H
- g Materials costs shall be entered by Description in column J, Amount in column K, Unit of Measure in column L, and Rate in column M
- h The Material Total for a Level 1 Activity entered in the unshaded row shall be the summation of the Level 2 Material Totals
- i Plant costs shall be entered by Description in column O, Amount in column P Unit measure in column Q, and Rate in column R
- 14 Each of the Total Costs values for Labour, Materials, and Plant in the QAB (Level 1 and 2) must be the same value as the Prices included in the Activity Schedule
- The value of the total of the costs in the QAB must be the same as the value in the completed Activity Schedule.

 The QAB and the Activity Schedule must align directly with the activities in the Contractor's tendered Programme
- Where there is a difference between the QAB and the Activity Schedule, the higher value may be used for evaluation purposes.
- 17 The QAB shall be completed in Excel as the template provided, and the Contractor shall check the arithmetical logic in products and summations used throughout, as well as consistency with the Activity Schedule.
- The Contractor shall price the following Activities on a "net cost reimbursable" basis. All other Activities are to be completed in line with the NEC Contract Option C:
 - (a) Design costs and the management of the design process up to and including the attainment of Concept Design acceptance in accordance with Standard S1538
 - (b) Design costs and the management of the design process up to and including the attainment of Compliance Submission acceptance in accordance with Standard S1538.
 - (c) Design costs and the management of the design process up to and including the submission by the Employer of the Transport And Works Act Order Application.
 - (d) Actual costs payable by the Contractor to the Utility Companies undertaking service diversions and /or strengthening existing utilities to enable the implementation of the works (incl Design).

19	For the avoidance of doubt "net cost reimbursable" costs shall be consistent with the Schedule of Cost Components.
20	Design and Management of the works shall be based upon the net cost of employment of individuals.
21	Site overheads shall be separately priced lump sums within the Activity Schedules/QAB
22	All Contractors costs relating to the management, planning, and coordination (reference WI 915(3)) of the Utility Companies service diversions, alterations and /or strengthening works in relation to the Works do not form part of net cost reimbursable amounts described in 18(d) above. Equally, temporary service connections to support site offices, site compounds, or any working areas do not form part of the net cost reimbursable amounts.

- Where revisions to activities in the QAB and Activity Schedule are agreed, the basis of payment of the fee associated with those activities will be set to reflect two principles:
 - i. Incentivisation of timely delivery by linking fee release to completion of activities; and
 - ii. Preservation of Contractor cash flow.

For example, fee release for generic management activity costs may be paid each Period whereas fee release for specific physical activity costs may be paid on completion of that activity.

High Level Analysis Structure (ARC)	Cost Feedback Structure

Level 1	TfL Mode	Rail & Underground
Level 2	Directorate	Capital Programmes
Level 3	Programme	Station Capacity
Levels 4 - 6	Portfolio, etc	n/a
Level 7	Projects (Location/Title)	Bank station capacity upgrade
Level 7a	Sub-Projects (Geographical Sub-Division)	To be determined by Contractor

	Level /a	Sub-Projects (Geographical Sub-Division)	To be determined by Contractor
			<u> </u>
Group Code	Implementation		
100	Dormonont Way		
100	Permanent Way 108.100	General Management & Supervision	
	110.105	Design	
	110.110	Engineering & Assurance	
	110.115	Risk & Contingency	
	110.120	Site Facilities	
	110 200	Possession Management	
	110 210	Protection Management	
	110 220	Fleet	
	110 230	Construction	
	110 240	Associated works - Signalling works	
	110 250	Associated works - Power works	
	110 260	Associated works - Conductor Rail works	
	110 270	Associated works - Drainage works	
200	Stations, Platforms & Other		
	Buildings		
	201.100	LU Management & Costs	-
	201.105	Design	-
	201.110	Possession Management	-
	201.115	Preliminaries	-
	201.120	Risk	-
	201 200	Enabling Works	<u> </u>
	201 210	Tunnels & Shafts Station Box/Station Structure	
	201 220	Ticket Hall	-
	201 230 201 240	Concourse	-
	201 250	Circulation Areas / Passages	-
	201 255	Operations Rooms	<u> </u>
	201 256	Staff Facilities/Rooms	-
	201 257	Other Rooms/Areas	_
	201 260	Platform	-
	201 270	Station Signage	-
	201 300	Lifts & Escalators	-
	201.400	Fare Collection	-
	201 500	Fire Mechanical & Services	-
	201 510	Electrical (AC Only)	-
	201 520	Communications & Other Systems	-
	201 600	Drainage (External)	-
	201 610	External Works	-
300	Power (& Cooling)		
400	Bridges, Tunnels & Other		
	Structures		
500	Control Systems		<u> </u>
500	Control Systems		
600	Communications		<u> </u>
600	Communications		
700	Polling Stook		
700	Rolling Stock		1
800	Other Development Costs		
		OSD	
		Land/Property Acquisition	
		Transport & Works Act	
900	Risk		
1000	Inflation		
İ			

Labour Rates Matrix Template for Rates for People and for Labour Rates to be used in the Quantified Activity Breakdown (QAB)

Notes:-

The labour rates included under this matrix shall be those used in the assessment of Compensation Events. The rates will be "all-in" and inclusive of all uplifts and overheads. These rates shall be those applied to in the assessment of Compensation Events. For clarity, no people overheads or fee percentage will be applied to these labour rates.

Further, only rates from this Labour Rates Matrix shall be used to populate the Quantified Activity Breakdown (QAB). The QAB will shall be used as the basis for assessing Compensation Events, where the Project Manager decides that this is appropriate and relevant to the issue causing the Compensation Event. In populating the labour rates in the QAB, the Contractor shall denote the appropriate labour code - for example a Groundworker standard traffic hours 8 hours shift in the day on a Monday would be denoted as "CIV01G" on the QAB and the rate would correspond with that on the matrix below.

In submitting these rates, the Contractor acknowledges and agrees that these labour rates shall apply for the assessment of Compensation Events.

The Contractor shall populate rates against the various trades and grades for EACH of the Engineering Hours / Traffic Hours / Bank Holidays categories. If the Contractor considers it appropriate to add additional work trades / grades, then he should do so at the bottom of the matrix, and insert the appropriate description

Rates shall be populated on a "per shift" basis for the base shift, and the overtime hourly rate shall be the rate to be paid for any hours over the base shift.

For Engineering Hours, and in particular for the assessment of Frustrated Access Compensation Events, the amount to be assessed will be the applicable shift rate, pro-rata to the time lost, divided by the Available Engineering Hours.

Standard Weekend shifts shall be as categorised on the rates matrix, unless specifically mentioned otherwise by the supplier in his return, i.e. Friday / Saturday Engineering Hours, Saturday / Sunday Traffic hours.

Weekend closure shift rates will be calculated and paid on the basis of the flat 8 hours plus Overtime rate for however many hours worked – e.g. 12 hour closure shift will comprise flat 8 hours shift, plus 4 hours at the appropriate overtime rate.

The submitted rates and the QAB which is to be founded upon these rates will be used and factored into the commercial evaluation of tenders.

Bank Station Capacity Upgrade

Dragados

Diagados			Engineering Hours					Traffic Hours			
	Shift Pattern Code	Α	В	C	D	E	F	G	Н		L
					Weekend	Weekend	Weekend			Weekend	Bank
DAYS OF WORKING		Sun-Thur	Sun-Thur	Sun-Thur		(Fri-Sat)	(Fri-Sat)	Mon-Fri	Mon-Fri	(Sat-Sun)	
MINIMUM HOURS OF V	I NORKING	Eng Hours	8 Hours	1 Hour	Eng Hours	8 Hours	1 Hour	8 Hours	1 Hour	8 Hours	1 Hour
REF Code	Trade	Shift Rate	Shift Rate	Overtime	Shift Rate	Shift Rate		Shift Rate	Overtime	Shift Rate	
TUN01	Helper										
TUN02	Leading Miner										
TUN03	Dumper driver										
TUN04	Underground labour										
TUN05	Carpenter										
TUN06	Electrician										
TUN07	Nozzle man										
TUN08	Mechanical fitter										
TUN09	Welder										
TUN10	Loader operator										
TUN11	Underground labour										
CIV01	Groundworker										
CIV02	Drainlayer										
CIV03	Driller										
CIV04	Groutman										
CIV05	Concrete Worker / Finisher										
CIV06	Reinforcement Steel Fixer										
CIV07	Shuttering Joiner / Carpenter										
CIV08	Bricklayer / Mason										
CIV09	Roofer										
CIV10	Steel Erector										
CIV11	Carpenter										
CIV12	Joiner			1							
CIV13	Screeder			1							
CIV14	Plasterer										
CIV15	Plasterboard Fixer										
CIV16	Tiler										
CIV17	Glazier										
CIV18	Painter										
CIV19	Plant Operative			1							
CIV20	Scaffolder										
CIV21	Coded Welder										
CIV22	Concrete Gang Chargehand										
CIV23	Dumper Driver (10T)										
CIV24	Concrete Labourer										
CIV27	Foreman										
CIV28	Approved Asbestos Operative										
COM01	Communications Supervisor										
COM02	Senior Comms Engineer										
COM03	Communications Engineer										
COM04	Communications Installer										
ELE01	Approved Electrician Level 2										
ELE02	Electrician's Mate										
ELE03	Lead Electrical SPiC										
ELE04	Electrical SPiC										
ELE05	Safe Isolation Level 3 Electrician										
ELE06	Cable Puller										
ELE07	Electrical Engineer										
ELE08	Electrical Supervisor										
ELE09	NICEIC Tester										
	11000										

Dragados				Engineerir	na Hours			т т	raffic Hour	'S		
	Shift Pattern Code	Α	В	C	D	E	F	G	Н		L	
					Weekend	Weekend	Weekend			Weekend	Bank	
DAYS OF WORKING		Sun-Thur	Sun-Thur	Sun-Thur		(Fri-Sat)	(Fri-Sat)	Mon-Fri	Mon-Fri	(Sat-Sun)		
MINIMUM HOURS OF V	NOBKING	Eng Hours	8 Hours	1 Hour	Eng Hours	8 Hours	1 Hour	8 Hours	1 Hour	8 Hours	1 Hour	
REF Code	Trade	Shift Rate	Shift Rate	Overtime		Shift Rate		Shift Rate	Overtime	Shift Rate		
		Orant reaco	Crime reacto	Overtime	Crime reaco	Chill Hate	Overtune	Chine reaco	Overtime	Crime react	Overtune	
ELE10	Technical Officer (TO)											
FIR01	Fire Systems Installer											
LAB01	Ganger											
LAB02	Chainman											
LAB03	General Labourer											
LAB04	Semi-Skilled Labourer											
LAB05	Senior Semi-Skilled Labourer											
LAB06	Trade Foreman											
	Operative certified for lift & escalator											
LAB07	materials handling											
LAB08	Topman for confined space working											
LAB09	Cleaner											
LAB10	Groundworker Foreman											
LAB11	Labourer (Track Accustomed)											
LAB12	Floor Layer											
MEC01	Mechanical Mate											
MEC02	Mechanical Fitter											
MEC03	Pipefitter											
MGT01	Design Engineer - Civils											
MGT02	Design Engineer - Comms											
MGT03	Design Engineer - Fire Systems											
MGT04	Design Engineer - M&E											
MGT05	Assurance Engineer											
MGT06	Project Manager											
MGT07	Site Manager											
MGT08												
	Commercial Manager											
MGT09	Contract Administrator											
PLU01	Approved Plumber											
PLU02	Plumber's Mate											
A code will be allocated												
SPC01	SPiC (M&E)											
A code will be allocated	Protection Master											
A code will be allocated	Protection Master (SPC)											
A code will be allocated	SPC											
A code will be allocated	Train Master											
A code will be allocated	Possession Master											
A code will be allocated	Fire Watchman											
A code will be allocated	Lookout LU											
A code will be allocated												
A code will be allocated												
A code will be allocated												
A code will be allocated												
A code will be allocated												
A code will be allocated	†											
A code will be allocated	Approved Asbestos Supervisor											
A code will be allocated	Signage Installer											
A code will be allocated	Collapsible Gate Installer											
	Steel Door Installer											
A code will be allocated												
A code will be allocated	Ceiling Fixer											
A code will be allocated	Comms Labourer											

Dragados				Engineerin	а Цанка			-	raffic Hour		
	Shift Pattern Code	Α	В	Engineerin C	g nours D	Е	F	G	H	S	
	Shirt Pattern Code	_ ^		<u> </u>	_		-	9	- "	1	
					Weekend		Weekend			Weekend	Bank
DAYS OF WORKING		Sun-Thur		Sun-Thur		(Fri-Sat)	(Fri-Sat)	Mon-Fri	Mon-Fri	(Sat-Sun)	_
MINIMUM HOURS OF W		Eng Hours	8 Hours	1 Hour	Eng Hours	8 Hours	1 Hour	8 Hours	1 Hour	8 Hours	1 Hour
REF Code	Trade	Shift Rate	Shift Rate	Overtime	Shift Rate	Shift Rate	Overtime	Shift Rate	Overtime	Shift Rate	Overtime
A code will be allocated	Comms CAD Technician										
A code will be allocated	Comms Project Manager										
A code will be allocated	GLAP Installer										
A code will be allocated	Electrical Site Manager										
A code will be allocated	Electrical Surveyor										
A code will be allocated	Quantity Surveyor										
A code will be allocated	Planner										
A code will be allocated	Secretary / Document Controller										
	l l l l l l l l l l l l l l l l l l l										
A code will be allocated	Director										
A code will be allocated	Traffic Marshal										
7. Jour Will Do allocated	Traine Warehai										
A code will be allocated	Security Guard Days										
A code will be allocated	Waste Operative										
A COUR WIII DE AIIOCALEO	vvaste Operative										
A code will be allocated	Hoist Driver										
A code will be allocated	Forklift Driver										
A code will be allocated	Slinger										
A code will be allocated	Further trades as specified by Contractor										
A code will be allocated	Pipe Welder										
MGT10	Associate Engineer Track										
MGT11	Principal Engineer Track										
MGT12	Senior Assistant Engineer Track										
MGT13	Engineer Track										
MGT14	Technician Track										
MGT15	Director/Associate M&E Manager										
MGT16	Principal Engineer (Elec)										
MGT17	Principal Engineer (Mech)										
MGT18	Principal Engineer Communications										
MGT19	Principal Engineer Fire										
MGT20	Senior Engineer Electrical										
MGT21	Senior Engineer Electrical Senior Engineer Mechanical										
MGT22	Engineer Mechanical										
MGT23	Engineer Mechanical Engineer Electrical										
MGT24											
	Engineer Communications										
MGT25	Engineer Fire										
MGT26	Assistant Engineer Electrical										
MGT27	Assistant Engineer Mechanical										
MGT28	Assistant Communications Engineer										
MGT29	Senior Engineer M&E										
MGT30	Lift Engineer										
MGT31	M&E CAD Technician										
MGT32	Principal Building Physicist										
MGT33	Building Physicist										
MGT34	Public Health Engineer										
MGT35	M&E Coordinator										

Diagados				Engineerin	na Hours			l T	raffic Hour	rs	
	Shift Pattern Code	Α	В	C	D	E	F	G	Н		L
					Weekend	Weekend	Weekend			Weekend	Bank
DAYS OF WORKING		Sun-Thur	Sun-Thur	Sun-Thur		(Fri-Sat)	(Fri-Sat)	Mon-Fri	Mon-Fri	(Sat-Sun)	
MINIMUM HOURS OF V	VORKING	Eng Hours	8 Hours	1 Hour	Eng Hours	8 Hours	1 Hour	8 Hours	1 Hour	8 Hours	1 Hour
REF Code	Trade	Shift Rate	Shift Rate	Overtime	Shift Rate	Shift Rate		Shift Rate	Overtime	Shift Rate	
MGT37	Principal Engineer Structures										
MGT38	Senior Engineer Structures			1							
MGT39	Design Engineer Structures										
MGT40	Engineer Structures										
MGT41	Assistant Engineer Structures										
MGT42	Graduate Engineer Structures			1							
MGT43	CAD Technician Structures			1							
MGT44	Senior Technician Structures			-							
MGT45	Technician Structures										
MGT46	Principal Engineer Utilities										
MGT47	Senior Engineer Utilities			-							
MGT48	Engineer Utilities										
MGT49	Senior Assistant Engineer Utilities										
MGT50	CAD Technician Utilities										
MGT51	Director/Associate Planning & Consents										
MGT52	Planning and Consents Consultant										
MGT53	Planning and Consents Junr Consultant										
MGT54	Planning and Consents Principal Consultant	<u>t</u>									
MGT55	Planning and Consents Senior Consultant										
MGT56	Planning and Consents Consultant Planner										
MGT57	Planning and Consents Principal Planner										
MGT58	Planning and Consents Environmental Cons	sultant									
MGT59	Planning and Consents Consultation Specia	alist									
MGT60	GeoServices Director										
MGT61	GeoServices Principal Desk Study/GI										
MGT62	GeoServices Principal WBS and Shafts										
MGT63	GeoServices Principals Settlement										
MGT64	GeoServices Senior Eng Desk Study/GI										
MGT65	GeoServices Senior Eng WBS and Shafts										
MGT66	GeoServices Senior Eng Settlement										
MGT67	GeoServices Engineer Desk Study/GI										
MGT68	GeoServices Engineer WBS and Shafts										
MGT69	GeoServices Engineer Settlement			1							
MGT70	GeoServices Assistant Engineer Desk Stud	v/GI		1							
MGT71	GeoServices Assistant Engineer WBS and	,									
MGT72	GeoServices Assistant Engineer WBC and Control of the Control of t										
MGT73	GeoServices CAD Technician										
MGT74	Design Director										
MGT75	Design Manager										
MGT76	ů ů										
	Design Package 1 Manager										
MGT77	Design Package 2 Manager										
MGT78	Design Package 3 Manager										
MGT79	Design Coordinator										
MGT80	Design Project Controls										
MGT81	Design Commercial Manager										
MGT82	Design Commercial Assistant										
MGT83	Design Commercial Assistant										
MGT84	Design Team Planner										
MGT85	Document Controller										
MGT86	Design Administrator										

Dragados				Engineerin	na Hours			1	raffic Hour	rs	
	Shift Pattern Code	Α	В	C	D	E	F	G	Н		L
					Weekend	Weekend	Weekend			Weekend	Bank
DAYS OF WORKING		Sun-Thur	Sun-Thur	Sun-Thur		(Fri-Sat)	(Fri-Sat)	Mon-Fri	Mon-Fri	(Sat-Sun)	
MINIMUM HOURS OF V	NORKING	Eng Hours	8 Hours	1 Hour	Eng Hours	8 Hours	1 Hour	8 Hours	1 Hour	8 Hours	1 Hour
REF Code	Trade	Shift Rate	Shift Rate	Overtime	Shift Rate	Shift Rate		Shift Rate	Overtime	Shift Rate	
		Orme reaco	Orme reaco	O vortanio	Orme reaco	Crime react	o vortiino	Crime reacto	o vortiinio	Orme reaco	O VOI LIII II O
MGT87	CAD Manager										
MGT88	BIM Manager										
MGT89	Quality Manager										
MGT90	Risk Manager										
MGT91	CDM Specialist										
MGT92	Assurance Manager										
MGT93	Assurance Engineer										
MGT94	Assurance Technical Support										
MGT95	Assurance Technical Support										
MGT96	Requirements Manager										
MGT97	V&V Manager										
MGT98	Engineering Safety Manager										
MGT99	RAM Manager										
MGT100	System Interface Manager										
MGT101	Human Factors Consultant										
MGT102	EMC Manager										
MGT103	Fire Safety Manager										
MGT104	Technical Director Tunnelling										
MGT105	Associate Engineer Tunnelling										
MGT106	Principal Engineer Tunnelling										
MGT107	i i										
	Senior Engineer Tunnelling										
MGT108	Engineer Tunnelling										
MGT109	Assistant Engineer Tunnelling										
MGT110	Senior Technician Tunnelling										
MGT111	Technician Tunnelling										
MGT112	Senior Engineer PED Flow										
MGT113	Associate Engineer Landscaping										
MGT114	Senior Engineer Landscaping										
MGT115	CAD Technician Landscaping										
MGT116	Tunneling Associate Construction Support										
MGT117	Pinciple Lanscaping										
MGT10	Associate Engineer Track										
MGT11	Principal Engineer Track										
MGT12	Senior Assistant Engineer Track										
MGT13	Engineer Track										
MGT14	Technician Track										
MGT15	Director/Associate M&E Manager										
MGT16	Principal Engineer (Elec)										
MGT17	Principal Engineer (Mech)										
MGT18	Principal Engineer Communications										
	i v										
MGT19	Principal Engineer Fire										
MGT20	Senior Engineer Electrical										
MGT21	Senior Engineer Mechanical										
MGT22	Engineer Mechanical										
MGT23	Engineer Electrical										
MGT24	Engineer Communications										
MGT25	Engineer Fire										
MGT26	Assistant Engineer Electrical										
MGT27	Assistant Engineer Mechanical										
MGT28	Assistant Communications Engineer										

Dragados				Engineerin	a Hours			T	raffic Hour	s	
	Shift Pattern Code	Α	В	C	D	Е	F	G	Н		L
	Office Code		_	_	Weekend		Weekend			Weekend	Bank
DAYS OF WORKING		Sun-Thur	Sun-Thur	Sun-Thur		(Fri-Sat)	(Fri-Sat)	Mon-Fri	Mon-Fri	(Sat-Sun)	
MINIMUM HOURS OF V	NORKING	Eng Hours	8 Hours	1 Hour	Eng Hours	8 Hours	1 Hour	8 Hours	1 Hour	8 Hours	1 Hour
REF Code	Trade	Shift Rate	Shift Rate	Overtime	Shift Rate	Shift Rate		Shift Rate	Overtime	Shift Rate	
MGT29	Senior Engineer M&E	0	J			J	0.0	0	3 1 3 1 1 1 1 1	0	
MGT30	Lift Engineer										
MGT31	M&E CAD Technician										
MGT32	Principal Building Physicist										
MGT33	Building Physicist										
MGT34	Public Health Engineer										
MGT35	M&E Coordinator										
MGT36	Technical Director Structures										
MGT37	Principal Engineer Structures										
MGT38	Senior Engineer Structures										
MGT39	Design Engineer Structures										
MGT40	Engineer Structures										
MGT41	Assistant Engineer Structures										
MGT42	Graduate Engineer Structures										
MGT43	CAD Technician Structures										
MGT44	Senior Technician Structures										
MGT45	Technician Structures										
MGT46	Principal Engineer Utilities										
MGT47	Senior Engineer Utilities										
MGT48	Engineer Utilities										
MGT49	Senior Assistant Engineer Utilities										
MGT50	CAD Technician Utilities										
MGT51	Director/Associate Planning & Consents										
MGT52	Planning and Consents Consultant										
MGT53	Planning and Consents Junr Consultant										
MGT54	Planning and Consents Principal Consultant										
MGT55	Planning and Consents Senior Consultant										
MGT56	Planning and Consents Consultant Planner										
MGT57	Planning and Consents Principal Planner										
MGT58	Planning and Consents Environmental Cons	sultant									
MGT59	Planning and Consents Consultation Specia										
MGT60	GeoServices Director										
MGT61	GeoServices Principal Desk Study/GI										
MGT62	GeoServices Principal WBS and Shafts										
MGT63	GeoServices Principal Settlement										
MGT64	GeoServices Senior Eng Desk Study/GI										
MGT65	GeoServices Senior Eng WBS and Shafts										
MGT66	GeoServices Senior Eng Settlement										
MGT67	GeoServices Engineer Desk Study/GI										
MGT68	GeoServices Engineer WBS and Shafts										
MGT69	GeoServices Engineer Settlement										
MGT70	GeoServices Assistant Engineer Desk Stud	v/GI									
MGT71	GeoServices Assistant Engineer WBS and										
MGT72	GeoServices Assistant Engineer Settlement										
MGT73	GeoServices CAD Technician										
MGT74	Design Director										
MGT75	Design Manager										
MGT76	Design Package 1 Manager										
MGT77	Design Package 2 Manager										
MGT78	Design Package 3 Manager										

Dragados		<u> </u>		Engineerir	na Houre				raffic Hou	' C	
	Shift Pattern Code	Α	В	C	D D	E	F	G	H	3	
	Shirt Pattern Code	_ ^			_		1		- ''	1	
DAVO OF MODIZINO		Com Thom	C Th	C Th	Weekend		Weekend		Man Fui	Weekend	Bank
DAYS OF WORKING	IODIZINO.	Sun-Thur	Sun-Thur	Sun-Thur	(Fri-Sat)	(Fri-Sat)	(Fri-Sat)	Mon-Fri	Mon-Fri		Holidays
MINIMUM HOURS OF W REF Code	Trade	Eng Hours Shift Rate	8 Hours Shift Rate	1 Hour Overtime	Eng Hours Shift Rate	8 Hours Shift Rate	1 Hour Overtime	8 Hours Shift Rate	1 Hour Overtime	8 Hours Shift Rate	1 Hour Overtime
		Shirt Kate	Shill Rate	Overtime	Shill Rate	Shill Rate	Overtime	Shirt Rate	Overtime	Shill Rate	Overtime
MGT79	Design Coordinator										
MGT80	Design Project Controls										
MGT81	Design Commercial Manager										
MGT82	Design Commercial Assistant										
MGT83	Design Commercial Assistant										
MGT84	Design Team Planner										
MGT85	Document Controller										
MGT86	Design Administrator										
MGT87	CAD Manager										
MGT88	BIM Manager										
MGT89	Quality Manager										
MGT90	Risk Manager										
MGT91	CDM Specialist										
MGT92	Assurance Manager										
MGT93	Assurance Engineer										
MGT94	Assurance Technical Support										
MGT95	Assurance Technical Support										
MGT96	Requirements Manager										
MGT97	V&V Manager										
MGT98	Engineering Safety Manager										
MGT99	RAM Manager										
MGT100	System Interface Manager										
MGT101	Human Factors Consultant			1							
MGT102	EMC Manager			1							
MGT103	Fire Safety Manager			1							
MGT104	Technical Director Tunnelling										
MGT105	Associate Engineer Tunnelling										
MGT105 MGT106	Principal Engineer Tunnelling										
MGT100 MGT107	Senior Engineer Tunnelling			1							
MGT107 MGT108	Engineer Tunnelling			+							
	i v										
MGT109 MGT110	Assistant Engineer Tunnelling										
	Senior Technician Tunnelling										
MGT111	Technician Tunnelling										
MGT112	Senior Engineer PED Flow			-							
MGT113	Associate Engineer Landscaping										
MGT114	Senior Engineer Landscaping										
MGT115	CAD Technician Landscaping										
MGT116	Tunneling Associate Construction Support										
MGT117	Pinciple Lanscaping										
MGT118	Architecture - Director										
MGT119	Architecture - Director										
MGT120	Architecture - Associate Director										
MGT121	Architecture - Senior Architect										
MGT122	Architecture - Senior Architect										
MGT123	Architecture - Architect										
MGT124	Architecture - Architect										
MGT125	Architecture - Specification Architect										
MGT126	Architecture - Assistant Architect (P2)										
MGT127	Architecture - Assistant Architect (P2)										
MGT128	Architecture - Assistant Architect (P1)										

Dragados

Bank Station Capacity Upgrade

				Engineerin	g Hours			T	raffic Hour	S	
	Shift Pattern Code	Α	В	С	D	E	F	G	Н		L
					Weekend	Weekend	Weekend			Weekend	Bank
DAYS OF WORKING		Sun-Thur	Sun-Thur	Sun-Thur	(Fri-Sat)	(Fri-Sat)	(Fri-Sat)	Mon-Fri	Mon-Fri	(Sat-Sun)	Holidays
MINIMUM HOURS OF V	VORKING	Eng Hours	8 Hours	1 Hour	Eng Hours		1 Hour	8 Hours	1 Hour	8 Hours	1 Hour
REF Code	Trade	Shift Rate	Shift Rate	Overtime	Shift Rate	Shift Rate	Overtime	Shift Rate	Overtime	Shift Rate	Overtime
MGT129	Architecture - Visualiser										
MGT130	Architecture - OSD Senior Architect										
MGT131	Architecture - OSD Architect										
MGT132	Architecture - OSD Architect										
MGT133	Architecture - OSD Assistant Architect (P2)										
MGT134	Architecture - OSD Assistant Architect (P2)										
MGT135	Architecture - OSD Assistant Architect (P1)										
MGT136	SCL - Project Director										
MGT137	SCL - Tunnelling Expert										
MGT138	SCL - Project Manager										
MGT139	SCL - Design Manager										
MGT140	SCL - Senior Engineer										
MGT141	SCL - Engineer										
MGT142	SCL - Financial Control Manager										
MGT143	SCL - CAD Manager										
MGT144	SCL - 3D CAD Technician										
MGT145	SCL - 2D CAD Technician										
MGT146	SCL - Junior Engineer										

Room Coding Schedule

Section 11 Supporting Information LUSTN-0008798-XXX

This is an example based on the Base Case. Contractor will amend as necessary for his proposal and cross reference to the individual QAB sections.

,			Drawing ref						
Level	Room Ref.	Geo.Location	LUSTN_00008798-		CBS Ref. Code	Structure	Fit-out	Escalator & Lifts	General Note
1F	X1001	Station Box	004116	HVAC System A HVAC System B	BoH	201.220	201.257		
1F	X1002 X1003	Station Box Station Box	004116	HVAC System B HVAC system C	BoH	201.220 201.220	201.257 201.257		
1F 1F	X1003 X1004	Station Box	004116 004116	HVAC System D	BoH BoH	201.220	201.257		
'' 1F	X1004 X1005	Station Box	004116	HVAC System E	BoH	201.220	201.257		
 1F	X1006	Station Box	004116	LU Plant Area 1	ВоН	201.220	201.257		
1F	X1007	Station Box	004116	LU Plant Area 2	ВоН	201.220	201.257		
1F	X1008	Station Box	004116	LU Stair1 to Street Level	BoH	201.220	201.257		
1F	X1009	Station Box	004116	Lobby1	BoH	201.220	201.257		
1F	X1010	Station Box	004116	Lobby2	BoH	201.220	201.257		
1F	X1011	Station Box	004116	LU Stair2 to Street Level	BoH	201.220	201.257		
1F	X1012	Station Box	004116	OSD	BoH	201.220	201.257		
1F	X1013	Station Box	004116	OSD Stair1 to Street level	BoH	201.220	201.257		
1F	X1014	Station Box	004116	LU Lift 1	FoH	201.210.165	N/a	201.300	
1F 1F	X1015	Station Box	004116	LU Lift 2	FoH FoH	201.210.165	N/a	201.300	
1F	X1016 X1017	Station Box Station Box	004116 004116	LU Lift 3 LU Lift 4	FoH	201.210.165 201.210.165	N/a N/a	201.300 201.300	
GF	XG001	Station Box	004113	Ticket Hall	FoH	201.220	201.230	201.300	
GF	XG001 XG002	Station Box	004113	POM1	FoH	201.220	201.257		
GF	XG002 XG003	Station Box	004113	POM2	FoH	201.220	201.257		
GF	XG004	Station Box	004113	Riser 1	ВоН	201.220	201.257		
GF	XG005	Station Box	004113	Riser 2	ВоН	201.220	201.257		
GF	XG006	Station Box	004113	Riser 3	BoH	201.220	201.257		
GF	XG007	Station Box	004113	Riser 4	BoH	201.220	201.257		
GF	XG008	Station Box	004113	OSD Lower Lobby Entrance	BoH	201.220	201.257		
GF	XG009	Station Box	004113	LU Stair1 to UB	ВоН	201.220	201.257		
GF	XG010	Station Box	004113	LU Stair2 to 1st	BoH	201.220	201.257		
GF	XG011	Station Box	004113	OSD Stairs	BoH	201.220	201.257		
GF	XG012	Station Box	004113	WC	BoH	201.220	201.257		
GF GF	XG013	Station Box	004113	Cleaning Services Store	BoH	201.220	201.257		
GF GF	XG014 XG015	Station Box Station Box	004113 004113	Cleaners Store & Water Poi Bin Store	BoH BoH	201.220 201.220	201.257 201.257		
GF GF	XG016	Station Box	004113	LU Stair3 to Basement	ВоН	201.220	201.257		
GF	XG017	Station Box	004113	LU Stair4 to 1st	BoH	201.220	201.257		
GF	XG018	Station Box	004113	Secure Lobby 1	ВоН	201.220	201.257		
GF	XG019	Station Box	004113	Secure Lobby 2	ВоН	201.220	201.257		
GF	XG020	Station Box	004113	Paper Store	BoH	201.220	201.257		
GF	XG021	Station Box	004113	LU Lift 1	FoH	201.210.165	N/a	201.300	
GF	XG022	Station Box	004113	LU Lift 2	FoH	201.210.165	N/a	201.300	
GF	XG023	Station Box	004113	LU Lift 3	FoH	201.210.165	N/a	201.300	
GF	XG024	Station Box	004113	LU Lift 4	FoH	201.210.165	N/a	201.300	
GF	XG025	Station Box	004113	OSD Service Area	ВоН	201.220	201.257		
UB	XU001	Station Box	004114	OSD	ВоН	201.220	201.257	004.000	
UB	XU002	Station Box	004114	LU Lift 1	FoH	201.210.165	N/a	201.300	
UB UB	XU003 XU004	Station Box Station Box	004114 004114	LU Lift 2 LU Lift 3	FoH FoH	201.210.165 201.210.165	N/a N/a	201.300 201.300	
UB	XU004 XU005	Station Box	004114	LU Lift 4	FoH	201.210.165	N/a N/a	201.300	
UB	XU006	Station Box	004114	Void 1	BoH	201.220	201.257	201.300	
UB	XU007	Station Box	004114	Void 2	BoH	201.220	201.257		
UB	XU008	Station Box	004114	MEP Plant	ВоН	201.220	201.257		
UB	XU009	Station Box	004114	Stair1 to Street	ВоН	201.220	201.257		
UB	XU010	Station Box	004114	Stair2 to Street	ВоН	201.220	201.257		
UB	XU011	Station Box	004114	Stair3 to LB	BoH	201.220	201.257		
UB	XU012	Station Box	004114	Riser	BoH	201.220	201.257		
LB	XL001	Station Box	004115	Pressurisation Plant Room	ВоН	201.220	201.257		
LB	XL002	Station Box	004115	CER	ВоН	201.220	201.255		
LB	XL003	Station Box	004115	Stair1 to UB	ВоН	201.220	201.257		
LB	XL004	Station Box	004115	LU Supply Plant Room	BoH	201.220	201.257		
LB LB	XL005 XL006	Station Box Station Box	004115 004115	Male WC Female WC	BoH BoH	201.220 201.220	201.256 201.256		
LB	XL000 XL007	Station Box	004115	Mess/Kitchen	ВоН	201.220	201.256		
LB	XL007 XL008	Station Box	004115	DNO Room	BoH	201.220	201.257		
LB	XL009	Station Box	004115	Protected Lobby	BoH	201.220	201.257		
LB	XL010	Station Box	004115	Stair2 to UB	ВоН	201.220	201.257		
LB	XL011	Station Box	004115	Radio Room	ВоН	201.220	201.257		
LB	XL012	Station Box	004115	Stair3 to Northern Line	ВоН	201.220	201.257		
LB	XL013	Station Box	004115	LU Lift 1	FoH	201.210.165	N/a	201.300	
LB	XL014	Station Box	004115	LU Lift 2	FoH	201.210.165	N/a	201.300	
LB	XL015	Station Box	004115	LU Lift 3	FoH	201.210.165	N/a	201.300	
LB	XL016	Station Box	004115	LU Lift 4	FoH	201.210.165	N/a	201.300	
LB	XL017	Station Box	004115	OLBI 3	ВоН	201.220	201.257		
LB	XL018	Station Box	004115	SCR	BoH	201.220	201.257		
LB	XL019	Station Box	004115	Foul pump Room	BoH BoH	201.220	201.257		
LB LB	XL020 XL021	Station Box Station Box	004115	OSD Riser	BoH BoH	201.220 201.220	201.257 201.257		
LD	XL021	Station DUX	004115	Riser	DUIT	201.220	201.207		

Room Coding Schedule

Bank SCU

LB	XL022	Station Box	004115	Shaft Riser	BoH	201.220	201.257		
LB	XL023	Station Box	004115	UPS Room	BoH	201.220	201.257		
LB	XL024	Station Box	004115	UTS Room	BoH	201.220	201.257		
IL	XI001	Station Shaft	004119	LU Lift 1	FoH	201.210.165	N/a	201.300	
IL	XI002	Station Shaft	004119	LU Lift 2	FoH	201.210.165	N/a	201.300	
ii ii	XI003	Station Shaft	004119	LU Lift 3	FoH	201.210.165	N/a	201.300	
ii	XI004	Station Shaft	004119	LU Lift 4	FoH	201.210.165	N/a	201.300	
i <u>-</u>	XI004 XI005	Station Shaft	004119	FF Stair1 to NL	BoH	201.210	201.257	201.300	
!L	XI005 XI006	Station Shaft	004119	Lobby	BoH	201.220	201.257		
IL II				,					
IL 	XI007	Station Shaft	004119	Riser 1	BoH	201.220	201.257		
IL.	XI008	Station Shaft	004119	Riser 2	BoH	201.220	201.257		
IL	XI009	Station Shaft	004119	Riser 3	BoH	201.220	201.257		
3	3/P01	Central Line	004148	UMC (Escalator 20 & 21)	ВоН	201.210.145	201.257		Escalator to Northern line
3	3/P02	Central Line	004148	Crosspassage	FoH	201.210.105	201.240		Central Line Cross Passages
3	3/P03	Central Line	004148	Crosspassage	FoH	201.210.105	201.240		Central Line Cross Passages
3	3/P04	Central Line	004148	Crosspassage	FoH	201.210.105	201.240		Central Line Cross Passages
3	3/P05	Central Line	004148	New Stairs to Cruciform	FoH		201.250		Stairs to Cruciform
4	4/P01	Triplication Area	004147	UMC (Escalator 18 & 19)	ВоН	201.210.145	201.257		Escalator to Northern line
4	4/P02	Triplication Area	004147	Concourse	FoH	201.210.110	201.240		Triplication Junction
4	4/P03	Triplication Area	004147	Passage	FoH	201.210.110	201.250		LLIP2
4	4/P04	Triplication Area	004147	Crosspassage	FoH	201.210.110	201.240		Triplication Connecting Passages
4	4/P04 4/P05								
4		Triplication Area	004147	Crosspassage	FoH	201.210.105	201.240		Triplication Connecting Passages
4	4/P06	Triplication Area	004147	Crosspassage	FoH	201.210.105	201.240		Triplication Connecting Passages
4	4/P07	Triplication Area	004147	Stairs	FoH	201.210.110	201.250		LLIP2 to LLIP Link Tunnel
4	4/P08	Triplication Area	004147	Crosspassage	FoH	201.210.115	201.240		
4	4/P09	Triplication Area	004147	LMC (Escalator 20 & 21)	ВоН	201.210.145	201.257		Escalator to Central Line
4	ESC3	Triplication Area	004147	Escalator 20 & 21	FoH		201.250	201.300	Central Line to Triplication Escalator
5	5/661	Northern Line	004141	Crosspassage	FoH	201.210.105	201.240		5/611 to be reopened
5	5/761	Northern Line	004141	Crosspassage	FoH	201.210.105	201.240		5/761 to be reopened
5	5/P01	Northern Line	004141	Southbound Platform	FoH	201.210.115	201.260		New Southbound Platform
5	Room	Northern Line	004141	Switchroom1	ВоН	201.220	201.257		
5	Room	Northern Line	004141	CER Node Room1	BoH	201.220	201.257		
5	Room		004141	Switchroom2	BoH				
5		Northern Line				201.220	201.257		
5	Room	Northern Line	004141	CER Node Room2	BoH	201.220	201.257		
5	5/P02	Northern Line	004141	Crosspassage	FoH	201.210.115	201.240		Northern Line Cross Passages
5	5/P03	Northern Line	004141	Crosspassage	FoH	201.210.115	201.240		Ditto
5	5/P04	Northern Line	004141	Crosspassage	FoH	201.210.115	201.240		Northern Line Cross Passages
5	5/P05	Northern Line	004141	Crosspassage	FoH	201.210.115	201.240		
5	5/P06	Northern Line	004141	Crosspassage	FoH	201.210.115	201.240		Northern Line Cross Passages
5	5/P07	Northern Line	004141	Crosspassage	FoH	201.210.115	201.240		
5	5/P08	Northern Line	004141	Crosspassage	FoH	201.210.115	201.240		
5	5/P09	Northern Line	004141	Crosspassage	FoH	201.210.115	201.240		
5	5/P10	Northern Line	004141	Lift Lobby	FoH	201.210.113	201.250		
-				•		204 200			
5	Room	Northern Line	004141	Spare Room	BoH	201.220	201.257		0 7 1
5	5/P11	Northern Line	004141	Concourse	FoH	201.210.110	201.240		Concourse Tunnels
5	Room	Northern Line	004141	Store	ВоН	201.220	201.257		
5	Room	Northern Line	004141	Cleaning Services Store	BoH	201.220	201.257		
5	Room	Northern Line	004141	Cleaners Store	BoH	201.220	201.257		
5	Room	Northern Line	004141	Lobby	BoH	201.220	201.257		
5	5/P12	Northern Line	004141	Passage	FoH	201.210.110	201.250		
5	5/P13	Northern Line	004141	Concourse	FoH	201.210.120	201.240		Northern Line Concourse
5	5/P14	Northern Line	004141	Passage	FoH	201.210.110	201.250		Northern Line to Central Line Link Tunnel
5	5/P15	Northern Line	004141	Passage	FoH	201.210.115	201.250		Northern Line to PRM Link Passage
5	5/P16	Northern Line	004141	PRM Lift to DLR	FoH	201.210.115	201.250	201.300	Northern Line to DLR PRM Staircase
5	5/P16	Northern Line	004141	Staircase	FoH	201.210.115	201.250	201.300	Northern Line to DLR PRM Staircase
5						201.210.113			Notthern Line to DEIX FIXW Stalicase
5	5/P17	Northern Line	004141	Lift Lobby	FoH	004 000	201.250		
5	Room	Northern Line	004141	Shaft Stairs	BoH	201.220	201.257		
5	5/P18	Northern Line	004141	Concourse	FoH	201.210.110	201.240		
5	Room	Northern Line	004141	Lobby	BoH	201.220	201.257		
5	Room	Northern Line	004141	CER Node Room	ВоН	201.220	201.257		
5	Room	Northern Line	004141	OLBI	BoH	201.220	201.257		
5	5/P19	Northern Line	004141	UMC (Escalator 16 & 17)	ВоН	201.210.110 or 145	201.250		Northern Line to DLR Escalator Shaft
5	5/P20	Northern Line	004141	Concourse	FoH	201.210.110	201.240		
5	5/P21	Northern Line	004141	UMC (Escalator 18 & 19)	FoH	201.210.145	201.257		Escalator to Triplication
5	ESC2	Northern Line	004141	Escalator 18 & 19	FoH	201.210.145	201.250	201.300	Northern Line to Triplication Escalator
5	5/P22	Northern Line	004141	Stairs	FoH	201.210.110	201.250		Stairs to Central Line
5	5/P23	Northern Line	004141	Stairs to DLR	FoH		201.250		Stairs to DLR
6	6/P01	Docklands Light Railway	004142	Crosspassage	FoH	201.210.105	201.240		DLR Crosspassage (6/661&6/664)
6	6/P02	Docklands Light Railway	004142	6/751 to UPS Room	BoH	201.220	201.257		DLR UPS
0	6/P03	• • •			FoH	201.220	201.240		
0		Docklands Light Railway	004142	Crosspassage					DLR Crosspassage (6/991)
6	6/P04	Docklands Light Railway	004142	Crosspassage	FoH		201.240		DLR Crosspassage
6	6/P06	Docklands Light Railway	004142	Stair1 to NL	FoH		201.250		Stairs to Northern Line
6	6/P07	Docklands Light Railwa	004142	New LMC	ВоН	201.210.145	201.257		UMC
6	ESC1	Docklands Light Railwa	004142	Escalator 16 & 17	FoH		201.250	201.300	DLR to Northern Line
6	6/P08	Docklands Light Railway	004142	Connection Passage	FoH	201.210.105	201.250		DLR PRM Link Passage
6	6/P09	Docklands Light Railway	004142	Lift Lobby	FoH	201.210.165	201.250		Northern Line to DLR PRM Shaft
6		Docklands Light Railway	004142	PRM Lift	FoH		201.250	201.300	
6		Docklands Light Railway	004142	Escape Stair to NL	FoH		201.250		
6	6/204	Docklands Light Railway	004142	Backfilled Crosspassage	ВоН	201.220	201.257		Northern Line to DLR Staircase
6	6/P10	Docklands Light Railway	004142	New Store Room	BoH	201.220	201.257		Under Escalator
J	5/1 10	2 3 3 Marido Eight Mahway	JJ 11 12	5.510 1.00111	5011	201.220	_0101		Ondoi Edulatoi

UNDERGROUND						Programme	Labour Total (£)	Materials Total (£)	Plant Total (£)
	108.105	Design	m						
				108.105.100	Track Layout & Geometry Design				
	108.120	Preliminaries	m						
				108.120.150	Waste Management & Disposal				
	108.210	Protection Management	m						
				108.210.100					
				108.210.105	Equipment				
	108.230	Construction	m						
				108.230.115	Extra cost for check / slave rail				

108.105	Design		Programme	Labour Type (from the LRM)	Labour Code (from LRM)	Shifts (Nr)	Labour Rate (from LRM £/Shift)	Labour Total (£)
			WBS Ref					
108.105.100	Track Layout & Geo	- metry Design						
108.105.100	Concept Design							
108.105.100		Associate						
108.105.100		Principal Engineer						
108.105.100]	Senior Assistant Engineer						
108.105.100]	Enginner						
108.105.100	1							
108.105.100	Detail Design							
108.105.100		Associate						
108.105.100]	Principal Engineer						
108.105.100	1	Senior Assistant Engineer						
108.105.100	1	Enginner						
108.105.100	1	Technitian						

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R0001 – Cost Feedback Structure -

108.120	Preliminaries	Programme	Labour Type (from the LRM)	Labour Code (from LRM)	Shifts (Nr)	Labour Rate (from LRM £/Shift)	Labour Total (£)	Description	Amount	Unit of Measure (UoM)	Rate (£/UoM)	Labour Total (£)	Description	Amount	Unit (day / week / other)	Rate (£/Unit)	Plant Total (£)
		WBS Ref															4
108.120.150	Waste Management & Disposal						£ -					£ -					£ -
108.120.150	Non Hazourdous 'Inert' Material																

108.210 Protec	tion Management		Labour Type (from the LRM)	Labour Code (from LRM)	Shifts (Nr)	Labour Rate (from LRM £/Shift)	Labour Total (£)	Description	Amount	Unit of Measure (UoM)	Rate (£/UoM)	Materials Total (£)	Description	Amount	Unit (day / week / other)	Rate (£/Unit)	Plant Total (£)
		WBS Ref															
108.200.100 Staff							2										
108.200.100 Stail	Possessions Manager						L -										
	Possessions Planner	ł															
	Protection Master weekdays & Evenings 8 hr shifts Blockade																
	Protection Master (SPC) weekdays & Evenings 8 hour shifts Blockade																
	Fire Watchman Weekdays Blockade																
	Protection Master weekdays & Evenings 12hr shifts Blockade																
	SPC weekdays and Evenings 12 hour shift Blockade																
	Possession Master (POM) weekdays and evenings 12 hour shift Blockade	1															
	Protection Master Saturdays Blockade	1															
	Protection Master (SPC) Saturdays Blockade	1															
	Fire Watchman Saturdays Blockade	1															
	Protection Master (SPC) Sundays Blockade																
	Fire Watchman Sundays Blockade																
	Protection Master Weekend Closures 12hrs days																
	SPC Weekend Closure WK end Closures 12 hr shifts days																
	Possession Master (POM) 12 hour shifts weekend days	1															
	Protection Master Weekend Closures 12 hr shifts 12hr shifts weekend nights	1															
	SPC Weekend Closure 12 hr shifts Weekend nights																
	Possession Master (POM) 12 hour shifts Weekend Nights																
108.210.105 Equipmen	t																
	Engineering Train																

108.230		Construction	Programme	Labour Type (from the LRM)	Labour Code (from LRM)	Shifts (Nr)	Labour Rate (from LRM £/Shift)	Labour Total (£)	Description	Amount	Unit of Measure (UoM)	Rate (£/UoM)	Materials Total (£)	Description	Amount	Unit (day / week / other)	Rate (£/Unit)	Plant Total (£)
			WBS Ref															
		Northern Line																
	Running Tunne																	
108.230.115		Slab Track																
108.230.115		Installtion of Slab Track																
108.230.115		Logistics Gang For Material Handling																
108.230.115 108.230.115 108.230.115		Slave Rail Installation Gang																
108.230.115		Materials (Non Track)																
108.230.115		Prelims																



UNDERGROUND										 Programme	Labour Total (£)	Materials Total (£)	Plant Total (£)
RWI Code	Repeatable Work Item	UoM	E Code	Element	UoM	SE Code	Sub-Element	UoM	Coverage Assumptions	WBS Ref			
201	Station New/Enhancement	m2							Coverage Assumptions	WB5 Rei			
			201.100	LU Management & Costs	m2								
		1				201.100.100	Project & Commercial						
						201.100.110	Engineering						
						201.100.115							
			201 105	Design	m2	201.100.120	Protection Management						
			2011100	Doolg.		201.105.000	Design management						
						201.105.100	TWA / Planning consents						
						201.105.105	Surveys and reports Structural design						
						201.105.115	Architectural Design						
						201.105.120	Mechanical & Electrical Design Environmental design						
							Fire & Safety Design						
						201.105.131	Hard Landscaping						
		1			 _	201.105.135	Railway systems design Utilities Management						
						201.105.137	Geotechnical Services						
						201.105.138	Tunnelling Design						
			201 115	Preliminaries	m2		Pedestrian Modelling & Transport Plann	ing					
						201.115.100	Staff (Construction Phase) Materials Handling Plant						
						201.115.105	Materials Handling Plant						
						201.115.110	Craneage Passenger/Goods Hoists						
						201.115.120	General Plant						
							Temporary works/Access/Haul Roads Environmental Control						
					—	201.115.145	Waste Management & Disposal						
						201.115.160	Setting Out Control						
						201.115.165	Site Hoardings / Barriers Security & Access Control						
					—	201.115.170	Site Storage						
						201.115.180	Temporary Accommodation						
					\vdash	201.115.185	Facilities Management Communications						
						201.115.205	IT Equipment & running costs						
			004 400	Dist		201.115.210	HSE/Protective Clothing Equipment						
			201.120	RISK	m2	201.120.100	Project risk						
			201.200	Enabling Works	m2								
		1			 _	201.200.105	Demolition Services Diversions						
						201.200.115	Grouting						
			001.010			201.200.130	Other						
			201.210	Tunnels & Shafts	m2	201 210 100	Running Tunnel						
						201.210.105	Tunnel Crossover						
						201.210.110							
						201.210.115	Tunnel Adits & Auxiliary structures Station Platform Tunnel						
						201.210.150	Triple Escalator Barrels						
						201.210.160 201.210.165	New Switch room & Mess room						
			201.220	Station Box/Station Structure	m2								
							Substructures						
						201.220.105	Upper Floors						
						201.220.115	Roof						
						201.220.120	Stairs External Walls						
							Mechanical & Electrical works						
			201.230	Ticket Hall	m2								
						201.230.130	Windows & External Doors Internal Walls and Partitions						
						201.230.140	Internal Doors						
						201.230.145	Wall Finishes						
						201.230.150	Floor Finishes Ceiling Finishes						
						201.230.160	Fittings and Furnishings						
						201.230.165	Mechanical & Electrical works						
			201.250	Circulation Areas / Passages	m	201 250 125	Internal Walls and Partitions						
							IIIIGIII WAIIS AND FARIUUIS		I Company				
						201.250.140	Internal Doors						
						201.250.140 201.250.145	Internal Doors Wall Finishes						
						201.250.140 201.250.145 201.250.150	Internal Doors Wall Finishes Floor Finishes						
			201.26	Operations Rooms	m	201.250.140 201.250.145 201.250.150 201.250.155	Internal Doors Wall Finishes						



UNDERGROUND										Programme	Labour Total (£)	Materials Total (£)	Plant Total (£)
RWI Code	Repeatable Work Item	UoM	E Code	Element	UoM	SE Code	Sub-Element	UoM	Coverage Assumptions	WBS Ref			
						201.255.135	Internal Walls and Partitions						
						201.255.140							
						201.255.145							
						201.255.150							
							Ceiling Finishes						
						201.255.165	Mechanical & Electrical works						
			201.26	Staff Facilities/Rooms	m								
							Internal Walls and Partitions						
						201.256.140							
						201.256.145							
						201.256.150	Floor Finishes						
							Ceiling Finishes						
						201.256.160	Fittings and Furnishings						
			201.26	Other Rooms/Areas	m								
							Internal Walls and Partitions						
						201.257.140							
						201.257.145							
						201.257.150	Floor Finishes						
						201.257.155	Ceiling Finishes						
			201.260	Platform	m2								
						201.260.150	Floor Finishes						
			201.270	Station Signage	m2 coverage								
						201.270.100	Station Signage Non-Illuminated						
			201.300	Lifts & Escalators	nr								
						201.300.100	Escalator System						
						201.300.105	Passenger Conveyor						
						201.300.120	Traction Lift						
			201.510	Electrical (AC Only)	m2 coverage								

		Labour Code (from		Labour Rate (from	
ect & Commercial	Labour Type (from the LRM)	LRM)	Shifts (Nr)	LRM £/Shift)	Labour Total
GE 1 resources					
Direction					
Project Director					
Project Manager					
Health & Safety					
Health and Safety Manager					
Health and Safety Tunnels Works Inspectors					
Health and Safety Station Works Inspectors					
Health and Safety Training Officer					
Occupational Heal h (Nurse)					
BBS Trainer					
Commercial & Financial					
Commercial Manager					
Changes Control Manager					
Accountant Manager					
Accountant					
Subcontracts Manager Senior Quantity Surveyor					
Quantity Surveyor					
Procurement Manager					
Responsible procurement Manager					
Buyer					
HR (Office)Manager					
Project Controls Manager					
Planning Manager					
Planner					
Risk Manager					
Reporting & KPI Engineer					
Document Control Manager					
Document Control assistant					
Quality & Assurance					
Assurance Engneer					
B M Manager					
B M Technician					
Cost Control Interface Manager Assistant Cost Engineer					
Environmental Management					
Environmental Manager					
Sustainability Engineer					
Fire Coordinator					
Waste Engineer					
Air Quality Specialist					
Heritage Specialist					
Land Contamination Specialist					
N&V Specialist					
Stakeholder & Interface Manager Manager					
Communications Manager					
Undertakings & Assurance Manager					
Construction					
Head of Construction					
Tunnel Manager					
Tunnel Site Agent SubAgent Facilities (assembly/dissassembly)					
Sub Agent SCL Tunnels Shifts					
Sub Agent Arthur Street Shaft Shifts					
Site Engineers Shifts					
Sub Agent Tunnel Facili ies & Plant					
Tunnel Survey Manager					
Tunnel Surveyor					
Station Works Manager					
Sub Agent KWS Ticket Hall					
Sub Agent LU Works					
Site Engineers					
Utili ies Coordinator					
Sub Agent Utilities					
Station Surveyor					
Enabling Works Manager Possession Manager					
Possession Manager Possession Assistant					
Logistic & Traffic Management					
Logistic & Traffic Manager (in Subcontractor quotation)					
Engineering					
Engineering Manager					
Temporary Works Engineer					
Temporary Works Designer					
SCL Senior Engineer (in Subcontractor quotation)					
SCL Engineer (in Subcontractor quotation)					
SCL Inspector (In Subcontractor quotation)					
Settlement Manager (in Subcontractor quotation)					
Settlement Monitoring Engineer (in Subcontractor quotation)					
I & M Manager (in Subcontractor quotastion)					
Geotechnical Engineer (in Subcontractor quotation)					
Materials Engineer (in Subcontractor quotation)					
Design					
Contractor's Design Manager					

		Labour Code (from		Labour Rate (from	
ect & Commercial	Labour Type (from the LRM)	LRM)	Shifts (Nr)	LRM £/Shift)	Labour Total
GE 2 resources					
Direction					
Project Director					
Project Manager					
Health & Safety					
Health and Safety Manager					
Health and Safety Tunnels Works Inspectors					
Health and Safety Station Works Inspectors					
Health and Safety Training Officer					
Occupational Heal h (Nurse)					
BBS Trainer					
Commercial & Financial					
Commercial Manager					
Changes Control Manager					
Accountant Manager					
Accountant					
Subcontracts Manager Senior Quantity Surveyor					
Quantity Surveyor					
Procurement Manager					
Responsible procurement Manager					
Buyer					
HR (Office)Manager					
Project Controls Manager					
Planning Manager					
Planner					
Risk Manager					
Reporting & KPI Engineer					
Document Control Manager					
Document Control assistant					
Quality & Assurance					
Assurance Engneer					
B M Manager					
B M Technician					
Cost Control Interface Manager Assistant Cost Engineer					
Environmental Management					
Environmental Manager					
Sustainability Engineer					
Fire Coordinator					
Waste Engineer					
Air Quality Specialist					
Heritage Specialist					
Land Contamination Specialist					
N&V Specialist					
Stakeholder & Interface Manager Manager					
Communications Manager					
Undertakings & Assurance Manager					
Construction					
Head of Construction					
Tunnel Manager					
Tunnel Site Agent SubAgent Facilities (assembly/dissassembly)					
Sub Agent SCL Tunnels Shifts					
Sub Agent Arthur Street Shaft Shifts					
Site Engineers Shifts					
Sub Agent Tunnel Facili ies & Plant					
Tunnel Survey Manager					
Tunnel Surveyor					
Station Works Manager					
Sub Agent KWS Ticket Hall					
Sub Agent LU Works					
Site Engineers					
Utili ies Coordinator					
Sub Agent Utilities					
Station Surveyor					
Enabling Works Manager					
Possession Manager Possession Assistant					
Possession Assistant Logistic & Traffic Management					
Logistic & Traffic Management Logistics & Traffic Manager (in Subcontractor quotation)					
Engineering					
Engineering Manager					
Temporary Works Engineer					
Temporary Works Designer					
SCL Senior Engineer (in Subcontractor quotation)					
SCL Engineer (in Subcontractor quotation)					
SCL Inspector (In Subcontractor quotation)					
Settlement Manager (in Subcontractor quotation)					
Settlement Monitoring Engineer (in Subcontractor quotation)					
I & M Manager (in Subcontractor quotastion)					
Geotechnical Engineer (in Subcontractor quotation)					
Materials Engineer (in Subcontractor quotation)					
Design					
Contractor's Design Manager					

	Programme	Labour				i i
Design	rrogramme	Type (from	Labour Code (from LRM)	Shifts (Nr)	Labour Rate (from LRM £/Shift)	Labour Total (£)
Design	WBS Ref	the LRW)	(ITOITI EKWI)	Silits (NI)	LKW Z/SIIII)	Labour Total (£)
	WD3 Rei					
New Northern Line areas	1					-
Cross passageways	1					
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	1					
Adits to existing NL Northbound platform	1					
	1					
	1					
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	1					
PRM lift works	1					í
PRIVILLE WIRS	1					
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Central Line link	1					
Cross passageways	1					
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	1					
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Page 1 of 1 201.105

201.110	Possession Management	Programme WBS Ref	Labour Type (from the LRM)	Labour Code (from LRM)	Shifts (Nr)	Labour Rate (from LRM £/Shift)	Labour Total (£)	Description	Amount	Unit of Measure (UoM)	Rate (£/UoM)	Materials Total (£)	Description	Amount	Unit (day / week / other)	Rate (£/Unit)	Plant Total (£)
201.110.100	Pre-possession meeting																
201.110.100	Site Supervisor																
201.110.100																	
201.110.100 201.110.100	Protection Master Site Person In Charge																
201.110.100	Sile Feison in Charge																
201.110.105	Possession briefings																
201.110.105	Site Supervisor																
201.110.105	Engineer In Charge																
201.110.105																	
201.110.105	Site Person In Charge																
201 110 110	Possession site supervision																
201.110.110	Site Supervisor																
201.110.110																	
201.110.110	Protection Master																
201.110.110																	
201.110.110	LUL Possession Costs																
201.110.110	DLR Possession Costs																
004 440 445																	
201.110.115	Post possession reviews Site Supervisor																
201.110.115	Engineer In Charge																
201.110.115	Protection Master																
201.110.115																	

				Labour Code (from		Labour Rate (from				Unit of Measure					Unit (day / week /		1
01.115 Prelimi	inaries	Programme WBS Ref	Labour Type (from the LRM)	LRM)	Shifts (Nr)	LRM £/Shift)	Labour Total (£)	Description	Amount	(UoM)	Rate (£/UoM)	Materials Total (£)	Description	Amount	other) Rate (£/Unit)	Plant Total (£)	Comments/Qu
01.115.100 Staff (Con:	struction)																
01.115.100 WEA 01.115.100	Phase 2 Architechtural Support Director																
01.115.100 01.115.100	Associate Director Senior Architect	-															į.
01.115.100 01.115.100	Architect Assistant Architect (P2)																1
01.115.100	Assistant Architect (P1)																1
01.115.100 01.115.100 SAUER	Visualiser Phase 2 SCL Supervision & Design support																
01.115.100 01.115.100	SCL Supervision SCL Senior SCL Engineer	-															l
01.115.100	SCL Shift Engineer / Inspector																1
01.115.100 01.115.100	SCL Design Support SCL Design Project Manager																1
01.115.100 01.115.100	SCL Design Manager SCL Senior Design Engineer																
01.115.100 01.115.100	SCL CAD Tecnician SCL Junior Engineer/Modeller																<u> </u>
01.115.100	SCL other																1
01.115.100 KELTBRA' 01.115.100	Y Specialist contractor prelims (Demolition) Specialist contractor prelims (Demolition)																
01.115.100 URS 01.115.100	Construction Support (Design) Design Management	-															<u>l</u>
01.115.100 01.115.100	Design Manager																<u> </u>
01.115.100	Design Coordinator Document Controller																1
01.115.100 01.115.100	CAD/BIM Manager Assurance																l
01.115.100 01.115.100	Assurance Manager Assurance Engineer																<u> </u>
01.115.100	Assurance Tech Support																I
01.115.100 01.115.100	Assurance Specialist MEP																1
01.115.100 01.115.100	Design Coordinator Tunnelling																1
01.115.100 01.115.100	Associate																1
01.115.100	Track Principal																1
01.115.100 01.115.100	Structures Director																1
01.115.100 01.115.100	Senior Eng Eng																1
01.115.100	Assistant Eng																4
01.115.100 01.115.100	Tech Geotechnical																
01.115.100 01.115.100	Director Desk Study and GI	-															<u>l</u>
01.115.100 01.115.100	Principal Senior Engineer																<u> </u>
01.115.100	Asisstant Engineer																1
01.115.100 01.115.100	WBS and Shafts Principal																
01.115.100 01.115.100	Senior Engineer Engineer																<u> </u>
01.115.100	Asisstant Engineer																<u> </u>
01.115.100 01.115.100	Settlement Principal																
01.115.100 01.115.100	Asisstant Engineer PEC	-															<u>l</u>
01.115.100 01.115.100	Principal Utilities																<u> </u>
01.115.100	Principal																4
01.115.100 01.115.100	Streetworks Principal																l
01.115.100 01.115.100	PED Flow Senior Engineer	-															<u> </u>
01.115.100 01.115.100	Facilities Assembly at Arthur Street Stree Foreman																<u> </u>
01.115.100	Operator																1
01.115.100 01.115.100	Assistant Mechanical	-															
01.115.100 01.115.100	Electrical Traffic marshall	-															<u> </u>
01.115.100 01.115.100	Facilities Operation at Arthur Street Foreman																<u> </u>
01.115.100	Operator																1
01.115.100 01.115.100	Fitter XXX to be allocated																<u>l</u>
01.115.100 01.115.100	Facilities Assembly at Whole Block Foreman																1
01.115.100 01.115.100 01.115.100	Operator Assistant																1
01.115.100	Traffic marshall																1
01.115.100 01.115.100	Facilities Operation at Whole Block Foreman																1
01.115.100 01.115.100	Operator Fitter																I
01.115.100	Assistant																1
01.115.100 01.115.100	XXX to be allocated MEP Prelims																1
01.115.100 01.115.100	MEP Design Manager MEP Assistant Engineer / CAD Assistant																1
01.115.100	Electrical Project Manager																1
01.115.100 01.115.100	Commercial Manager Cost Engineers																1
01.115.100 01.115.100	Survey Management Planning Engineer																1
01.115.100	Technical Assurance QUENCH Compliant Manager																l
01.115.100	Method Statement Authors																1
1.115.100 1.115.100	Health & Safety Officer Health & Safety Supervisor																1
1.115.100 1.115.100	QA Manager QA Supervisor																1
1.115.100	Construction Manager																1
01.115.100 01.115.100	Site Person in Charge/ Suppervisor Logistics / Procurment Manager																1
01.115.100 01.115.100	Office Admin Manager & Document Control Commissioning Manager																1
01.115.100 01.115.100	EMC manager																<u>I</u>
01.115.100	Mechanical Project Manager Mechanical Junior Engineer																1
01.115.100 01.115.100	Mechanical Senior Quantity Surveyor Mechanical Construction Manager																1
01.115.100	Mechanical Supervisor Mechanical Co Ordination Manager																I
01.115.100 01.115.100	Fire Project Manager																1
01.115.100 01.115.101	Fire Construction Manager Fire Quantity Surveyor																1
01.115.100	XXX to be allocated Attendant labour																1

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March March March March March March March March March March March March March March March March March March March March March March March March March March March March March March March March March March March March March March March March March March March March March March March March March March March March March March March March March March March March March March March March March March March March March March March March March March March March March March March March March March March March March March March March March March March March March March March March March March March March March March March March March March March March March March March March March March March March March March March March March March March March March March March March March March March March March March March March March March March March March March March March March March March March March March March March March March March March March March March March March March March March March March March March March March March March March March March March March March March March March March March March March March March March March March March March March March March March March March March March March March March March March March March March March March March March March March March March March March March March March March March March March March March March March March March March March March March March March March March March March March March March March March March March March March March March March March March Marc					ode (from		Labour Rate (from								Unit (day / week /			
	201.115 Prelimi	naries		Labour Type (from the LRM)	M)	Shifts (Nr)	LRM £/Shift) Labour Total (£)	Description	Amount	(UoM)	Rate (£/UoM)	Materials Total (£)	Description	Amount		Rate (£/Unit)	Plant Total (£)	Comments/Queries
	201.115.103		1120 1161															Commonto, quontos
	201.115.100	Waste Operative 1 Fit out of Station																
			-															
	201.115.100	Waste Disposal (2no. 12 Yard Skips per week)																
The content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the	201.115.100																	
	201.115.100																	
	201.115.100	Traffic Marshal 2 King William Street Exit																
		Traffic Marshal 3 Internal Unloading area Traffic Marshal e/o when 24/7																
	201.115.100	Traffic Marshal e/o when 24/7																
The content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the	201.115.100	Security Guard Site Welfare Block - Nights																
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Sertify Hulls	201.115.175	At Whole Block Site																
20115.180 Temporary Accommodation Temporary Accommodation Temporary College	201.115.176	Sentry Huts																
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Modifications to 20 Abchurch Security Hut Sec	201.115.180																	
2 storey office & wefare requirement	201.115.180	Modifications to 20 Abchurch																
Funiture (Microwave, Fridge Hydrobol, Tables Chairs, Lockers, Benchs)	201.115.180	2 storey office & welfare requirement																
Storage Container; 30X8 in celetrics Storage Container; 30X8 in celetrics Storage Container; 30X8 in celetrics Storage Container; 30X8 in celetrics Storage Container; 30X8 in celetrics Storage Container; 30X8 in celetrics Storage Container; 30X8 in celetrics Storage Container; 30X8 in celetrics Storage Container; 30X8 in celetrics Storage Container; 30X8 in celetrics Storage Container; 30X8 in celetrics Storage Container; 30X8 in celetrics Storage Container; 30X8 in celetrics Storage Container; 30X8 in celetrics Storage Container; 30X8 in celetrics Storage Container; 30X8 in celetrics Storage Container; 30X8 in celetrics Storage Container; 30X8 in celetrics Storage Container; 30X8 in celetrics Storage Container; 30X8 in celetrics Storage Container; 30X8 in celetrics Storage Container; 30X8 in celetrics Storage Container; 30X8 in celetrics Storage Container; 30X8 in celetrics Storage Container; 30X8 in celetrics Storage Container; 30X8 in celetrics Storage Container; 30X8 in celetrics Storage Container; 30X8 in celetrics Storage Container; 30X8 in celetrics Storage Container; 30X8 in celetrics Storage Container; 30X8 in celetrics Storage Container; 30X8 in celetrics Storage Container; 30X8 in celetrics Storage Container; 30X8 in celetrics Storage Container; 30X8 in celetrics Storage Container; 30X8 in celetrics Storage Container; 30X8 in celetrics Storage Container; 30X8 in celetrics Storage Container; 30X8 in celetrics Storage Container; 30X8 in celetrics Storage Container; 30X8 in celetrics Storage Container; 30X8 in celetrics Storage Container; 30X8 in celetrics Storage Container; 30X8 in celetrics Storage Container; 30X8 in celetrics Storage Container; 30X8 in celetrics Storage Container; 30X8 in celetrics Storage Container; 30X8 in celetrics Storage Container; 30X8 in celetrics Storage Container; 30X8 in celetrics Storage Container; 30X8 in celetrics Storage Container; 30X8 in celetrics Storage Containe	201.115.180	Furniture (Microwave, Fridge, Hydroboil, Tables, Chairs, Lockers, Benchs)															
Modifications to Stairs & kws Station demo	201.115.180	Storage Container; 30'X8' inc electrics																
201.115.185	201.115.180																	
Anthur St (24/7) Welfare		Management Whole Block Wefare																
201.115.195	201.115.185	Arthur St (24/7) Welfare																
201.115.195																		
201.115.195	201.115.195 Communic	ations																
201.115.195 10MB ASDL 2nd bearer Line Rental	201.115.195	IT & Telephone Line Installation (Satellite Cabins & LHA)																
201.115.195 Charge / Support 201.115.195 Telephone Charges	201.115.195 201.115.195	100MB ASDL Line Rental per annum 100MB ASDL 2nd bearer Line Rental																
	201.115.195	Charge / Support																
201.115.205 Teapment & running costs	201.115.195	Telephone Line Installation																

01.115 Prelimi	inaries	Programme	Labour Type (from the LRM)	Labour Code (from LRM)	Shifts (Nr)	Labour Rate (from LRM £/Shift)	Labour Total (£)	Description	Amount	Unit of Measure (UoM)	Rate (£/UoM)	Materials Total (£)	Description	Amount	Unit (day / week / other)	Rate (£/Unit)	Plant Total (£)	
1.115.205	Delivery Management System	WBS Ref																Comments/Que
1.115.205	Client equipment								+	_								4
1.115.205	Photocopier Purchase					<u> </u>				_								4
1.115.205	Copying & Printing Costs								+	_								4
1.115.205	A3 Colour Laser Printers									_								4
1.115.205	A4 Colour Laser Printers A4 Colour Laser Printers								+	_								4
1.115.205	A0 Plotter					<u> </u>				_								4
1.115.205	PC with monitor etc					<u> </u>				_								4
.115.205	Laptop/docking station etc								+	_								4
.115.205	Core CAL/Office 2010/anti virus					<u> </u>				_								4
.115.205	Primavera PPM					<u> </u>				_								4
.115.205	Visio					<u> </u>				_								4
115.205	PDF Writer					<u> </u>				_								4
115.205	Autocad Lite									_								4
115.205	Server & UPS					<u> </u>				_								4
115.205	Video Conferencing inc support									_								4
115.205	Telephone Conferencing								+	_								4
115.205	Projector and Screen								+	_								4
15.205	Networking installation / Decommissioning					-				_								4
115.205	Document Control Software																	A
115.205	Camera					-				_								4
115.205	IT Support/back up					-				_								4
115.205	IT Support/back up								+	_								A
115.205	Stationery and postage					-				_								4
.115.205	Radios (Main Construction Phase)									_								4
115.205	Radios (Walli Construction Phase)					<u> </u>				_								4
115.205	Drawing Costs					<u> </u>				_								4
115.205	TWAO Drawing/docs Costs																	A
115.205	Site Consumables					<u> </u>				_								4
115.205	OH Kit Bag									_								4
115.205	Pre-Induction D&A Test								+	_								A
115.205	Follow Up Full Chain of Custody (1 per 25 tests)					<u> </u>				_								4
115.205	Random Drug & Alcohol Tests (2men per week)									_								4
115.205	Random Drug & Alcohol Tests (2men per week) Random Drug & Alcohol Tests (2men per week)								+	_								A
115.205	Follow Up Full Chain of Custody on Randoms (1 per 25)					<u> </u>				_								4
115.205	For Cause Testing (1 per Month)					<u> </u>				_								4
115.205	First Aid Training - 3 day course (Persons)																	A
15.205	Emergency First Aid Training - 3 day (course (Persons)								_									A
15.205	Occupational Hygienist - 1 visit per month									-								<u> </u>
15.205	Occupational Hygienist - 1 visit per month Occupational Physician - 1 visit per month								_									<u> </u>
115.205	Treatment Room Consumables								_									<u> </u>
115.205	Uploading of Medical record onto CBH Database																	<u> </u>
115.205	Uploading of Medical record onto CBH Database XXX to be allocated																	A
115.205 115.205	Final Cleans									-								<u> </u>
	Final Cleans surance included)																	4

201.120 Risk			Labour Type (from the LRM)	Labour Code (from LRM)	Shifts (Nr)	Labour Rate (from LRM £/Shift)	Labour Total (£)	Description	Amount	Unit of Measure (UoM)	Rate (£/UoM)	Materials Total (£)	Description	Amount	Unit (day / week / other)	Rate (£/Unit)	Plant Total (£)
		WBS Ref															Con
201.120.100 Project risk	,																
201.120.100 Project risk	•																
201.120.110 Estimating	uncertainty						£ -										

										Unit of						
201.200 Enabli	ng Works	Programme	Labour Type (from the LRM)	Labour Code (from LRM)	Shifts (Nr)	Labour Rate (from LRM £/Shift)	Labour Total (£)	Description	Amount	Measure (UoM)	Rate (£/UoM)	Materials Total (£)	Description Amount	Unit (day / week / other)	Rate (£/Unit)	Plant Total (£)
201.200.105 Demolitio	n	WBS Ref										£ -				
201.200.105 201.200.105	Pre demoltion - Service Alteration and Investigation	_														
201.200.105 201.200.105	Building - 12 Nicolas Lane	-														
201.200.105 201.200.105	Carry out Asbestos Refurbishment and Demolition Survey Compile asbestos removal method statement															
201.200.105 201.200.105	Pre-asbestos removal soft strip Asbestos removal (subject to survey findings)															
201.200.105 Enabling	V Complete soft strip															
201.200.105 201.200.105	Hoardings gates & barriers Encapsulated demolition scaffold															
201.200.105 201.200.105	Structural Demolition Temporary works for site access requirements															
201.200.105 201.200.105	Cross Over															
201.200.105	Demolition to Ground Floor															
201.200.105 201.200.105	Demolition of Basement Levels															
201.200.105 201.200.105	Building - 14 Nicholas Lane	-														
201.200.105 201.200.105	Carry out Asbestos Refurbishment and Demolition Survey Compile asbestos removal method statement															
201.200.105	Pre-asbestos removal soft strip															
201.200.105 201.200.105 Enabling																
201.200.105 201.200.105	Hoardings gates & barriers Encapsulated demolition scaffold															
201.200.105 201.200.105	Structural Demolition Temporary works for site access requirements															
201.200.105 201.200.105	Erect Stage 1 Temporary Works Ground Service Gang															
201.200.105																
201.200.105 201.200.105	Demolition to Ground Floor Demolition of Basement Levels															
201.200.105 201.200.105	Building - 10 King Willians Street															
201.200.105 201.200.105	Carry out Asbestos Refurbishment and Demolition Survey	-														
201.200.105 201.200.105	Compile asbestos removal method statement Pre-asbestos removal soft strip															
201.200.105	Asbestos removal (subject to survey findings)															
201.200.105 Enabling 201.200.105	Hoardings gates & barriers	-														
201.200.105 201.200.105	Install Temporary Weathering to Party Wall (20 Abchurch) Encapsulated demolition scaffold	-														
201.200.105 201.200.105	Structural Demolition Temporary works for site access requirements															
201.200.105	Erect Stage 1 Temporary Works															
201.200.105 201.200.105	Demolition to Ground Floor															
201.200.105 201.200.105	Demolition of Basement Levels	-														
201.200.105 201.200.105	Building - 19-20 Abchurch Lane	-														
201.200.105 201.200.105	Carry out Asbestos Refurbishment and Demolition Survey Compile asbestos removal method statement															
201.200.105	Pre-asbestos removal soft strip															
201.200.105 201.200.105 Enabling																
201.200.105 201.200.105	Hoardings gates & barriers Install Temporary Weathering to Party Wall (20 Abchurch)															
201.200.105 201.200.105	Construction Internal Blockwork Walls Encapsulated demolition scaffold	-														
201.200.105 201.200.105	Structural Demolition Temporary works for site access requirements															
201.200.105	Erect Stage 1 Temporary Works															
201.200.105 201.200.105	Demolition to Ground Floor															
201.200.105 201.200.105	Demolition of Basement Levels															
201.200.105 201.200.105	Building - 134-141 Cannon Street	-														
201.200.105 201.200.105	Carry out Asbestos Refurbishment and Demolition Survey Compile asbestos removal method statement															
201.200.105	Pre-asbestos removal soft strip															
201.200.105 201.200.105 Enabling																
201.200.105 201.200.105	Hoardings gates & barriers Install Temporary Weathering to Party Wall (20 Abchurch)															
201.200.105 201.200.105	Encapsulated demolition scaffold Structural Demolition	-														
201.200.105 201.200.105	Temporary works for site access requirements Cross Over															
201.200.105	Erect Stage 1 Temporary Works															
201.200.105 201.200.105	Demolition to Ground Floor															
201.200.105 201.200.105	Demolition of Basement Levels															
201.200.105 201.200.105	Building - 143-149 Cannon Street Carry out Asbestos Refurbishment and Demolition Survey															
201.200.105	Compile asbestos removal method statement															
201.200.105 201.200.105	Pre-asbestos removal soft strip Asbestos removal (subject to survey findings)															
201.200.105 Enabling 201.200.105	Hoardings gates & barriers															
201.200.105 201.200.105	Encapsulated demolition scaffold Structural Demolition															
201.200.105	Temporary works for site access requirements															
201.200.105 201.200.105	Cross Over															
201.200.105 201.200.105	Demolition to Ground Floor Demolition of Basement Levels															
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Divert Comms cables	201.200.115		-														
Existing Southbound Platform Services	201.200.115	Divert Comms cables															
Remove redundant Comms cables & assets	201.200.115	Existing Southbound Platform Services															
Remove redundant Fire alarm cables & assets	201.200.115																
201.200.115 Remove redundant LTG 201.200.115 Remove redundant small power 201.200.115 Breakthrough for New HV Switchroom 201.200.115 Breakthrough for New HV Switchroom	201.200.115 201.200.115	Remove redundant Comms cables & assets Remove redundant Fire alarm cables & assets	1														
201.200.115 Breakthrough for New HV Switchroom	201.200.115	Remove redundant LTG															
	201.200.115		-														
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					Labour Code (from		Labour Rate (from				Unit of Measure					Unit (day / week /		
201.200	Fnablii	ng Works	Programme	Labour Type (from the LRM)	LRM)	Shifts (Nr)	LRM £/Shift)	Labour Total (£)	Description	Amount	(UoM)	Rate (£/UoM)	Materials Total (£)	Description	Amount	other)	Rate (£/Unit)	Plant Total (£)
201.200	Liiubiii	ig Works	WBS Ref	Labour Type (Ironi the Littin)	Litinj	Omits (H)	Littii 2 Oliiti)	Luboui Totai (L)	Description	Amount	(COM)	rtate (2) com)	materials rotal (L)	Description	Amount	other	rtate (2 onit)	r iunit rotar (2)
201.200.115		Install containment																
201.200.115		Divert LV cables																
201.200.115		Divert Comms cables																
201.200.115		ntral Line Enabling Work																
201.200.115		New Platform Adit																
201.200.115		Mechanical																
201.200.115		Attendances and diversion																
201.200.115	E	lectrical																
201.200.115		Install containment																
201.200.115 201.200.115		Divert LV cables Divert comms cables																
201.200.115		Pump Room 3/771 Relocation to LMC																
201.200.115		Install New Pump Room									 							
201.200.115		Mechanical	-								_							
201.200.115		Install pumping equipment									 							
201.200.115		Install pumping equipment Install pumping pipework lines																
201.200.115		Install ventilation services																
201.200.115		Install control panel and controls																
201.200.115		Connect to existing pumping lines																
201.200.115		Commission																
201.200.115		Electrical																
201.200.115		1st fix comms 2nd fix comms																
201.200.115																		
201.200.115		Remove Existing Equipment									_							
201.200.115		Mechanical																
201.200.115		Decommission pumping equipment Remove control and panel									 							
201.200.115		Remove ventilation system																
201.200.115		Remove redundant pipework and pumps																
201.200.115		Isolate and remove water services																
201.200.115		Electrical																
201.200.115		Remove redundant Comms cables																
201.200.115		Remove redundant LV services									-							
201.200.115		Relocation of LV Cables from Pump Room																
201.200.115		Electrical																
201.200.115 201.200.115		Divert/protect existing LV cables																
		Cross Passage Widening																
201.200.115		Mechanical Attendances and diversions									-							
201.200.115		Electrical	-								_							
201.200.115		1st fix Lighting									 							
201.200.115		Install Containment																
201.200.115		1st fix Comms																
201.200.115		2nd fix lighting																
201.200.115		2nd fix comms																
201.200.115		New Connect CER Room																
201.200.115		Mechanical																
201.200.115		Air conditioning System																
201.200.115		Ventilation System									-							
201.200.115		Electrical																
201.200.115		Install containment																
201.200.115 201.200.115		1st fix lighting 1st fix comms																
201.200.115		2nd fix lighting																
201.200.115		2nd fix comms																
201.200.115		Isolate and Remove Existing Equipment																
201.200.115		Mechanical																
201.200.115		Remove existing ventilation systems																

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	1									Unit of							
201.200 Enabli	ina Works	Programme	Labour Type (from the LRM)	Labour Code (from LRM)	Shifts (Nr)	Labour Rate (from LRM £/Shift)	Labour Total (£)	Description	Amount	Measure (UoM)	Rate (£/UoM)	Materials Total (£)	Description	Amount	Unit (day / week / other)	Rate (£/Unit)	Plant Total (£)
		WBS Ref		,	J		(_/		1 1112 1112	(CC)	(2.00)	(2)				(2. 0)	
201.200.115 201.200.115	Electrical Remove redundant LV cables																
201.200.115	Remove redundant LTG, Small Power																
201.200.125	Compensation Grouting Shafts																
201.200.125 201.200.125	Compensation Grouting Preparation, sending and removal of equipment.																
201.200.125	Provision of compensation area from shaft with 2" PVC pipes																
201.200.125 201.200.125	Mix injected in pre-treatment phase Cement grout mix for compensation injection																
201.200.125	Working shift or presence of compensation injection equipment																
201.200.125 201.200.125	Micropiles for sewers protection Preparation, sending and removal of equipment.																
201.200.125 201.200.125	Micropiles for sewers protection Instrumentation and monitoring																
201.200.125	Provide Instruments																
201.200.125 201.200.125	Boreholes Instrument & Monitoring Management																
201.200.125	XXX to be allocated																
201.200.125 201.200.126	Instrument & Monitoring SAI software & maintenance																
201.200.130 Other	D42 Cubusus Strangth oning Works																
201.200.130 201.200.130	P13 Subway Strengthening Works Provisional Allowance as no design																
201.200.130 201.200.130	Off load steels and proprietary fixings Supply and fix steel in proprietary sizes																
201.200.130	Paint steels with Fire resistant paints																
201.200.130	Holding down bolts placed in base plates including drilling and Hilti resin																
201.200.130	Base Plates																
201.200.130 201.200.130	Plyboard encasement Paint Ply board with fire resistant paint																
201.200.130	Misc Fixings																
201.200.130 201.200.130	Subway Closure Hoardings and Pedestrian Management																
201.200.130 201.200.130	Davit Crane Power to the Location																
201.200.130	Clean Subway																
201.200.130 201.200.130	Temporary Timbers Access Platforms																
201.200.130	Allowance for repairs to floor finish																
201.200.130 201.200.130	Task Lighting Grouting and Packing generally																
201.200.130	D6 Lift Deconstruction and Builders Works																
201.200.130 201.200.130	General Items - Access, Task Lighting, lifting Task Lighting																
201.200.130 201.200.130	Access Ladders and Platforms Skips for builders waste (20yd skip mixed waste)																
201.200.130	2-3000 gauge plastic bags for disposal																
201.200.130 201.200.130	Respiritory Equipment Plastic protection screens (prevent dust into station)																
201.200.130	Concrete Pump																
201.200.130	Protection to existing services General items-Soft Strip Brackets, landings, access ladders,																
201.200.130 201.200.130	misc items Remove and dispose of access ladders Ground Level																
201.200.130	Remove and dispose Landings Ground Level																
201.200.130	Remove and dispose of old service brackets and misc fixings to ground level																
201.200.130 201.200.130	Demolish Existing Lift Remove lift and steels from RC lift shaft to skips at ground level																
201.200.130	Demolish Existing Lift Walls																
201.200.130	Break out reinforced concrete in confined spaces with hand tools (25m3) in lift shaft walls																
	Bag rubble and take to Ground level to put into skips via hoists																
201.200.130 201.200.130	in new lift shaft PRM Clean area																
201.200.130	Construct RC Wall to separate Services void from rest of the																
201.200.130	Supply concrete to seperation wall to form service void																
201.200.130 201.200.130	Place concrete supply and lay to Basement walls Rebar 250Kg per m3																
201.200.130	Formwork to basement walls average height 3m																
201.200.130 201.200.130	Kickers Connection to D6 lining shaft (vertical) subject to design																
201.200.130 201.200.130	Construct RC Wall for new Lift Housing Supply concrete supply and lay to Basement walls																
201.200.130	Place concrete supply and lay to Basement walls																
201.200.130 201.200.130	Rebar 250Kg per m3 Formwork to basement walls average height 3m																
201.200.130	Kickers																
201.200.130	Break through existing Lift D6 shaft for lift exit at Nothern Line level 84.8m																
201.200.130 201.200.130	Break out concrete by hand Clear waste to skips																
201.200.130	E/Over saw cutting 350mm deep																
201.200.130 201.200.130	Form Padstones to receive lintel Insert Lintel into existing structure																
201.200.130	Make good edges of shaft																
201.200.130 201.200.130	Metal Works to services void for access Access Ladder Galvanised finish with anti fall frame surround																
	Intermediate landings bespoke shape circa 2.1m2 arc shape,																
201.200.130 201.200.130	assumed galvanised steel MISC																
201.200.130	Concrete tests (1nr per 100m3) Scabble edges of walls or slabs to receive new wall to form																
201.200.130	service void (0.25m wide)																
201.200.130 201.200.130	UTILITIES Arthur Street Utilities diversion																
201.200.130	Whole Block Utilities diversion																
201.200.130 201.200.130	Utilities settlement mitigations Group 1																
201.200.130	Group 2																
201.200.130	Group 3																

LU Cost Estimating System COST FEEDBACK STRUCTURE

				Labour Code (from		Labour Rate (from				Unit of Measure					Unit (day / week /		
201.200 Enablii	ng Works	Programme	Labour Type (from the LRM)		Shifts (Nr)	LRM £/Shift)	Labour Total (£)	Description	Amount	(UoM)	Rate (£/UoM)	Materials Total (£)	Description	Amount	other)	Rate (£/Unit)	Plant Total (£)
		WBS Ref															
201.200.130	Group 4																
201.200.130 201.200.130 201.200.130	Group 5																
201.200.130	Group 6																

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			Labour Code (from		Labour Rate (from				Measure					Unit (day / week /		
201.200 Enabling Works	Programme	Labour Type (from the LRM)	LRM)	Shifts (Nr)	LRM £/Shift)	Labour Total (£)	Description	Amount	(UoM)	Rate (£/UoM)	Materials Total (£)	Description	Amount	other)	Rate (£/Unit)	Plant Total (£)
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Total Control	210.110 210.110	Mobilisation																	
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	210.110	Helper									j			THE PARTY NO		HA			

201.210 ⁻	Funnels & Shafts		Programme	Labour Type (from the LRM)	Labour Code (from LRM)	Shifts (Nr)	Labour Rate (from LRM £/Shift)	Labour Total (£)	Description	Amount	Unit of Measure (UoM)	Rate (£/UoM)	Materials Total (£)	Description	Amount	Unit (day / week / other)	Rate (£/Unit)	Plant Total (£)	
	Co	nstruction	WBS Ref																Comments/Queries
201 210.110	b) Muck away operation															MAI:			ı
201 210.110	Loco/Loader operator											-	7	-	TATHETINE HITTE	min			ı
201 210.110	Underground excavator operator										Name and Address of the Owner, when the Owner, when the Owner, where the Owner, where the Owner, where the Owner, where the Owner, where the Owner, where the Owner, where the Owner, where the Owner, where the Owner, where the Owner, where the Owner, where the Owner, where the Owner, where the Owner, where the Owner, where the Owner, where the Owner, where the Owner, where the Owner, where the Owner, where the Owner, which is the Owner, where the Owner, which is the Owner, which is the Owner, which is the Owner, which is the Owner, which is the Owner, which is the Owner, which is the Owner, which is the Owner, which is the Owner, which is the Owner, which is the Owner, which is the Owner, which is the Owner, which is the Owner, which is the Owner, which is the Owner, which is the Owner, which is the Owner, which is the Owner, which is the Owner, which is the Owner, which is the Owner, which is the Owner, which is the Owner, which is the Owner, which is the Owner, which is the Owner, which is the Owner, which is the Owner, which is the Owner, which is the Owner, which is the Owner, which is the Owner, which is the Owner, which is the Owner, which is the Owner, which is the Owner, which is the Owner, which is the Owner, which is the Owner, which is the Owner, which is the Owner, which is the Owner, which is the Owner, which is the Owner, which is the Owner, which is the Owner, which is the Owner, which is the Owner, which is the Owner, which is the Owner, which is the Owner, which is the Owner, which is the Owner, which is the Owner, which is the Owner, which is the Owner, which is the Owner, which is the Owner, which is the Owner, which is the Owner, which is the Owner, which is the Owner, which is the Owner, which is the Owner, which is the Owner, which is the Owner, which is the Owner, which is the Owner, which is the Owner, which is the Owner, which is the Owner, which is the Owner, which is the Owner, which is the Owner, which is the Owner, which is the Owner, which is the Owner, which is the Owner, which is			- LANGERTHAN	Market				ı
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201 210.110	c) External support Welder											and the second							ł
201 210.110	Electrician																		ł
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01 210.110	Helper																		1
01 210.110	Plant																		1
01 210.110	Minidumper 6t																		ı
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1 210.110	Nozzle man																		ł
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210.110	Transport with pipe																		ı
210.110	Mixer Concrete pump (Meyco Suprema)																		1
1 210.110	SCL Robot Meyco Oruga																		1
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1 210.110	Fiber reinforced shotcrete																		1
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	Tunnel excavation																		ı
210.110	a) Excavation & Primary Lining																		i
1 210.110 1 210.110	a) Excavation & Primary Lining Leading Miner										1		_			<u> </u>	1	 	i
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210.110	Helper													THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE P		MM			ł
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210.110	c) External support																		i
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210.110	a) Excavation & Primary Lining																		ı
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				Labour Type	Labour Code		Labour Rate (from LRM	Labour Total			Unit of		Materials Total		Uni	it (day /			
01.210 T	Funnels & Shafts		Programme	(from the LRM)	(from LRM)	Shifts (Nr)	£/Shift)	(£)	Description	Amount	Measure (UoM)		(£)	Description	Amount week	k / other)	Rate (£/Unit)	Plant Total (£)	
	C	Construction	WBS Ref																Comments/Queries
01 210.110	Underground plant operator										- '								
01 210.110 01 210.110	Mechanical fitter Nozzle man									1	_				AAAAAAA				1
01 210.110	Helper										= -								
01 210.110 01 210.110	b) Muck away operation Loco/Loader operator											1		THE PARTY IN	THE THE WILL	-			1
1 210.110	Underground excavator operator										-	-		Para					
1 210.110	Helper										-								4
01 210.110 01 210.110	c) External support Welder																		
1 210.110	Electrician																		
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210.110 210.110	Minidumper 6t																		4
210.110	Excavator 15-30 t MEWP (Mobile elevated working platform)																		
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210.110 D 210.110	Labour																		
210.110	a) Excavation & Primary Lining																		1
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210.110	Minidumper 6t																		
210.110	MEWP (Mobile elevated working platform)																		1
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210.110	Underground plant operator																		j
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210.110	Plant																		
210.110 210.110	Transport with pipe Mixer																		
210.110	Concrete pump (Meyco Suprema)																		
210.110 210.110	SCL Robot Meyco Oruga Materials																		1
210.110	Foam concrete																		
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210.110	Sprayed concrete to the face Temporary sprayed headwall									 						-			
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210.100	a) Excavation & Primary Lining																		
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	oridorground excavator operator	1							•									ı	i

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Trunch (1968)					Labour Type	Labour Code		Labour Rate (from LRM	Labour Total			Unit of		Materials Total			Unit (dav /		
Company	210						Shifts (Nr)			Description	Amount		Rate (£/UoM)			Amount		Rate (£/Unit)	Plant Total (£
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H	Plant Transport with pipe																	
	Mixer Concrete pump (Meyco Suprema)																	
	SCL Robot Meyco Oruga Materials																	
	Fiber reinforced shotcrete																	
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Helper Plant																	
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Materials																	
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Dumper driver Helper c) External support								i									

210	Tunnels & Shafts			Labour Type (from the LRM)	Labour Code (from LRM)	Shifts (Nr)	Labour Rate (from LRM £/Shift)	Labour Total (£)	Description	Amount	Unit of Measure (UoM)	Rate (£/UoM)	Materials Total (£)	Description	Amount	Unit (day / week / other)	Rate (£/Unit)	Plant Total (£)
	C	Construction	WBS Ref															
0	Electrician																	
	Helper Helper																	-
	Plant																	
	Minidumper 6t																	
	Rino Excavator ITC112																	
	MEWP (Mobile elevated working platform)																	
	Flat bed truck CP-30 (2,3 t) Primary Tunnel lining																	
l	Labour																	
	a) Excavation & Primary Lining																	-
	Leading Miner Underground plant operator																	
	Mechanical fitter																	
	Nozzle man Helper																	
	Plant																	
	Transport with pipe Mixer																	
	Concrete pump (Meyco Suprema)																	
	SCL Robot Meyco Oruga Materials																	
	Fiber reinforced shotcrete																	
	Sprayed concrete to the face																	
	Secondary Tunnel lining Labour																	
	a) Cleaning and shotcreting																	
	Leading Miner Mechanical fitter																	-
	Nozzle man																	
	Helper																	<u> </u>
	b) Muck away operation Loco/Loader operator																	
	Underground excavator operator																	
	Dumper driver Helper																	<u> </u>
	c) External support																	
	Welder Electrician																	
	Helper																	
	Plant																	
	Rino Retro																	
	MEWP (Mobile elevated working platform)																	
	Flat bed truck CP-30 (2,3 t) Transport with pipe			-														
	Mixer																	
	SCL Robot Putzmeister 500 Materials																	
	Sprayed waterproofing																	
	Fiber reinforced shotcrete																	
	RT S Tunnel excavation																	
	Labour																	
	a) Excavation & Primary Lining										£3							
	Leading Miner Underground plant operator											The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s				-		<u> </u>
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	Nozzle man Helper																	<u> </u>
	b) Muck away operation																	
	Loco/Loader operator Underground excavator operator														9			-
	Dumper driver]					TANK		
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	Excavator ITC112																	
	MEWP (Mobile elevated working platform) Flat bed truck CP-30 (2,3 t)			<u> </u>									 					
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	Dumper driver																	
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Underground plant operator Mechanical fitter Nozzle man																			
Nozzle man)	Underground plant operator																	
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				Labour Type	Labour Code		Labour Rate (from LRM	Labour Total			Unit of		Materials Total			Unit (day /		
201.210	Tunnels & Shafts		Programme	(from the LRM)		Shifts (Nr)	£/Shift)	(£)	Description	Amount	Measure (UoM)	Rate (£/UoM)	(£)	Description	Amount		Rate (£/Unit)	Plant Total (
	Con	struction	WBS Ref															
210.100	Plant																	
210.10	Transport with pipe																	
210.10	Mixer																	
1 210.100	Concrete pump (Meyco Suprema) SCL Robot Meyco Oruga																	
1 210.10	Materials																	
1 210.10	Foam concrete																	
1 210.100 1 210.100	Fiber reinforced shotcrete Sprayed concrete to the face													 	+			
1 210.10	Secondary Tunnel lining																	
1 210.10																		
210.10	a) Cleaning and shotcreting Leading Miner																	
210.10	Mechanical fitter																	
210.10	Nozzle man																	
210.100	Helper b) Muck away operation																	
210.10	Loco/Loader operator																	
210.10	Underground excavator operator																	
210.100 210.100	Dumper driver																	
210.100 210.100	Helper c) External support													+				
10.10	Welder																	
210.100 210.100	Electrician Helper																-	
210.100	Plant																	
210.10	Rino																	
210.100 210.100	Retroexcavator MEWP (Mobile elevated working platform)			<u> </u>									 					
210.100	Flat bed truck CP-30 (2,3 t)																	
210.10	Transport with pipe																	
210.100 210.100	Mixer SCL Robot Putzmeister 500			<u> </u>														
210.100 210.100	Materials																	
210.10	Sprayed waterproofing																	
210.10	Fiber reinforced shotcrete																	
210.10	P25 - End Bearing Pile Clash Mitigation General Items - Access, Task Lighting, lifting and																	
210.10	falsework																	
10.10	Task Lighting																	
210.100 210.100	Mobile Access Ladders and Platforms Concrete Pump																	
_ 10.10	Davit Crane (plant to lift steel needle pins in																	
210.10	place)																	
210.10	False work allowance (provisional sum) and form work curved																	
210.10	Load out gang 4 men 7 nights aweek 10																	
210.10	weeks (£25 per hour, £200 per shift each)																	
210.100	3 inch pump Respiritory Equipment																	
210.10	Civils Works Generally																	
	Drill and fix dowels into SCL tunnel lining																	
210.10	600mm bars at 300mm cc in two dimensions embedded 300mm with Hilti Resin or similar																	
_ 10.10	Additional Waterproofing at dowel penetration																	
210.10	areas																	
210.100 210.100	Reinforcement bar 25mm Reinforcement bar 32mm																	
	Structural Steel (assume as 305x305x283) 3nr																	
210.10	4.8m long per pile + extra																	
210.100 210.100	Cut Key holes in existing piles 1.8m dia max Grout to 21 nr steel sections																	
210.10	Ram Jacks 275t each (4 weeks)																	
210.100 210.100	Site visit, and Ram Jack Installation Supply Concrete S3 C35/40N/mm2																	
210.100	Place Concrete C40 S3																	
210.10	Cut piles, piles 1.8 m dia max 5 metre height																	
210.10	Break up concrete with hand tools (removal																	
. 10. 100	assumed picked up with javier/spain quants) Additional Re bar around steel 305 x 305																	
210.10	section (not designed)																	
210.10	Extra over misc concrete to cover any exposed																	
210.100 210.100	steels MISC																	
10.10	Concrete tests (1nr per 100m3)																	
10.10	Grout Testing																	
0.10	North - RT invert Tunnels																	
0.100 0.100	Reinforced In-situ concrete																	
0.10																		
	South - RT invert Tunnels																	
10.10	Reinforced In-situ concrete																	
210.100 210.100																		
210.10	Tunnel crossover																	
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210.10	Tunnel excavation																	
210.10 210.10	Labour																	
210.10	a) Excavation & Primary Lining Leading Miner											1		1				
210.10	Underground plant operator													291550	CH	100		
210.109 210.109	Mechanical fitter Nozzle man																 	
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Tunnels & Shafts	Construction	Programme WBS Pof	Labour Type (from the LRM)	Shifts (Nr)	Labour Rate (from LRM £/Shift)	Labour Total (£)	Description	Amount	Unit of Measure (UoM)	Rate (£/UoM)	Materials Total (£)	Description	Amount w	Unit (day / /eek / other)	Rate (£/Unit)	Plant Total (£)
	Construction	WBS Ref														
Helper											-					
b) Muck away operation																
Loco/Loader operator Underground excavator operator									3		V A	No. of Contract of Contract of Contract of Contract of Contract of Contract of Contract of Contract of Contract of Contract of Contract of Contract of Contract of Contract of Contract of Contract of Contract of Contract of Contract of Contract of Contract of Contract of Contract of Contract of Contract of Contract of Contract of Contract of Contract of Contract of Contract of Contract of Contract of Contract of Contract of Contract of Contract of Contract of Contract of Contract of Contract of Contract of Contract of Contract of Contract of Contract of Contract of Contract of Contract of Contract of Contract of Contract of Contract of Contract of Contract of Contract of Contract of Contract of Contract of Contract of Contract of Contract of Contract of Contract of Contract of Contract of Contract of Contract of Contract of Contract of Contract of Contract of Contract of Contract of Contract of Contract of Contract of Contract of Contract of Contract of Contract of Contract of Contract of Contract of Contract of Contract of Contract of Contract of Contract of Contract of Contract of Contract of Contract of Contract of Contract of Contract of Contract of Contract of Contract of Contract of Contract of Contract of Contract of Contract of Contract of Contract of Contract of Contract of Contract of Contract of Contract of Contract of Contract of Contract of Contract of Contract of Contract of Contract of Contract of Contract of Contract of Contract of Contract of Contract of Contract of Contract of Contract of Contract of Contract of Contract of Contract of Contract of Contract of Contract of Contract of Contract of Contract of Contract of Contract of Contract of Contract of Contract of Contract of Contract of Contract of Contract of Contract of Contract of Contract of Contract of Contract of Contract of Contract of Contract of Contract of Contract of Contract of Contract of Contract of Contract of Contract of Contract of Contract of Contract of Contract of Contract of Contract of Contract of Contract of Contract of				
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Helper																
c) External support Welder													+			
Electrician																
Helper																
Helper Plant																
Minidumper 6t																
Rino																
Excavator 15-30 t																
MEWP (Mobile elevated working platform) Flat bed truck CP-30 (2,3 t)																
Demolition																
Labour																
a) Excavation & Primary Lining Leading Miner													+			
Underground plant operator																
Mechanical fitter																
Nozzle man Helper												 		-		
b) Muck away operation																
Loco/Loader operator																
Underground excavator operator																
Dumper driver Helper													- 			
c) External support																
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MEWP (Mobile elevated working platform)																
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Leading Miner																
Underground plant operator Mechanical fitter													+			
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Helper																
Plant Transport with pipe																
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SCL Robot Putzmeister 500																
Materials Fiber reinforced shotcrete																
Sprayed concrete to the face																
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Transport with pipe																
Mixer SCL Robot Putzmeister 500			_													
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Underground plant operator Mechanical fitter Nozzle man																
Mechanical fitter Nozzle man Helper										-	= //					
Mechanical fitter Nozzle man																

			Labour Type	Labour Code		Labour Rate (from LRM	Labour Total			Unit of		Materials Total			Unit (day /		
Tunnels & Shafts		Programme	(from the LRM)		Shifts (Nr)	£/Shift)	(£)	Description	Amount	Measure (UoM)	Rate (£/UoM)	(£)	Description	Amount	week / other)	Rate (£/Unit)	Plant Total (
	Construction	WBS Ref															
Dumper driver										W 100			-				
Helper c) External support															. —		
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Electrician Helper																	
Helper																	
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Excavator 15-30 t																	
MEWP (Mobile elevated working platform) Flat bed truck CP-30 (2,3 t)																	
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Materials Fiber reinforced shotcrete																	
Sprayed concrete to the face																	
Temporary sprayed headwall Secondary Tunnel lining																	
Labour																	
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Mechanical fitter																	
Nozzle man Helper																	
b) Muck away operation																	
Loco/Loader operator																	
Underground excavator operator Dumper driver																	
Helper																	
c) External support Welder																	
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Retro MEWP (Mobile elevated working platform)																	
Flat bed truck CP-30 (2,3 t)																	
Transport with pipe																	
Mixer SCL Robot Putzmeister 500																	
Materials																	
Sprayed waterproofing Fiber reinforced shotcrete			<u> </u>														
MEP Cross Passage N1																	
Mechanical Cross Passage N1area ready for M&E work																	
Sprinkler Pipe work 1st Fix																	
Pump drainage																	
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nnels & Shafts	onstruction	Programme WBS Ref	Labour Type (from the LRM)	Labour Code (from LRM)	Shifts (Nr)	Labour Rate (from LRM £/Shift)	Labour Total (£)	Description	Amount	Unit of Measure (UoM)	Rate (£/UoM)	Materials Total (£)		Unit (day / week / other)	Rate (£/Unit)	Plant Total (£)
CC1 nel excavation																
abour																
a) Excavation & Primary Lining																
Leading Miner Underground plant operator																
Mechanical fitter Nozzle man																
Nozzie man Helper												= //				
b) Muck away operation																
Loco/Loader operator Underground excavator operator										(C						
Dumper driver																
Helper c) External support												1 1	ĺ	ı —		
Welder Electrician																
Helper																
Helper Plant																
Minidumper 6t																
Rino Excavator 15-30 t																
MEWP (Mobile elevated working platform)																
Flat bed truck CP-30 (2,3 t)																
nolition .abour																
a) Excavation & Primary Lining																
Leading Miner Underground plant operator													+		+	
Mechanical fitter																
Nozzle man Helper															+	
b) Muck away operation																
Loco/Loader operator Underground excavator operator														<u> </u>	 	
Dumper driver																
Helper c) External support																
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Plant																
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Flat bed truck CP-30 (2,3 t) nary Tunnel lining																
Labour																
a) Excavation & Primary Lining Leading Miner															+	
Underground plant operator																
Mechanical fitter Nozzle man																
Helper																
Plant Transport with pipe																
Mixer																
SCL Robot Putzmeister 500 Materials																
Fiber reinforced shotcrete																
Sprayed concrete to the face condary Tunnel lining																
Labour																
a) Cleaning and shotcreting Leading Miner													+		+	
Mechanical fitter																
Nozzle man Helper															-	
b) Muck away operation																
Loco/Loader operator Underground excavator operator															+	
Dumper driver																
Helper																
c) External support Welder															<u> </u>	
Electrician																
Helper Plant																
Rino																
Retro MEWP (Mobile elevated working platform)																
Flat bed truck CP-30 (2,3 t)																
Transport with pipe Mixer			ļ													
SCL Robot Putzmeister 500																
Materials																
Sprayed waterproofing Fiber reinforced shotcrete																
.CP2																
nel excavation Labour																

Τι	innels & Shafts	onstruction		Labour Type (from the LRM)	Shifts (Nr)	Labour Rate (from LRM £/Shift)	Labour Total (£)	Description	Amount	Unit of Measure (UoM)	Materials Total (£)	Description	Amount	Unit (day / week / other)	Rate (£/Unit)	Plant Total (£)
		nistruction	197 CGAA													
	Leading Miner Underground plant operator												2			
	Mechanical fitter											10	N C			
	Nozzle man Helper										= =					
	b) Muck away operation															
	Loco/Loader operator Underground excavator operator									Jun July						
	Dumper driver									M. T. D.						
	Helper c) External support												, ,			
	Welder															
	Electrician Helper															
	Helper															
	Plant Minidumper 6t															
	Rino															
	Excavator 15-30 t MEWP (Mobile elevated working platform)															
	Flat bed truck CP-30 (2,3 t)															
	molition															
	Labour a) Excavation & Primary Lining															
	Leading Miner															
	Underground plant operator Mechanical fitter															
	Nozzle man															
	Helper b) Muck away operation															
	Loco/Loader operator															
	Underground excavator operator Dumper driver															
	Dumper driver Helper															
	c) External support															
	Welder Electrician															
	Helper															
	Helper Plant															
	Minidumper 6t															
	Rino MEWP (Mobile elevated working platform)															
	Flat bed truck CP-30 (2,3 t)															
	mary Tunnel lining Labour															
	a) Excavation & Primary Lining															
	Leading Miner Underground plant operator															
	Mechanical fitter															
	Nozzle man															
	Helper Plant															
	Transport with pipe															
	Mixer SCL Robot Putzmeister 500															
	Materials															
	Fiber reinforced shotcrete Sprayed concrete to the face															
	Temporary sprayed headwall															
	condary Tunnel lining Labour															
	a) Cleaning and shotcreting															
	Leading Miner Mechanical fitter															
	Nozzle man															
	Helper															
	b) Muck away operation Loco/Loader operator															
	Underground excavator operator															
	Dumper driver Helper															
	c) External support															
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	Helper															
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	Rino Retro				 											
	MEWP (Mobile elevated working platform)															
	Flat bed truck CP-30 (2,3 t) Transport with pipe															
	Mixer															
	SCL Robot Putzmeister 500 Materials															
	Sprayed waterproofing															
N * *	Fiber reinforced shotcrete															
IVI	EP Cross Passage N2 Mechanical															
	Cross Passage N2area ready for M&E work	k														
	Sprinkler Pipe work 1st Fix Pump drainage															
	Sprinkler pipework 2nd Fix Electrical															

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				Labour Type	Labour Code		Labour Rate (from LRM	Labour Total			Unit of		Materials Total			Unit (day /			
201.210	Tunnels & Shafts		Programme	(from the LRM)		Shifts (Nr)	£/Shift)	(£)	Description	Amount		Rate (£/UoM)	(£)	Description	Amount		Rate (£/Unit)	Plant Total (£)	
	Co	onstruction	WBS Ref																Comments/Queries
201 210.105	Install Comms Cabling																		ı
201 210.105 201 210.105	Ist Fix lighting Ist Fix Comms Assets																		
201 210.105	2nd Fix Lighting																		ı
201 210.105	2nd Fix Comms Assets																		ı
201 210.105	2nd Fix Fire alarm assets																		ı
201 210.105 201 210.105	Testing & Commissioning NI CD2																		
	Tunnel excavation																		
201 210.105	Labour																		
201 210.105	a) Excavation & Primary Lining												I .						ı
201 210.105 201 210.105	Leading Miner Underground plant operator										1				The same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the sa				
201 210.105	Mechanical fitter										j			100					ı
201 210.105 201 210.105	Nozzle man												-						ı
201 210.105	Helper b) Muck away operation																		ı
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201 210.105	Helper																		ı
201 210.105	c) External support																		ı
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201 210.105	Helper											<u> </u>							
201 210.105	Helper																		
201 210.105 201 210.105	Plant Minidumper 6t																		
201 210.105	Rino																		
201 210.105 201 210.105	Excavator 15-30 t																		
201 210.105	MEWP (Mobile elevated working platform) Flat bed truck CP-30 (2,3 t)											1	 						
201 210.105	Demolition																		
201 210.105 201 210.105	Labour a) Excavation & Primary Lining																		
201 210.105	Leading Miner																		
201 210.105	Underground plant operator																		
201 210.105 201 210.105	Mechanical fitter Nozzle man										-	<u> </u>							
201 210.105	Helper																		ı
201 210.105	b) Muck away operation																		
201 210.105 201 210.105	Loco/Loader operator Underground excavator operator																		ı
201 210.105	Dumper driver																		
201 210.105	Helper																		
201 210.105 201 210.105	c) External support Welder																		
201 210.105	Electrician																		ı
201 210.105 201 210.105	Helper Helper																		
201 210.105																			
201 210.105	Minidumper 6t																		ı
201 210.105 201 210.105	Rino MEWP (Mobile elevated working platform)			-															
201 210.105	Flat bed truck CP-30 (2,3 t)																		
201 210.105 201 210.105	Primary Tunnel lining																		
201 210.105	a) Excavation & Primary Lining																		
201 210.105	Leading Miner																		
201 210.105 201 210.105	Underground plant operator Mechanical fitter												\vdash						
201 210.105	Nozzle man											1	 						
201 210.105	Helper																		
201 210.105 201 210.105	Plant Transport with pipe																		
201 210.105	Mixer																		
201 210.105	SCL Robot Putzmeister 500																		
201 210.105 201 210.105	Materials Fiber reinforced shotcrete																		
201 210.105	Sprayed concrete to the face																		
201 210.105	Temporary sprayed headwall Secondary Tunnel lining																		
201 210.105	Labour																		
201 210.105	a) Cleaning and shotcreting																		
201 210.105 201 210.105	Leading Miner Mechanical fitter											1	 						
201 210.105	Nozzle man											<u> </u>	<u> </u>						
201 210.105	Helper																		
201 210.105 201 210.105	 b) Muck away operation Loco/Loader operator 											1							
201 210.105	Underground excavator operator																		
201 210.105	Dumper driver																		
201 210.105 201 210.105	Helper c) External support																		
201 210.105	Welder																		
201 210.105 201 210.105	Electrician											1							
201 210.105	Helper Plant																		
201 210.105	Rino																		
201 210.105 201 210.105	Retro MEWP (Mobile elevated working platform)							 				1							
201 210.105	Flat bed truck CP-30 (2,3 t)																		
201 210.105	Transport with pipe																		
201 210.105	Mixer				I		<u> </u>	<u> </u>	<u> </u>	L	<u> </u>	1	I						

					Labour Rate												1
Γunnels & Shafts		Programme	Labour Type (from the LRM)	Shifts (Nr)	(from LRM £/Shift)	Labour Total (£)	Description	Amount	Unit of Measure (UoM)	Rate (£/UoM)	Materials Total (£)	Description	Amount	Unit (day / week / other)	Rate (£/Unit)	Plant Total (£)	Commonto/S
	nstruction	WBS Ref															Comments/Q
SCL Robot Putzmeister 500 Materials																	1
Sprayed waterproofing																	1
Fiber reinforced shotcrete MEP Cross Passage N3																	
Mechanical																	
Cross Passage N3 area ready for M&E work Sprinkler Pipe work 1st Fix	K 																
Pump drainage																	
Sprinkler pipework 2nd Fix Electrical																	
Install CMS Install Comms Cabling																	
Ist Fix lighting																	
Ist Fix Comms Assets 2nd Fix Lighting																	
2nd Fix Comms Assets																	
2nd Fix Fire alarm assets Testing & Commissioning																	
NLCP4																	
Tunnel excavation																	4
a) Excavation & Primary Lining																	<u> </u>
Leading Miner Underground plant operator													2				1
Mechanical fitter												19 111	I G				1
Nozzle man Helper											= 7						1
b) Muck away operation																	1
Loco/Loader operator Underground excavator operator									3	3	*						1
Dumper driver																	4
Helper c) External support											1						1
Welder Electrician																	1
Helper																	
Helper Plant																	1
Minidumper 6t																	
Rino Excavator 15-30 t																	
MEWP (Mobile elevated working platform)																	
Flat bed truck CP-30 (2,3 t) Demolition																	
Labour																	4
a) Excavation & Primary Lining Leading Miner																	1
Underground plant operator																	1
Mechanical fitter Nozzle man																	j
Helper b) Muck away operation																	•
Loco/Loader operator]
Underground excavator operator Dumper driver																	1
Helper																	1
c) External support Welder																	1
Electrician																	1
Helper Helper]
Plant Minidumper 6t																	
Rino																	1
MEWP (Mobile elevated working platform) Flat bed truck CP-30 (2,3 t)																	
Primary Tunnel lining																	4
Labour a) Excavation & Primary Lining]
Leading Miner Underground plant operator																	1
Mechanical fitter																	
Nozzle man Helper																	1
Plant																	
Transport with pipe Mixer			-														
SCL Robot Putzmeister 500																	1
Materials Fiber reinforced shotcrete																	1
Sprayed concrete to the face																	1
Temporary sprayed headwall Secondary Tunnel lining																	
Labour																	4
a) Cleaning and shotcreting Leading Miner]
Mechanical fitter Nozzle man																	1
Helper																	
b) Muck away operation	1																1
Loco/Loader operator																	

				Labour Type	Labour Code		Labour Rate (from LRM	Labour Total			Unit of		Materials Total			Unit (day /		
1.210	Γunnels & Shafts		Programme	(from the LRM)		Shifts (Nr)	£/Shift)	(£)	Description	Amount	Measure (UoM)	Rate (£/UoM)	(£)	Description	Amount		Rate (£/Unit)	Plant Total (
	Co	onstruction	WBS Ref															
105	Helper																	
.105 .105	c) External support Welder												-					
105	Electrician																	
105 105	Helper Plant																	
05	Rino																	
05 05	Retro MEWP (Mobile elevated working platform)																	
105	Flat bed truck CP-30 (2,3 t)																	
105 105	Transport with pipe Mixer																	
105	SCL Robot Putzmeister 500																	
05 05	Materials Sprayed waterproofing																	
05	Fiber reinforced shotcrete																	
5 5	Cross Passage N4 Mechanical																	
)5	Cross Passage N4 area ready for M&E work																	
05 05	Ventilation Services & Fire rated duct Sprinkler Pipe work 1st Fix							-										
5	Air Conditioning Pipework																	
15 15	Fire hydrant Pipework Condenser Pipework																	
)5	Pump drainage																	
)5)5	Sprinkler pipework 2nd Fix Electrical																	
05	Install CMS																	
05 05	Install Comms Cabling Ist Fix lighting																	
)5	Ist Fix Comms Assets																	
)5)5	2nd Fix Lighting 2nd Fix Comms Assets																	
05	2nd Fix Fire alarm assets																	
)5)5	Testing & Commissioning NL CC2																	
	unnel excavation																	
	Labour																	
	a) Excavation & Primary Lining Leading Miner												<u> </u>					
	Underground plant operator										Į			-	THE CO			
5	Mechanical fitter Nozzle man							-			†				D. A. T.	_		
5	Helper										Į		-					
)5)5	b) Muck away operation Loco/Loader operator										-		7			_		
)5	Underground excavator operator											C				_		
)5)5	Dumper driver Helper											25)				-		
05	c) External support													_				
)5)5	Welder Electrician																	
5	Helper																	
	Helper Plant																	
	Minidumper 6t																	
5	Rino Excavator 15-30 t			L														
5	MEWP (Mobile elevated working platform)																	
ı	Flat bed truck CP-30 (2,3 t) Demolition																	
5 5	Labour																	
5	a) Excavation & Primary Lining Leading Miner																	
)5)5	Underground plant operator Mechanical fitter																	
5	Nozzle man																	
5	Helper																	
)5)5	b) Muck away operation Loco/Loader operator																	
5 5	Underground excavator operator Dumper driver																	
5	Helper Helper																	
	c) External support																	-
	Welder Electrician																	
	Helper																	-
l	Helper Plant																	
	Minidumper 6t																	
l	Rino MEWP (Mobile elevated working platform)			<u> </u>														
l.	Flat bed truck CP-30 (2,3 t)																	
ľ	Primary Tunnel lining Labour																	
ľ	a) Excavation & Primary Lining																	
5	Leading Miner Underground plant operator																	
05	Mechanical fitter																	
05 05	Nozzle man Helper																	
05	Plant																	
05 05	Transport with pipe Mixer																	
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				Labour Type	Labour Code		Labour Rate (from LRM	Labour Total			Unit of		Materials Total			Unit (day /		
10 Tu	ınnels & Shafts	nstruction	Programme	(from the LRM)	(from LRM)	Shifts (Nr)	£/Shift)	(£)	Description	Amount	Measure (UoM)	Rate (£/UoM)	(£)	Description	Amount	week / other)	Rate (£/Unit)	Plant Total (£)
	Co	nstruction	WBS Ref															
105	SCL Robot Putzmeister 500																	
05	Materials Fiber reinforced shotcrete																	
5	Sprayed concrete to the face																	
	Temporary sprayed headwall condary Tunnel lining																	
	Labour																	
	a) Cleaning and shotcreting Leading Miner																	
	Mechanical fitter		[]															
5	Nozzle man		[]															
	Helper b) Muck away operation			4														
	Loco/Loader operator																	
	Underground excavator operator Dumper driver		[]															
5	Helper																	
	c) External support Welder																	
	Electrician		1															
	Helper			4														
	Plant Rino																	
	Retro																	
5	MEWP (Mobile elevated working platform) Flat bed truck CP-30 (2,3 t)			 								 						
5	Transport with pipe																	
5	Mixer																	
5 5	SCL Robot Putzmeister 500 Materials																	
;	Sprayed waterproofing																	
NII	Fiber reinforced shotcrete LCA																	
	LUA																	
,	Labour																	
	a) Excavation & Primary Lining										_							
	Leading Miner Underground plant operator		1	 							=							
	Mechanical fitter		[]								-			19/13	200			
	Nozzle man Helper		1	<u> </u>							=		-					
	b) Muck away operation											The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s						
	Loco/Loader operator		1												A STATE OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PAR			
	Underground excavator operator Dumper driver		1													-		
	Helper											5						
	c) External support Welder												 	-		<u> </u>		
	Electrician																	
	Helper																	
	Helper Plant																	
	Minidumper 6t																	
	Rino Excavator 15-30 t			 														
	MEWP (Mobile elevated working platform)																	
De	Flat bed truck CP-30 (2,3 t)																	
	Labour																	
	a) Excavation & Primary Lining																	
	Leading Miner Underground plant operator																	
	Mechanical fitter																	
	Nozzle man Helper																	
	b) Muck away operation																	
	Loco/Loader operator																	
	Underground excavator operator Dumper driver																	
	Helper																	
	c) External support Welder																	
	Electrician																	
	Helper																	
	Helper Plant																	
	Minidumper 6t																	
	Rino MEWP (Mobile elevated working platform)			 														
	Flat bed truck CP-30 (2,3 t)																	
	mary Tunnel lining																	
	Labour a) Excavation & Primary Lining																	
5	Leading Miner	1																
;	Underground plant operator																	
5 5																		
5 5 5 5	Underground plant operator Mechanical fitter Nozzle man Helper																	
5 5 5 5 5 5	Underground plant operator Mechanical fitter Nozzle man Helper Plant																	
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201 210.105	Underground excavator operator																		
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				Labour Type	Labour Code		Labour Rate (from LRM	Labour Total			Unit of		Materials Total			Unit (day /			
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Tunnel excavation Labour a) Excavation & Primary Lining Leading Miner Underground plant operator Mechanical fitter Nozzle man Helper	nstruction	Programme WBS Ref	Labour Type (from the LRM)	Labour Code (from LRM)	Shifts (Nr)	Labour Rate (from LRM £/Shift)	Labour Total	December 1		Unit of		Materials Total			Unit (day /		
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unnels & Shafts			Labour Type (from the LRM)	Labour Code (from LRM)	Shifts (Nr)	Labour Rate (from LRM £/Shift)	Labour Total (£)	Description	Amount	Unit of Measure (UoM)	Rate (£/UoM)	Materials Total (£)	Description	Amount	Unit (day / week / other)	Rate (£/Unit)	Plant Total (£)	
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1.210 Tunnels & Shafts		Labour Type (from LRM)	Shifts (Nr)	Labour Rate (from LRM £/Shift)	Labour Total (£)	Description	Amount	Unit of Measure (UoM)	Materials Total (£)	Description	Unit (day / reek / other) Ra	te (£/Unit) P	Plant Total (£)	Comments/Queries
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01.210 T	unnels & Shafts	nstruction	Programme WBS Ref	Labour Type (from the LRM)	Labour Code (from LRM)	Shifts (Nr)	Labour Rate (from LRM £/Shift)	Labour Total (£)	Description	Amount	Unit of Measure (UoM)		Materials Total (£)	Description	Amount	Unit (day / week / other)	Rate (£/Unit)	Plant Total (£)
	Co	ou doud!!	DO IVEI															
210.120	Dumper driver																	
10.120 10.120	Helper c) External support											-						
0.120	Welder																	
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.120	Plant																	
120	Minidumper 6t																	
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120	Underground plant operator																	
120	Mechanical fitter																	
120 120	Nozzle man Helper																	
120	Plant																	
20	Transport with pipe																	
20	Mixer			<u> </u>														
120 120	SCL Robot Putzmeister 500 Materials																	
120	Fiber reinforced shotcrete																	
120	Sprayed concrete to the face																	
	econdary Tunnel lining Labour																	
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120	Leading Miner																	
120 120	Mechanical fitter Nozzle man																	
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120	b) Muck away operation																	
.120	Loco/Loader operator																	
120	Underground excavator operator Dumper driver																	
20	Helper																	
20	c) External support																	
120 120	Welder Electrician																	
20	Helper																	
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120 120	Rino MEWP (Mobile elevated working platform)																	
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120	Transport with pipe																	
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20	Nozzle man												7	1				
120	Helper												-				-	
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120	Underground excavator operator																	
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)	Transport with pipe	1			<u> </u>				l			<u> </u>						

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04 240 7	unnels & Shafts		D	Labour Type (from the LRM)	Labour Code	Chifte (No.)	(from LRM	Labour Total	Description		Unit of	Data (C/UaN)	Materials Total			Unit (day /	Data (Climit)	Plant Tatal (C)	
01.210		nstruction	Programme WBS Ref	(from the LRM)	(from LRM)	Shifts (Nr)	£/Shift)	(£)	Description	Amount	Measure (UoM)	Rate (£/UOM)	(£)	Description	Amount	week / otner)	Rate (£/Unit)	Plant Total (£)	Comments/Queries
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01 210.120	SCL Robot Meyco Oruga																		
01 210.120 01 210.120	Materials																		
01 210.120	Fiber reinforced shotcrete Sprayed concrete to the face																		
01 210.120	Temporary sprayed headwall																		
1 210.120 F																			
	unnel excavation																		
01 210.120 01 210.120	a) Excavation & Primary Lining																		
1 210.120	Leading Miner										1	•	•						
1 210.120	Underground plant operator										1			~	The Name of Street, or other party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Pa	-	-		
1 210.120 1 210.120	Mechanical fitter Nozzle man										†			7	Na Maria				
1 210.120	Helper										1		-						
1 210.120 1 210.120	b) Muck away operation Loco/Loader operator																+		
1 210.120	Underground excavator operator										550					_	1		
1 210.120	Dumper driver															_			
1 210.120 1 210.120	Helper c) External support															_			
1 210.120	Welder																		
1 210.120	Electrician																1		
210.120	Helper Helper										 						1	1	
1 210.120	Plant																		
1 210.120	Minidumper 6t				 						<u> </u>								
1 210.120 1 210.120	Rino Excavator 15-30 t										1								
1 210.120	MEWP (Mobile elevated working platform)																		
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210.120	a) Excavation & Primary Lining																		
210.120 210.120	Leading Miner Underground plant operator										+						+	+	
210.120	Mechanical fitter																		
210.120	Nozzle man																		
210.120 210.120	Helper b) Muck away operation										1						+		
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210.120	Underground excavator operator										-						-		
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210.120	Rino																		
210.120	MEWP (Mobile elevated working platform)																		
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210.120	Labour																		
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210.120	b) Muck away operation																	<u></u> _	
210.120	c) External support																		
210.120 210.120	Plant Transport with pipe																		
210.120	Mixer																		
210.120	SCL Robot Putzmeister 500																		
210.120 210.120	Materials Fiber reinforced shotcrete																		
210.120	Sprayed concrete to the face																		
210.120 S 210.120	econdary Tunnel lining Labour																		
210.120	a) Cleaning and shotcreting																		
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210.120	Retro																		
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1 210.120	Transport with pipe																		

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201.210	Tunnels & Shafts		Programme	Labour Type (from the LRM	Labour Code) (from LRM)	Shifts (Nr)	Labour Rate (from LRM £/Shift)	Labour Total (£)	Description	Amount	Unit of Measure (UoM)	Rate (£/UoM)	Materials Total (£)	Description	Amount	Unit (day / week / other)	Rate (£/Unit)	Plant Total (£)	
	Со	onstruction	WBS Ref																Comments/Queries
201 210.120	Mixer																		
201 210.120 201 210.120	SCL Robot Putzmeister 500 Materials																		
201 210.120 201 210.120	Sprayed waterproofing																		
	Fiber reinforced shotcrete PT ES Enlarg																		
201 210.120	Tunnel excavation																		
201 210.120 201 210.120	Labour a) Excavation & Primary Lining																		
201 210.120	Leading Miner														-				
201 210.120 201 210.120	Underground plant operator Mechanical fitter										-				TO A LOCAL				
201 210.120	Nozzle man										1		7						
201 210.120 201 210.120	Helper b) Muck away operation																	+	
201 210.120	Loco/Loader operator																		
201 210.120 201 210.120	Underground excavator operator Dumper driver																		
201 210.120	Helper											5							
201 210.120 201 210.120	c) External support Welder																		
201 210.120 201 210.120	Electrician																		
201 210.120	Helper Helper																		
201 210.120	Plant Minidumper 6t																		
201 210.120 201 210.120	Minidumper 6t Rino																		
201 210.120 201 210.120	Excavator 15-30 t MEWP (Mobile elevated working platform)																		
201 210.120	Flat bed truck CP-30 (2,3 t)																		
201 210.120 201 210.120																			
201 210.120	a) Excavation & Primary Lining																		
201 210.120 201 210.120	Leading Miner Underground plant operator																		
201 210.120	Mechanical fitter																		
201 210.120 201 210.120	Nozzle man Helper																		
201 210.120	b) Muck away operation																		
201 210.120 201 210.120	Loco/Loader operator Underground excavator operator																		
201 210.120 201 210.120	Dumper driver Helper																		
201 210.120	c) External support																		
201 210.120 201 210.120	Welder Electrician				-													-	
201 210.120	Helper																		
201 210.120 201 210.120	Helper Plant																		
201 210.120	Minidumper 6t																		
201 210.120 201 210.120	Rino MEWP (Mobile elevated working platform)				+														
201 210.120	Flat bed truck CP-30 (2,3 t)																		
201 210.120 201 210.120	Primary Tunnel lining Labour																		
201 210.120 201 210.120	a) Excavation & Primary Lining																		
201 210.120	Leading Miner Underground plant operator																		
201 210.120 201 210.120	Mechanical fitter Nozzle man																		
201 210.120	Helper																		
201 210.120 201 210.120	Plant Transport with pipe																		
201 210.120	Mixer																		
201 210.120 201 210.120	SCL Robot Putzmeister 500 Materials																		
201 210.120	Fiber reinforced shotcrete																		
201 210.120 201 210.120	Sprayed concrete to the face Secondary Tunnel lining																		
201 210.120 201 210.120	Labour																		
201 210.120	a) Cleaning and shotcreting Leading Miner																		
201 210.120 201 210.120	Mechanical fitter Nozzle man																		
201 210.120	Helper																		
201 210.120 201 210.120	b) Muck away operation Loco/Loader operator																		
201 210.120	Underground excavator operator																		
201 210.120 201 210.120	Dumper driver Helper																		
201 210.120	c) External support																		
201 210.120 201 210.120	Welder Electrician																		
201 210.120	Helper																		
201 210.120 201 210.120	Plant Rino																		
201 210.120	Retro																		
201 210.120 201 210.120	MEWP (Mobile elevated working platform) Flat bed truck CP-30 (2,3 t)																		
201 210.120	Transport with pipe																		
201 210.120 201 210.120	Mixer SCL Robot Putzmeister 500																		
201 210.120 201 210.120	Materials																		
201 210.120	Sprayed waterproofing	1			1			<u> </u>						I	<u> </u>	<u> </u>	I	1	

Tunnels & Shafts	Construction	Programme WBS Ref	Labour Type (from the LRM)	Labour Code (from LRM)	Shifts (Nr)	Labour Rate (from LRM £/Shift)	Labour Total (£)	Description	Amount	Unit of Measure (UoM)	Materials Total (£)	Description	Amount	Unit (day / week / other)	Rate (£/Unit)	Plant Total (£)
	CONSTRUCTION	VVD3 Kei														
Fiber reinforced shotcrete PT T1 Enlarg																
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Labour																
a) Excavation & Primary Lining Leading Miner										'						
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0	Fire hydrant installation 1st fix Drainage services																	
20	Pump drainage south tunnel + North tunnel sump																	
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20	Electrical																	
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				Labour Type	Labour Code		Labour Rate (from LRM	Labour Total			Unit of		Materials Total			Unit (day /		
1.210	unnels & Shafts		Programme	(from the LRM)	(from LRM)	Shifts (Nr)	£/Shift)	(£)	Description	Amount		Rate (£/UoM)		Description	Amount		Rate (£/Unit)	Plant Total (
	C	Construction	WBS Ref															
10.150	Plant																	
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	rimary Tunnel lining																	
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)	Fiber reinforced shotcrete																	
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				Labour Type	Labour Code		Labour Rate (from LRM	Labour Total			Unit of		Materials Total			Unit (day /			
10	Tunnels & Shafts		Programme	(from the LRM)		Shifts (Nr)	£/Shift)	(£)	Description	Amount	Measure (UoM)		(£)	Description	Amount		Rate (£/Unit)	Plant Total (£)	
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.150	Transport with pipe																		
.150	Mixer																		
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.150	b) Muck away operation																		
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.150 .150	Flat bed truck CP-30 (2,3 t) Transport with pipe																		
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	Excavation & Primary Lining																	
	Leading Miner Underground plant operator									-								
	Mechanical fitter																	
	Nozzle man																	
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	Temporary sprayed headwall																	
econo Lab	dary Tunnel lining																	
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	Brokk 330 MEWP (Mobile elevated working platform)			-					-									
	Flat bed truck CP-30 (2,3 t)																	
	Transport with pipe Mixer								-									
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	Sprayed waterproofing Fiber reinforced shotcrete							-								-		+
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aj	Leading Miner																	
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b)	Muck away operation Loco/Loader operator										-							
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	Flat bed truck CP-30 (2,3 t)																	
Primar	y Tunnel lining																	

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				Labour Ty	pe Labour Code		Labour Rate (from LRM	Labour Total			Unit of		Materials Total			Unit (day /			
01.210	Γunnels & Shafts	onstruction	Programme WBS Ref	(from the Li	RM) (from LRM)	Shifts (Nr)	£/Shift)	(£)	Description	Amount	Measure (UoM)	Rate (£/UoM)	(£)	Description	Amount	week / other)	Rate (£/Unit)	Plant Total (£)	Comments/Queries
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1 210.150 1 210.150	Labour a) Excavation & Primary Lining																		
1 210.150	Leading Miner																		
210.150	Underground plant operator																		
1 210.150 1 210.150	Mechanical fitter Nozzle man																+		
1 210.150	Helper																		
1 210.150 1 210.150	Plant Transport with pine																		
1 210.150	Transport with pipe Mixer							<u> </u>		<u> </u>	<u> </u>								
210.150	SCL Robot Putzmeister 500																		
1 210.150 1 210.150	Materials Foam concrete																		
210.150	Fiber reinforced shotcrete																+		
210.150	Sprayed concrete to the face																		
210.150	Secondary Tunnel lining Labour																		
210.150	a) Cleaning and shotcreting																		
210.150	Leading Miner																		
210.150 210.150	Mechanical fitter Nozzle man				_						-								
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210.150 210.150	c) External support Welder									+	+							+	1
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210.150 210.150	Helper Plant																		1
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210.150 210.150	MEWP (Mobile elevated working platform) Flat bed truck CP-30 (2,3 t)			<u> </u>				-		+	+								
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10	Tunnels & Shafts		Programme	Labour Type (from the LRM)		Shifts (Nr)	Labour Rate (from LRM £/Shift)	Labour Total (£)	Description	Amount	Unit of Measure (UoM)	Rate (6/LloM)	Materials Total	Description	Amount	Unit (day /	Rate (£/Unit)	Plant Total #
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	Concrete pump (Meyco Suprema)																	
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	Fiber reinforced shotcrete																	
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	Secondary Tunnel lining Labour																	
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	Helper																	
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	Loco/Loader operator Underground excavator operator												-					
	Dumper driver																	
	Helper																	
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	Helper																	
	Plant																	
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١	MEWP (Mobile elevated working platform)												<u> </u>					
١	Flat bed truck CP-30 (2,3 t)									· · · · · · · · · · · · · · · · · · ·								
١	Transport with pipe Mixer							 					-					
	SCL Robot Putzmeister 500			-														
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l	Escalator barrel NL to CL ready for M&E work	(S																
ı	1st & 2nd fix ductwork Fire Rated Insulation																	
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	Summala 0 Ohaff			Labour Type	Labour Code		Labour Rate (from LRM	Labour Total			Unit of		Materials Total			Unit (day /		
, 1	Tunnels & Shafts	Construction	Programme WBS Ref	(from the LRM)	(from LRM)	Shifts (Nr)	£/Shift)	(£)	Description	Amount	Measure (UoM)	Rate (£/UoM)	(£)	Description	Amount	week / other) R	Rate (£/Unit)	Plant Total (£)
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	c) External support Welder																	
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	Minidumper 6t Rino								 									
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	Mixer Concrete pump (Meyco Suprema)																	
	SCL Robot Meyco Oruga																	
ŀ	Materials Foam concrete																	
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5	Sprayed concrete to the face secondary Tunnel lining																	
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ĺ	Mechanical fitter Nozzle man															+		
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	Transport with pipe Mixer																	
ŀ	SCL Robot Putzmeister 500 Materials																	
ľ	Forepoling D>88.9mm																	
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10 Tu	nnels & Shafts	Construction	Programme WBS Ref	Labour Type (from the LRM)	Labour Code (from LRM)	Shifts (Nr)	Labour Rate (from LRM £/Shift)	Labour Total (£)	Description	Amount	Unit of Measure (UoM)		Materials Total (£)	Description	Amount	Unit (day / week / other)	Rate (£/Unit)	Plant Total (£)
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	c) External support Welder																	
	Electrician																	
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	ondary Tunnel lining abour																	
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	Nozzle man																	
	Helper b) Muck away operation																	
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	Rino Retro																	
	MEWP (Mobile elevated working platform)																	
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	SCL Robot Putzmeister 500 laterials																	
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	a) Excavation & Primary Lining Leading Miner										ı							
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	b) Muck away operation Loco/Loader operator															-		
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Fire Rated Insulation												
Sprinkler Pipework 1st Fix												
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unnels & Shafts	_		Labour Type (from the LRM)	Labour Code (from LRM)	Shifts (Nr)	Labour Rate (from LRM £/Shift)	Labour Total (£)	Description	Amount	Unit of Measure (UoM)	Rate (£/UoM)	Materials Total (£)	Description	Amount	Unit (day / week / other)	Rate (£/Unit)	Plant Total (£)	
	onstruction	WBS Ref																Comments/Q
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a) Excavation & Primary Lining																		
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Nozzle man																		
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b) Muck away operation Loco/Loader operator																		
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Dumper driver Helper																		
c) External support																		
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Transport with pipe Mixer																		
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Helper																		
c) External support Welder																		
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Helper Plant																		
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Flat bed truck CP-30 (2,3 t)																		
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c) External support																		
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01.210	Tunnels & Shafts		Programme	(from the LRM)	(from LRM)	Shifts (Nr)	£/Shift)	(£)	Description	Amount) Rate (£/UoM)		Description	Amount	week / other)	Rate (£/Unit)	Plant Total (£)	
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01 210.160	Underground plant operator Mechanical fitter																		
01 210.160 01 210.160	Nozzle man																		
01 210.160	Helper																		
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01 210.160	Dumper driver																		
01 210.160	Helper											-							
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210.160	Mechanical fitter																		
210.160	Nozzle man																		
210.160 210.160	Helper b) Muck away operation																		
210.160	Loco/Loader operator											1							
210.160	Underground excavator operator																		
210.160 210.160	Dumper driver Helper											+							
210.160	c) External support											1							
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.160	Minidumper 6t Rino																	
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160 160	Leading Miner Underground plant operator																	
60	Mechanical fitter																	
60 60	Nozzle man Helper																	
60	Plant																	
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60	Fiber reinforced shotcrete Sprayed concrete to the face																	
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60	Leading Miner																	
60	Mechanical fitter																	
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60 60	c) External support Welder																	
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60	Mechanical fitter Nozzle man										JP (TITA			<u> </u>			
60	Helper											annin.			_ 			
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	Helper c) External support										10					
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	Electrician Helper															
	Helper															
	Plant Minidumper 4t															
	Skip															
	MEWP (Mobile elevated working platform)															
	Flat bed truck CP-30 (2,3 t) Spider Crane															
	imary Tunnel lining															
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	Leading Miner															
	Underground plant operator															
	Mechanical fitter Nozzle man															
	Helper															
	b) Muck away operation c) External support															
	Plant															
	Transport with pipe															
	Mixer Concrete pump (Meyco Suprema)				 											
	Materials															
	Wire mesh															
3	Fiber reinforced shotcrete Q NLDLR MR (New mess room)															
	nel excavation and Concrete															
	Labour															
	a) Excavation & Primary Lining Leading Miner											14 11		+	+	
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	Mechanical fitter										1	1	E			
	Nozzle man Helper															
	Carpenter															
	b) Muck away operation Dumper driver													+	-	
	c) External support										5					
	Electrician															
	Plant Concrete pump															
	Vibrator															
	Mini excavator Breaker				-											
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ı	b) Muck away operation									A PORT						
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	Underground plant operator															
	Mechanical fitter															
	Nozzle man Helper													+	1	
	b) Muck away operation															
	c) External support Plant															
	Transport with pipe															
	Mixer															

201.210	Tunnels & Shafts		Programme	Labour Type (from the LRM)		Labour Rate (from LRM £/Shift)	Labour Total (£)	Description	Amount	Unit of Measure (UoM)	Materials Total (£)	Description	Amount	Unit (day / week / other)	Rate (£/Unit)	Plant Total (£)	
		Construction	WBS Ref														Comments/Queries
201 210.165	Concrete pump (Meyco Suprema)																
201 210.165	Materials																
201 210.165 201 210.165	Wire mesh																
201 210.165																	

	1									Unit of						
201.220 Statio	n Box/Station Structure	Programme	Labour Type (from the LRM)	Labour Code (from LRM)	Shifts (Nr)	Labour Rate (from LRM £/Shift)	Labour Total (£)	Description	Amount	Measure (UoM)	Rate (£/UoM)	Materials Total (£)	Description	Unit (day / week / Amount other)	Rate (£/Unit)	Plant Total (£)
201.220.100 Substru	tures	WBS Ref														
201.220.100 201.220.100	Mobilisation Demobilisation															
201.220.100 201.220.100	Specilaist Contractor Prelims Main Piling Works															
201.220.100 201.220.100	Whole Block Basement works (Excavation) Adapt site hoardings and gates															
201.220.100	Install king post wall to Building A21 Install skin wall to A24 basement along Nicholas Lane															
201.220.100 201.220.100	Pile probing works Install site access/ egress ramp															
201.220.100	Install piling mat to 110.8 Level															
201.220.100 201.220.100	Stage 1 propping temporary adaptions Adapt access/ egress ramp to enable pile construction															
201.220.100 201.220.100	Reinstate access/ egress ramp to allow piling rig removal Breakdown piles to enable capping beam construction															
201.220.100 201.220.100	Construct capping beam (Including Stage 2 temporary propping king po Install Stage 2 temporary propping upper frame	st scheme)														
201.220.100 201.220.100	Install Stage 2 temporary propping lower frame Excavation (Moling) to 100.89															
201.220.100 201.220.100	P R M Shaft	d 104-b - d b - 11 dis-	. 0	20 Ab ab and 1 and												
201.220.100	Water management control measures relating to existing basements of Specialist contractor Prelims	demilitshed building	s & maintained basement of A21	- 20 Abchurch Lane												
201.220.120 201.220.100	Water Proofing															
201.220.100 201.220.100	Washing/scraping Contiguous piled walls (access allowed for) Columns to everything below Ground Floor level															
201.220.100	600 x 600mm square columns from +115 to 98.00 (14m long)															
201.220.100 201.220.100	Kickers to columns Formwork															
201.220.100 201.220.100	Supply concrete to columns Place concrete to columns															
201.220.100 201.220.100	Reinforcement at 300kg per m3 Couplers elsewhere (included in slabs)															
201.220.100	Ground Floor Slab															
201.220.100	Supply concrete to Ground Floor Ticket Box Slab (includes deduction for void at escalators)															
201.220.100	Place concrete to Ground Floor Ticket Box Slab (includes deduction for void at escalators)															
201.220.100 201.220.100	Steel at 250Kg per m3 Couplers (guess)25 columns x 8 couplers															
	E/Over Couplings to Structure 1nr every 75mm horizontally and															
201.220.100	300mm vertically Formwork requiring propping to under side of OSD floor or ticket box															
201.220.100 201.220.100	roof Finish to TOC															
201.220.100 201.220.100	Formwork to edge of slab 0.6m wide Formwork to edge of slab 0.6m wide to voids															
201.220.100	Walls from level 115 - 112.18 South of Escalators															
201.220.100 201.220.100	Supply concrete to walls Place concrete to walls															
201.220.100 201.220.100	Rebar for above at 250 Kg per m3 Formwork to form walls m2															
201.220.100 201.220.100	Water bars and hydrophilic strips cast in wall vertically Walls for level 115 - 109.17 North of Escalators															
201.220.100	Supply concrete to new walls															
201.220.100 201.220.100	Place concrete to new walls Rebar for above at 250 Kg per m3															
201.220.100 201.220.100	Formwork Water bars and hydrophilic strips cast in wall vertically															
201.220.100 201.220.100	Raft Slab 98.00 Supply concrete to Raft Slab															
201.220.100	Place concrete to Raft Slab Rebar															
201.220.100	Water bars and hydrophilic strips cast in floor & wall horizontally to															
201.220.100 201.220.100	perimetre Concrete finish															
201.220.100 201.220.100	Couplers (guess)Escalator support wall/piles Couplers to piles															
201.220.100 201.220.100	Intermediate Landing Slab / Lower Propping Slab 101.64															
201.220.100	Supply concrete to Intermediate Landing Slab (stepped) Place concrete to Intermediate Landing Slab (stepped)															
201.220.100 201.220.100	Rebar Water bars and hydrophilic strips cast in wall horizontally to perimetre															
201.220.100 201.220.100	Concrete finish Formwork to voids / edges of slab m2															
201.220.100	Water bars and hydrophilic strips cast in wall horizontally to perimetre															
201.220.100 201.220.100	Couplers to OSD/piles @ 75mm C/C horizontal and 300mm vertical Couplers to piles															
201.220.100	Upper Propping Slab 105.39															
201.220.100 201.220.100	Supply concrete Volume supply and lay Place Concrete Volume supply and lay															
201.220.100	Rebar															
201.220.100 201.220.100	Water bars and hydrophilic strips cast in wall horizontally to perimetre Concrete finish															
201.220.100	Formwork to voids m2															
201.220.100	Couplers to OSD/piles @ 75mm C/C horizontally and two lines vertically inslab															
201.220.100 201.220.100	Couplers (guess) Escalator Piles Basement Slab 109.17-112.18 stepped over three levels															
201.220.100 201.220.100	Supply concrete for floor slab 750mm deep volume supply and lay Supply concrete for floor slab 1500mm volume supply and lay															
201.220.100	Place concrete for floor slab volume supply and lay															
201.220.100 201.220.100	Rebar Formwork requiring propping to a max height of 5m to soffit															
201.220.100	Vertical formwork in stepped slab															
201.220.100 201.220.100	Water bars and hydrophilic strips cast in wall horizontally to perimetre Concrete finish															
201.220.100	Formwork to voids m2 E/Over Couplings to Structure 1nr every 75mm horizontally and															
201.220.100	300mm vertically															
201.220.100 201.220.100	Couplers (guess) 8 couplers/escalators Couplers at step in slab															
201.220.100	Basement Walls Cast Against Contiguous Piled Structure 110.00 over three levels to Raft Slab @ 98.00															
201.220.100	Supply concrete supply and lay to Basement walls															
201.220.100 201.220.100	Place concrete supply and lay to Basement walls Rebar 250Kg per m3															
201.220.100 201.220.100	Formwork to basement walls average height 3m Kickers															
201.220.100	Water Bars and hydrophilic strips															

										Unit of							
201.220 S	ation Box/Station Structure	Programme	Labour Type (from the LRM)	Labour Code (from LRM)	Shifts (Nr)	Labour Rate (from LRM £/Shift)	Labour Total (£)	Description	Amount	Measure (UoM)	Rate (£/UoM)	Materials Total (£)	Description	Amount	Unit (day / week / other)	Rate (£/Unit)	Plant Total (£)
201.220.100	Couplers to tye into piles (20mm coupler) 500mm vertical c/c and 300mm horizontal C/C	WBS Ref															
	Basement Walls Block Work Against Lining walls with Cavity fair																
201.220.100	finish one side 110.00 over three levels to Raft Slab @ 98.00																
201.220.100 201.220.100	Lay paint grade block work fair finish one side 12Kn Block 140mm Rebar 25Kg per m2																
201.220.100	Paint block work to one side 2 coats RC Works below 96.50m to PRM Shaft																
201.220.100 201.220.100	Walls cast against contiguous piled structure Supply concrete Walls supply and lay to PRM lift shaft below 96.5m																
201.220.100 201.220.100	Place concrete Walls supply and lay to PRM lift shaft below 96.5m Rebar at 250Kg per m3																
201.220.100 201.220.100	Formwork to walls Water proofing system																
201.220.100	Water bars and hydrophilic strips cast in place Couplings to tie into contiguous piled wall say one every 150mm																
201.220.100	horizontally and one every 300mm vertically 1600mm thk walers cast against contiguous piled wall in PRM																
201.220.100	shaft (3nr) Supply concrete Walers supply to PRM lift shaft below 96.5m																
201.220.100	Place concrete Walers lay to PRM lift shaft below 96.5m																
201.220.100	Rebar to above 250Kg per m3 Formwork to soffit and propping requirement 2m approx Formwork to Edge of slab and water proofing ne 2.0m																
201.220.100	Couplings to tie into contiguous piled wall say one every 150mm horizontally and one every 300mm vertically																
201.220.100	Ground bearing slab commencing at 84.80 metres, Assumed BOC																
201.220.100	83.30 Supply concrete supply and lay below ground																
201.220.100 201.220.100	Place concrete supply and lay below ground Formwork to edge of slab for void ne 2m width																
201.220.100	Water Proofing System Couplings to tie into contiguous piled wall say one every 150mm																
201.220.100 201.220.100	horizontally and one every 300mm vertically Rebar																
201.220.100	Surface finish Insitu Escalator support beam 600 x 600mm deep TOB 108.66																
201.220.100	Supply Concrete for support beam Place Concrete for support beam																
201.220.100	Rebar 300Kg per m3 Concrete finish top of beam area																
201.220.100	Formwork requiring propping to under side of beam Formwork to edge of beam																
201.220.100	Couplings to tie into RC Wall Temporary Access Requirement (MEWP 1 week)																
201.220.100	Inclined Wailing Beam with prop across escalator void Mass of CHS Prop 30mm thk wall 600mm dia (outside wall to outside																
201.220.100	wall) 9 metres long Painting one hour protection column above finished in white																
201.220.100	Supply concrete for thickening of walls to act as load distributor/ wailing beam to CHS Prop																
201.220.100	Place concrete for thickening of walls to act as load distributor/ wailing beam to CHS Prop																
201.220.100	Rebar 250 Kg per m3 Walls to PRM Lift shaft only, above level 84.8 -115 (assumed																
201.220.100 201.220.100	250mm thk, rebar 300Kg per m3 and formwork to two sides) Supply concrete to Form Lift Shaft Wall from 115 to 84.8																
201.220.100	Place concrete to Form Lift Shaft Wall from 115 to 84.8 Rebar to Lift Shaft Walls 300Kg per m3																
201.220.100	Formwork to walls for Lift Shaft Form Voids in Lift Shaft Form Voids in Lift Shaft Construction (Guestimate)																
201.220.100	Kickers to Wall (from one floor) Walls to PRM Staircase and Service Voids, above level 84.8 -115																
	(assumed 250mm thk, rebar 300Kg per m3 and formwork to two																
201.220.100	sides) Supply concrete to Form Staircase and Service Voids																
201.220.100 201.220.100	Place Concrete to Form Staircase walls Rebar to Lift Shaft Walls																
201.220.100 201.220.100	Formwork to walls for Lift Shaft Form Voids in Lift Shaft Construction (Guestimate)																
201.220.100	Kickers to Wall (over 6 floors) Load Bearing walls to Escalator from Under side of Ground floor																
201.220.100 201.220.100	to Basement Level 1 Supply concrete to Walls (assumed ave height is equal to 3m)																
201.220.100 201.220.100	Place concrete to Walls (assumed ave height is equal to 3m) Rebar to above (assume steel tied so no couplers)																
201.220.100	Kickers Form work to walls Fair face two sides																
201.220.100 201.220.100	Misc Items FOSROC Concur WB (Wax slip joint)																
201.220.100 201.220.100	Supply C8/10 C111A S3 Place in 50mm beds C8/10 C111A Pump S3 mix																
201.220.100 201.220.100	Trail finish to Lean mix (to except FOSROC) Supply concrete for capping beam																
201.220.100 201.220.100	Place Concrete to capping beam Rebar for capping beam																
201.220.100	Finish to TOC capping beam Form Works to Edge of beam 1.5 - 2 metres wide capping beam																
201.220.100	Formwork to soffit and falsework for capping beam Form drip to underside of floors at perimetre 20 x 20mm																
201.220.100	Blockwork ties to concrete lining wall (1 every 450mm C/C along walls)																
201.220.100	Drain channel between block work and lining wall formed of water proof mortar																
201.220.100	75mm dia STAINLESS steel down pipe cast into drainage channel and structural floors and wailing beams between block and lining wall																
201.220.100	Inspection hatches every 10m per floor around perimetre in blockwork dry wall 1000 x1200mm (4 floors)																
201.220.100 201.220.100 201.220.100	Vertical movement joints in Block work Wall say every 6 metres Damp proof Blockwork																
201.220.100 201.220.100 201.220.100	Concrete tests (1nr per 100m3) Scabble edges of walls or slabs																
201.220.100	Lower PRM Shaft Foreman																
201.220.100 201.220.100 201.220.100	Fitter Welder																
201.220.100 201.220.100 201.220.100	weider Underground labour / Miner Carpenter																
201.220.100	General Operative Steel beams UC305 x 305 x 98																
201.220.100 201.220.100	Steel beams UC305 X 305 X 98 Concrete Formwork																
201.220.100 201.220.100	Formwork Excavator																

											Unit of							
201.220 St	ation E	Box/Station Structure	Programme WBS Ref	Labour Type (from the LRM)	Labour Code (from LRM)	Shifts (Nr)	Labour Rate (from LRM £/Shift)	Labour Total (£)	Description	Amount	Measure (UoM)	Rate (£/UoM)	Materials Total (£)	Description	Amount	Unit (day / week / other)	Rate (£/Unit)	Plant Total (£)
201.220.100		ower PRM Shaft connection to DLR Concourse and Platform	WB3 Rei															
201.220.100 201.220.100 201.220.100		Foreman Fitter																
201.220.100		Welder Carpenter																
201.220.100 201.220.100		Underground labour / Miner General Operative																
201.220.100		Steel columns Concrete																
201.220.100 201.220.100	-	Formwork Crane																
201.220.105 201.220.105 201.220.105		Kickers to columns Couplers to columns																
201.220.105 201.220.105		Formwork ne 1m wide Supply concrete to columns																
201.220.105		Place concrete to columns Reinforcement at 300kg per m3																
201.220.105 201.220.105 201.220.105		Columns to everything below Ground Floor level 600 x 600mm square columns from +115 to 98.00 (14m long) Kickers to columns																
201.220.105 201.220.105 201.220.105		Formwork Supply concrete to columns																
201.220.105 201.220.105		Place concrete to columns Reinforcement at 300kg per m3																
201.220.105 201.220.115 Roo	of	Couplers elsewhere (included in slabs)																
201.220.115		Supply C40 Pump mix S3 Concrete to OSD Floor Ticket Box Roof																
201.220.115 201.220.115		Place C40 Pump mix S3 concrete to OSD Floor Ticket Box Roof Steel at 250Kg per m3 Couplers to OSD @ 75mm C/C horizontally and 2 nr vertically for half																
201.220.115 201.220.115		perimetre 32mm Perimetre Formwork 0.9m high																
201.220.115		Formwork requiring propping to under side of OSD floor or ticket box roof																
201.220.115 201.220.120 Stai	airs	Concrete Finish																
201.220.120 201.220.120 201.220.120		Stairs and Landings to PRM Shaft Pre Cast or Insitu stair case to PRM Shaft 0.18m rise and 0.25m tread Nosings for above (anti slip tape) wet slip of in excess of 40																
201.220.120 201.220.125 Exte	ternal Wall	Pre cast or insitu landings to PRM shaft ((678mm approx)Guesstimate)																
201.220.125	Lo Fi	pad Bearing wall to separate OSD with Ticket Box at Ground floor to irst Floor Level (Half approx perimetre)																
201.220.125		Supply concrete to walls Place concrete to walls																
201.220.125 201.220.125 201.220.125		Rebar to above Kickers Form work to walls Fair face two sides																
201.220.125		Assumed Couplers to tie in OSD Structure (two rows of couplers every 75mm, along the length)																
201.220.150 Med 201.220.150		Electrical works RM Riser and Staircase Installation																
201.220.150 201.220.150		Mechanical PRM & staircase available for M&E works																
201.220.150 201.220.150 201.220.150	E	Ventilation Services Pressurization Ductwork Sprinkler Pipework 1st Fix																
201.220.150 201.220.150 201.220.150		Air Conditioning Pipework Fire Hydrant Pipework																
201.220.150 201.220.150		Condenser Pipework Pump drainage																
201.220.150 201.220.150		Sprinkler pipework 2nd Fix Fire rated Insulation																
201.220.150 201.220.150 201.220.150	E	Electrical Install CMS Electrical																
201.220.150 201.220.150 201.220.150		Ist Fix Lighting 2nd Fix Lighting																
201.220.150 201.220.150	В	Testing & Commissioning asement Areas																
201.220.150 201.220.150		Mechanical Ventilation duct work																
201.220.150		Sprinkler Pipework 1st Fix Above ground drainage/rainwater pipework																
201.220.150 201.220.150 201.220.150		Condenser Pipework Install VRF water cooled plant Sprinkler pipework 2nd fix																
201.220.150 201.220.150		Electrical Install basement Containment																
201.220.150 201.220.150		Install LV switchpanels Install Distribution Boards																
201.220.150		Install OLBI Install UPS																
201.220.150 201.220.150 201.220.150		Install LV Cabling 1st fix small power 1st fix lighting																
201.220.150 201.220.150 201.220.150		1st fix lighting control 2nd fix small power																
201.220.150 201.220.150	E	2nd fix lighting 2nd fix lighting control																
201.220.150 201.220.150		1st fix fire alarm 2nd fix fire alarm																
201.220.150 201.220.150		1st Fix Earthing and Bonding 2nd Fix Earthing and Bonding Tooting and emprisoning																
201.220.150 201.220.150 201.220.150		Testing and commissioning ub-Escalator Plant Room Level Mechanical																
201.220.150 201.220.150 201.220.150		Intermediate Level Plant area available for M&E work Install Ductwork																
201.220.150 201.220.150		Sprinkler pipework 1st fix Install Fans & Ventilation Equip																
201.220.150 201.220.150		Sprinkler pipework 2nd fix Fire rated Insulation																
201.220.150 201.220.150 201.220.150		Electrical Electrical Containment Install I V Cables																
201.220.150 201.220.150 201.220.150		Install LV Cables 1st fix Lighting 1st fix Fire alarm																
201.220.150 201.220.150 201.220.150		1st fix comms 1st Fix Small power																
201.220.150 201.220.150		Fire alarm 2nd fix 2nd fix Lighting																
201.220.150 201.220.150		2nd fix comms 2nd fix Small Power																

										Unit of							
201.220	Station Box/Station Structure	Programme	Labour Type (from the LRM)	Labour Code (from LRM)	Shifts (Nr)	Labour Rate (from LRM £/Shift)	Labour Total (£)	Description	Amount	Measure (UoM)	Rate (£/UoM)	Materials Total (£)	Description	Amount	Unit (day / week / other)	Rate (£/Unit)	Plant Total (£)
		WBS Ref					(_)			()	(2.00)					((-)
201.220.150	Testing and Commissioning																
201.220.150	Intermediate Level Room Areas																
201.220.150 201.220.150	Mechanical																
201.220.150 201.220.150 201.220.150	Intermediate Level room area available for M&E work																
201.220.150	1st fix Ductwork																
201.220.150	Sprinkler pipework 1st fix																
201.220.150	2nd fix ductwork																
201.220.150	Sprinkler pipework 2nd fix																
201.220.150	Electrical																
201.220.150	1st fix Fire alarm																
201.220.150	1st fix comms																
201.220.150 201.220.150 201.220.150 201.220.150 201.220.150 201.220.150 201.220.150 201.220.150	2nd fix Fire alarm																
201.220.150	2nd fix comms																
201.220.150	Testing and Commissioning																

	-										Unit of							
201.230 Ticket I	Jali		D	Labour Type (from the LDM)	Labour Code (from LRM)	Shifts (Nr)	Labour Rate (from LRM £/Shift)	Labour Total (£)	Description	Amount	Measure (UoM)	Rate (£/UoM)	Materials Total (£)	Description	Amount	Unit (day / week / other)	Rate (£/Unit)	Plant Total (£)
ZU1.ZJU TICKELI	iaii	Construction Type		Labour Type (from the LRM)	LIXIII)	Silits (NI)	LKW Z/3IIII()	Labour Total (£)	Description	Amount	(UUWI)	Rate (£/00W)	Waterials Total (L)	Description	Amount	otner)	Rate (£/OIIIt)	Flant Total (£)
201.230.130	Windows & External Doors	Conditable 117pc	1 regramme					£ -					£ -					0.00
201.230.130	Glazed Curtain Walling																	
201.230.130	Portland Stone Cladding																	
201.230.130	Aluminum Rainscreen Cladding																	
201.230.135	Internal Walls and Partitions																	
201.230.135	Block walls	4																
201.230.135 201.230.135	Supply C40 for RC Walls Place C40 for RC Walls	=																
201.230.135	Vertical Formwork to RC Walls	+																
201,230,135	Reinforcement to RC Walls																	
201.230.135	Cast in Voids																	
201.230.140	Internal Doors																	
201.230.140	Single fire doors																	
201.230.140	Boswick Gates (1 set 4.5x4.5m)																	
201.230.140	Boswick Gates (1 set 14x4.5m) Double leaf																	
201.230.140	Standard metal double doors																	
201.230.140	Bostwick type gates																	
201.230.145 201.230.145	Wall Finishes																	
201.230.145	Wall cladding Cladding to Columns																	
201.230.145	Painting to Front of House	+																
201.230.150	Floor Finishes																	
201.230.150	Terrazzo tiling on screed																	
201.230.150	100mm Screed																	
201.230.155	Ceiling Finishes																	
201.230.155	Fully accessible suspended ceiling																	
201.230.160	Fittings and Furnishings																	
201.230.160	Fire Screen	4																
201.230.160	Glazed Hand Rail																	
201.230.160 201.230.160	Flip up Flood Barrier Mat Well	4																
201.230.160	Double Doors	-																
201.230.100	Mechanical & Electrical works																	
201.230.165	Building work in connection (Joint and Fire Selent)																	
201.230.165	Install ductwork																	
201.230.165	Domestic Pipework																	
201.230.165	Install condenser pipework																	
201.230.165	BOH Ventilation																	
201.230.165	Sprinkler Pipework 1st Fix																	
201.230.165	Install Heat rejection plant																	
201.230.165	Domestic Pipework 2nd Fix	4																
201.230.165 201.230.165	Sprinkler pipework 2nd fix Sanitaryware fitout 2nd fix (staff/Disabled)	┥																
201.230.165	Fire rated Insulation	┪																
201.230.165	Electrical	=																
201.230.165	Electrical Containment	1																
201.230.165	Install LV Cables																	
201.230.165	1st fix Lighting																	
201.230.165	1st Fix fire alarm																	
201.230.165	1st fix comms	1																
201.230.165	1st fix Small Power	_																
201.230.165	Install Distribution Boards	4																
201.230.165 201.230.165	1st fix FOH lighting	4																
201.230.165	2nd fix Fire Alarm 2nd fix lighting	+																
201.230.165	2nd fix lighting 2nd Fix FOH lighting	+																
201.230.165	2nd fix FOH lighting 2nd fix comms	†																
201.230.165	2nd fix Contins 2nd fix Small Power	1																
201.230.165	Testing and Commissioning	1																

LU Cost Estimating System

COST FEEDBACK STRUCTURE

201.240 Concourse	Programme	Labour Type (from the LRM)	Labour Code (from LRM)	Shifts (Nr)	Labour Rate (from LRM £/Shift)	Labour Total (£)	Description	Amount	Unit of Measure (UoM)	Rate (£/UoM)	Materials Total (£)	Description	Amount	Unit (day / week / other)	Rate (£/Unit)	Plant Total (£)	
	WBS Ref																Comments/Queries
Northern Line Concourse (New)																	

		_		1						Unit of						
204 252	0:	A (B		_	 Labour Code (from		Labour Rate (from			Measure				Unit (day / week /	2	
201.250	Circulatio	on Areas / Passages	Construction Type	Programme Programme	LRM)	Shifts (Nr)	LRM £/Shift)	Labour Total (£)	Description Amount	(UoM)	Rate (£/UoM)	Materials Total (£)	Description Amount	other)	Rate (£/Unit)	Plant Total (£)
201.250.135		Internal Walls and Partitions	Construction Type	Flogramme												
201.250.135 201.250.135		NL CP 3 Internal Walls and Partition	ns.													
201.250.135			Dense Concrete Blockwork Wall Access Hatch													
201.250.135 201.250.135		NL CP 4														
201.250.135 201.250.135		Internal Walls and Partition	Nall Access Hatch													
201.250.135		NII CC 2	190mm Reinforced Blockwork W	/alls												
201.250.135 201.250.135		NL CC 2 Internal Walls and Partition	<u>l</u> ns													
201.250.135 201.250.135			Dense Concrete Blockwork Wall Access Hatch													
201.250.135		SQ AS														
201.250.135 201.250.135		Internal Walls and Partition	Dense Concrete Blockwork													
201.250.135 201.250.140		Internal Doors	Wall Access Hatch													
201.240.140		NL LCA														
201.240.140 201.240.140		Internal Doors	Held Open Fire Doors													
201.240.145		Wall Finishes	Heid Open File Doors													
201.250.145 201.250.145		NL LCA Public Areas	<u> </u>													
201.250.145		Fublic Aleas	Tiling on Render													
201.250.145 201.250.145		NL CT	Skirting Straight													
201.250.145		Public Areas	1													
201.250.145 201.250.145		—	Tiling on Render Skirting Straight													
201.250.145		NL CP 1	1													
201.250.145 201.250.145		Public Areas	Tiling on Render													
201.250.145 201.250.145		NL CC 1	Skirting Straight													
201.250.145		Public Areas														
201.250.145 201.250.145			Tiling on Render Skirting Straight													
201.250.145 201.250.145		NL CP 2 Public Areas	-													
201.250.145		r ublic Aleas	Tiling on Render													
201.250.145 201.250.145		NL CP 3	Skirting Straight													
201.250.145		Public Areas	Tilian an Dandar													
201.250.145 201.250.145			Tiling on Render Skirting Straight													
201.250.145 201.250.145		NL CP 4 Public Areas	_													
201.250.145		1 dbile / trode	Tiling on Render													
201.250.145 201.250.145		NL CC 2	Skirting Straight													
201.250.145 201.250.145		Public Areas	Tiling on Render													
201.250.145			Skirting Straight													
201.250.145 201.250.145		SQ NL 2 Public Areas	_													
201.250.145 201.250.145			Tiling on Render													
201.250.145			Skirting Straight E/O for Connection Details													
201.250.145 201.250.145		SQ NL 3 Public Areas	<u> </u>													
201.250.145			Tiling on Render													
201.250.145 201.250.145			Skirting Straight E/O for Connection Details													
201.250.145		SQ NL 4 Public Areas														
201.250.145 201.250.145		1 ubile Areas	Tiling on Render													
201.250.145 201.250.145			Skirting Straight E/O for Connection Details													
201.250.145 201.250.145 201.250.145		SQ CP 1 Public Areas														
201.250.145		I UDIIC AIGAS	Tiling on Render													
201.250.145 201.250.145			Skirting Straight E/O for Connection Details													
201.250.145 201.250.145		SQ CP 2 Public Areas														
201.250.145		F UDITE ATERS	Tiling on Render													
201.250.145 201.250.145			Skirting Straight E/O for Connection Details													
201.250.145 201.250.145		SQ CP 3 Public Areas														
201.250.145		r ubilit Aleds	Tiling on Render													
201.250.145 201.250.145			Skirting Straight E/O for Connection Details													
201.250.145		NL EB														
201.250.145 201.250.145		Public Areas	VE Cladding to Esculator Barrels	s												
201.250.145 201.250.145		NL LMC Public Areas	-													
201.250.145		. GENETHOUS	Tiling on Render													
201.250.145 201.250.145		CLL 1	Skirting Straight													
201.250.145		Public Areas	Tiling on Ponder													
201.250.145 201.250.145			Tiling on Render Skirting Straight													
201.250.145 201.250.145		CLL TV Public Areas	-													
201.250.145			Skirting Straight													
201.250.145 201.250.145		HVS SP1	VE Cladding to Esculator Barrels	5												
201.250.145 201.250.145		Public Areas	Painting -BOH													
201.250.145			Dust Sealed Floors													
201.250.145 201.250.145		HVS Public Areas	4													
201.250.145			Painting -BOH													
201.250.145 201.250.145		HVS SP2	Dust Sealed Floors													
201.250.145 201.250.145		Public Areas	Painting -BOH													
201.250.145		90 Bi	Dust Sealed Floors													
201.250.145		SQ SL	_													T. Company

			_		1					I Unit of						
					Labour Code (from		Labour Rate (from			Unit of Measure				Unit (day / week /		
201.250	Circulation Areas / Passage		Programm		LRM)	Shifts (Nr)	LRM £/Shift)	Labour Total (£)	Description Amount	(UoM)	Rate (£/UoM)	Materials Total (£)	Description Amount	other)	Rate (£/Unit)	Plant Total (£)
201.250.145	Public Areas	Construction Type	Programm	e												
201.250.145 201.250.145		Tiling on Render														
201.250.145		Skirting Straight E/O for Connection Details														
201.250.145 201.250.145	CLL 2 Public Areas															
201.250.145	, abnormode	Tiling on Render														
201.250.145 201.250.145	SQ CP	Skirting Straight														
201.250.145 201.250.145	Public Areas	Tiling on Render														
201.250.145		Skirting Straight														
201.250.145 201.250.145	CL CT Public Areas															
201.250.145 201.250.145		Tiling on Render														
201.250.145	CL LMC	Skirting Straight														
201.250.145 201.250.145	Public Areas	Tiling on Render														
201.250.145	0.50	Skirting Straight														
201.250.145 201.250.145	CL EB Public Areas															
201.250.145 201.250.145	CL UMC	VE Cladding to Esculator Barre	els													
201.250.145	Public Areas															
201.250.145 201.250.145		Tiling on Render Skirting Straight														
201.250.145 201.250.145	DLR CT Public Areas															
201.250.145	r ubiic Aleas	Tiling on Render														
201.250.145 201.250.145	DLR CP	Skirting Straight														
201.250.145	Public Areas	Tiling on Dondon														
201.250.145 201.250.145		Tiling on Render Skirting Straight														
201.250.145 201.250.145	SQ DLR 1 Public Areas															
201.250.145	, apilo rifeda	Tiling on Render														
201.250.145 201.250.145		Skirting Straight E/O for Connection Details														
201.250.145 201.250.145	SQ DLR 2 Public Areas															
201.250.145	· · · · · · · · · · · · · · · · · · ·	Tiling on Render														
201.250.145 201.250.145		Skirting Straight E/O for Connection Details														
201.250.145 201.250.145	SQ DLR 3 Public Areas															
201.250.145	T don't riodo	Tiling on Render														
201.250.145 201.250.145		Skirting Straight E/O for Connection Details														
201.250.145 201.250.145	SQ AS Public Areas															
201.250.145	T don't riodo	Tiling on Render														
201.250.145 201.250.145	DLR LMC	Skirting Straight														
201.250.145 201.250.145	Public Areas	Tiling on Render														
201.250.145		Skirting Straight														
201.250.145 201.250.145	DLR EB Public Areas															
201.250.145 201.250.145	DLR UMC	VE Cladding to Esculator Barre	els													
201.250.145	Public Areas	Tir D l														
201.250.145 201.250.145		Tiling on Render Skirting Straight														
201.250.150 201.250.150	Floor Finishes NL LCA															
201.250.150	Floor Finishes															
201.250.150 201.250.150	Public Areas	Terrazzo tiling on screed														
201.250.150	NL CT															
201.250.150 201.250.150	Floor Finishes Public Areas															
201.250.150	T abile Aleas	Terrazzo tiling on screed														
201.250.150 201.250.150	NL CP 1	100mm Screed														
201.250.150	Floor Finishes															
201.250.150 201.250.150	Public Areas	Terrazzo tiling on screed														
201.250.150 201.250.150	NL CC 1	100mm Screed														
201.250.150	Floor Finishes															
201.250.150 201.250.150	Public Areas	Terrazzo tiling on screed														
201.250.150 201.250.150	NL CP 2	100mm Screed														
201.250.150	Floor Finishes															
201.250.150 201.250.150	Public Areas	Terrazzo tiling on screed														
201.250.150 201.250.150	NL CP 3	100mm Screed														
201.250.150	Floor Finishes															
201.250.150 201.250.150	Public Areas	Terrazzo tiling on screed														
201.250.150 201.250.150	NL CP 4	100mm Screed														
201.250.150	Floor Finishes															
201.250.150 201.250.150	Public Areas	Terrazzo tiling on screed														
201.250.150 201.250.150	NL CC 2	100mm Screed														
201.250.150	Floor Finishes															
201.250.150 201.250.150	Public Areas	Terrazzo tiling on screed														
201.250.150 201.250.150	SQ NL 2	100mm Screed														
201.250.150	Floor Finishes															
201.250.150 201.250.150	Public Areas	Terrazzo tiling on screed														
201.250.150 201.250.150	SQ NL 3	100mm Screed														

					1					Unit of			-			
204 250	Circulation Areas / Bassages			1 -1 T (form the 1 DM)	Labour Code (from	01.16 - 01.5	Labour Rate (from	Labour Tatal (0)	Paradetti Paradet	Measure	Day (071-14)	Maradala Tarako	A second	Unit (day / week /	Date (Office)	Plant Tatal (0)
201.250	Circulation Areas / Passages	Construction Type	Programme Programme		LRM)	Shifts (Nr)	LRM £/Shift)	Labour Total (£)	Description Amount	(UoM)	Rate (£/UoM)	Materials Total (£)	Description Amount	other)	Rate (£/Unit)	Plant Total (£)
201.250.150	Floor Finishes	Construction Type	Flogramme													
201.250.150 201.250.150	Public Areas	Terrazzo tiling on screed														
201.250.150	SO NII 4	100mm Screed														
201.250.150 201.250.150	SQ NL 4 Floor Finishes															
201.250.150 201.250.150	Public Areas	Terrazzo tiling on screed														
201.250.150		100mm Screed														
201.250.150 201.250.150	SQ CP 1 Floor Finishes	=														
201.250.150 201.250.150	Public Areas	Terrazzo tiling on screed														
201.250.150		100mm Screed														
201.250.150 201.250.150	SQ CP 2 Floor Finishes	+														
201.250.150 201.250.150	Public Areas	Terrazzo tiling on screed														
201.250.150		100mm Screed														
201.250.150 201.250.150	SQ CP 3 Floor Finishes	+														
201.250.150 201.250.150	Public Areas	Terrazzo tiling on screed														
201.250.150		100mm Screed														
201.250.150 201.250.150	NL EB Floor Finishes	+														
201.250.150	Public Areas															
201.250.150 201.250.150	NL LMC Floor Finishes	₫														
201.250.150 201.250.150	Public Areas	Terrazzo tiling on screed														
201.250.150	CI I 4	100mm Screed														
201.250.150 201.250.150	CLL 1 Floor Finishes	1														
201.250.150 201.250.150	Public Areas	Terrazzo tiling on screed														
201.250.150	CI L TV	100mm Screed														
201.250.150 201.250.150	CLL TV Floor Finishes	1														
201.250.150 201.250.150	Public Areas	Terrazzo tiling on screed														
201.250.150 201.250.150	HVS SP1	100mm Screed														
201.250.150	Floor Finishes	<u> </u>														
201.250.150 201.250.150	Public Areas	100mm Screed														
201.250.150	HVS															
201.250.150 201.250.150	Floor Finishes Public Areas	=														
201.250.150 201.250.150	HVS SP2	100mm Screed														
201.250.150	Floor Finishes															
201.250.150 201.250.150	Public Areas	100mm Screed														
201.250.150 201.250.150	SQ SL Floor Finishes	4														
201.250.150	Public Areas															
201.250.150 201.250.150		Terrazzo tiling on screed 100mm Screed														
201.250.150 201.250.150	CLL 2 Floor Finishes	4														
201.250.150 201.250.150	Public Areas	T														
201.250.150		Terrazzo tiling on screed 100mm Screed														
201.250.150 201.250.150	SQ CP Floor Finishes	+														
201.250.150 201.250.150	Public Areas	Terrazzo tiling on screed														
201.250.150		100mm Screed														
201.250.150 201.250.150	CL CT Floor Finishes	+														
201.250.150	Public Areas	Torrozzo tiling on corood														
201.250.150 201.250.150		Terrazzo tiling on screed 100mm Screed														
201.250.150 201.250.150	CL LMC Floor Finishes	4														
201.250.150 201.250.150	Public Areas	Terrazzo tiling on screed														
201.250.150		100mm Screed														
201.250.150 201.250.150	CL EB Floor Finishes	Ⅎ														
201.250.150 201.250.150	Public Areas CL UMC	4														
201.250.150	Floor Finishes	1														
201.250.150 201.250.150	Public Areas	Terrazzo tiling on screed														
201.250.150 201.250.150	DLR CT	100mm Screed														
201.250.150	Floor Finishes															
201.250.150 201.250.150	Public Areas	Terrazzo tiling on screed														
201.250.150	DI D CD	100mm Screed														
201.250.150 201.250.150	DLR CP Floor Finishes	₫														
201.250.150 201.250.150	Public Areas	Terrazzo tiling on screed														
201.250.150 201.250.150	SO DI P.4	100mm Screed														
201.250.150	SQ DLR 1 Floor Finishes	₫														
201.250.150 201.250.150	Public Areas	Terrazzo tiling on screed														
201.250.150	SO DI D O	100mm Screed														
201.250.150 201.250.150	SQ DLR 2 Floor Finishes	₫														
201.250.150 201.250.150	Public Areas	Terrazzo tiling on screed														
201.250.150	50 51 5 0	100mm Screed														
201.250.150 201.250.150	SQ DLR 3 Floor Finishes	Ⅎ														
201.250.150 201.250.150	Public Areas	Terrazzo tiling on screed														
201,250,150	50.10	100mm Screed														
201.250.150	SQ AS															

											Unit of							
					Labour Code (from		Labour Rate (from				Measure					Unit (day / week /		
201.250	Circulation Areas / Passages		Programme	Labour Type (from the LRM)	LRM)	Shifts (Nr)	LRM £/Shift)	Labour Total (£)	Description	Amount	(UoM)	Rate (£/UoM)	Materials Total (£)	Description	Amount	other)	Rate (£/Unit)	Plant Total (£)
		Construction Type	Programme															
201.250.155		Accoustic Lining																
201.250.155		CMS Cladding																
201.250.155	CL CT																	
201.250.155 201.250.155	Ceiling Finishes Public Areas	_																
201.250.155		CMS Cladding																
201.250.155	CL LMC	Civio Clauding																
201.250.155	Ceiling Finishes	1																
201.250.155	Public Areas	-																
201.250.155		CMS Cladding																
201.250.155	CL UMC																	
201.250.155	Ceiling Finishes																	
201.250.155	Public Areas																	
201.250.155		CMS Cladding																
201.250.155	DLR CT	_																
201.250.155	Ceiling Finishes	-																
201.250.155 201.250.155	Public Areas	CMS Cladding																
201.250.155	DLR CP	Civio Clauding																
201.250.155	Ceiling Finishes	-																
201.250.155	Public Areas	-																
201.250.155		Accoustic Lining																
201.250.155		CMS Cladding																
201.250.155	SQ DLR 1	_																
201.250.155	Ceiling Finishes																	
201.250.155	Public Areas																	
201.250.155		Accoustic Lining																
201.250.155		CMS Cladding																
201.250.155 201.250.155	SQ DLR 2 Ceiling Finishes	-																
201.250.155	Public Areas										_							
201.250.155	Fublic Aleas	Accoustic Lining																
201.250.155		CMS Cladding																
201.250.155	SQ DLR 3	- Cine Gladding																
201.250.155		1																
201.250.155		1																
201.250.155		Accoustic Lining																
201.250.155		CMS Cladding																
201.250.155	SQ AS																	
201.250.155	Ceiling Finishes																	
201.250.155	Public Areas																	
201.250.155		CMS Cladding																
201.250.155	DLR LMC	_																
201.250.155	Ceiling Finishes Public Areas	_																
201.250.155 201.250.155	Public Areas	CMS Cladding									-							
201.250.155	DLR UMC	Civio Clauding																
201.250.155	Ceiling Finishes																	
201.250.155		CMS Cladding																

201.255	Operations Rooms	Programme	Labour Type (from the LRM)	Labour Code (from LRM)	Shifts (Nr)	Labour Rate (from LRM £/Shift)	Labour Total (£)	Description	Amount	Unit of Measure (UoM)	Rate (£/UoM)	Materials Total (£)	Description	Amount	Unit (day / week / other)	Rate (£/Unit)	Plant Total (£)
	'	WBS Ref															
2021.255.135																	
2021.255.135 201.256.135 201.256.135	Riser Room 1																
201.256.135	Internal Walls and Partitions			·													

		-					Labour Rate								1	1	
				Labour Type	Labour Code		(from LRM				Unit of Measure		Materials Total			Unit (day / week	
201.256	Staff Fac	ilities/Rooms	Programme	(from the LRM)	(from LRM)	Shifts (Nr)		Labour Total (£)	Description	Amount	(UoM)	Rate (£/UoM)	(£)	Description	Amount	/ other)	Rate (£/Unit) Plant Total (£)
			Programme														Con
			WBS Ref.														
201.256.135		Internal Walls and Partitions															
201.256.134		Disabled WC															
201.256.135		Internal Walls and Partitions															
201.256.135		Dense Concrete Blockwork															
		Cleaners TeaPoint															
201.256.135		Internal Walls and Partitions															
201.256.135		Dense Concrete Blockwork															
		Staff WC															
201.256.135		Internal Walls and Partitions															
201.256.135		Dense Concrete Blockwork															
		Mess Kitchen															
201.256.135		Internal Walls and Partitions															
201.256.135		Dense Concrete Blockwork															
204 250 425		Hallway 5 Internal Walls and Partitions															
201.256.135 201.256.135		Dense Concrete Blockwork															
201.256.135		Windposts															
201.256.140		Internal Doors															
201.230.140		Disabled WC															
201.256.140		Internal Doors															
201.256.140		Single 1Hr Fire rated Doors Set															
201.256.140		Fire Sealent															
201.230.140		Cleaners TeaPoint															
201.256.140		Internal Doors															
201.256.140		Single 1Hr Fire rated Doors Set															
201.256.140		Fire Sealent															
201.230.140		Staff WC															
201.256.140		Internal Doors															
201.256.140		Single 1Hr Fire rated Doors Set															
201.256.140		Fire Sealent															
		Mess Kitchen															
201.256.140		Internal Doors															
201.256.140		Single 1Hr Fire rated Doors Set															
201.256.140		Fire Sealent															
		Hallway 4															
201.256.140		Internal Doors															
201.256.140		Single 1Hr Fire rated Doors Set															
201.256.140		Fire Sealent															
		Hallway 5															
201.256.140		Internal Doors															
201.256.140		Single 1Hr Fire rated Doors Set															
201.256.140		Fire Sealent															
201.256.145		Wall Finishes															
		Disabled WC															
201.256.145		Wall Finishes															
201.256.145		Painted fair faced concrete/blockwor	k I														
		Cleaners TeaPoint															
201.256.145		Wall Finishes															
201.256.145		Painted fair faced concrete/blockwor	k I														
201.256.145		Tiled Finish															
		Staff WC															
201.256.145		Wall Finishes															
201.256.145		Painted fair faced concrete/blockwor	k l														
		Mess Kitchen															
201.256.145		Wall Finishes															
201.256.145		Painted fair faced concrete/blockwor	k l														
201.256.145		Tile on Blockwork															
		Hallway 4															

201.256.145	Wall Finishes									
	Hallway 5									
201.256.145	Wall Finishes									
201.256.145	Painted fair faced concrete/blockwor	l v								
201.256.150	Floor Finishes	K.								
201.230.130	Disabled WC									
201.256.150	Floor Finishes									
201.256.150	Dust Sealed Power Float Finish						 			
201.230.130	Cleaners TeaPoint									
204 250 450	Floor Finishes									
201.256.150										
201.256.150	Screeding Floor Finish									
004.050.450	Staff WC									
201.256.150	Floor Finishes									
201.256.150	Dust Sealed Power Float Finish									
	Mess Kitchen									
201.256.150	Floor Finishes									
201.256.150	Dust Sealed Power Float Finish									
	Hallway 4									
201.256.150	Floor Finishes									
201.256.150	Dust Sealed Power Float Finish									
	Hallway 5									
201.256.150	Floor Finishes									
201.256.150	Dust Sealed Power Float Finish									
201.256.155	Ceiling Finishes									
	Disabled WC									
201.256.155	Ceiling Finishes									
201.256.155	Fully accessible suspended ceiling									
	Cleaners TeaPoint									
201.256.155	Ceiling Finishes									
201.256.155	Fully accessible suspended ceiling									
	Staff WC									
201.256.155	Ceiling Finishes									
201.256.155	Fully accessible suspended ceiling									
	Mess Kitchen									
201.256.155	Ceiling Finishes									
201.256.155	Fully accessible suspended ceiling									
	Hallway 4									
201.256.155	Ceiling Finishes									
201.256.155	Fully accessible suspended ceiling									
	Hallway 5									
201.256.155	Ceiling Finishes									
201.256.155	Fully accessible suspended ceiling									
201.256.160	Fittings and Furnishings									
201.256.156	Disabled WC									
201.256.157	Fixtures and Fittings									
201.255.160	WC Fixtures and Fittings									
201.255.160	Cleaners Sink									
	Cleaners TeaPoint									
	Fixtures and Fittings									
201.255.160	Cleaners Sink									
	Staff WC									
	Fixtures and Fittings									
201.255.160	WC Fixtures and Fittings									
201.255.160	Cleaners Sink									
	Mess Kitchen									
	Fixtures and Fittings									
201.255.160	Kitchen Facilties									
201.255.160	Furniture									

201.257	Other Rooms/Areas	Programn	Labour Type (from the LRM)	Labour Code (from LRM)	Shifts (Nr)	Labour Rate (from LRM £/Shift)	Labour Total (£)	Description	Amount	Unit of Measure (UoM)	Rate (£/UoM)	Materials Total (£)	Description	Amount	Unit (day / week / other)	Rate (£/Unit)	Plant Total (£)
201.257.135	Internal Walls and Partitions																
201.257.135																	
201.257.135																	
201.257.135																	
201.257.135		_															
201.257.135																	
201.257.135		_															
201.257.135 201.257.135																	
201.257.135																	
201.257.140	Internal Doors																
201.257.140	internal boots																
201.257.140																	
201.257.140																	
201.257.140																	
201.257.140																	
201.257.140																	
201.257.140																	
201.257.140																	
201.257.140																	
201.257.140																	
201.257.140																	
201.257.140																	
201.257.140																	
201.257.140																	
201.257.140 201.257.145	WIE																
201.257.145	Wall Finishes																
201.257.145																	
201.257.145																	
201.257.145																	
201.257.145																	
201.257.145																	
201.257.145																	
201.257.145																	
201.257.145																	
201.257150	Floor Finishes																
201.257.150																	
201.257.150																	
201.257.150																	
201.257.150																	
201.257.150																	
201.257.150																	
		_															
201.257.150 201.257.155	Ceiling Finishes																
201.257.155	Celling Finishes																
201.257.155																	
201.257.155																	
201.257.155																	
201.257.155																	
201.257.155																	
201.257.155																	
201.257.155																	

			_															
					Labour Code (from		Labour Rate (from				Unit of Measure					Unit (day / week /		
201.260 I	Platform		Programme	Labour Type (from the LRM)	LRM)	Shifts (Nr)	LRM £/Shift)	Labour Total (£)	Description	Amount	(UoM)	Rate (£/UoM)	Materials Total (£)	Description	Amount	other)	Rate (£/Unit)	Plant Total (£)
			Programme															
201.260.100		Substructure																
201.260.100		PT																
201.260.100		190mm Dense Concrete Block Work																
201.260.100		Reinforced In-situ concreteSecondary Structure																
201.260.100		Ex Tunnel																
201.260.100		Reinforced In-situ concreteSecondary Structure																
201.260.135		Internal Walls and Partitions																
201.260.135		PT																
201.260.135		Internal Walls and Partitions																
201.260.135		Dense Concrete Blockwork																
201.260.135		Blockwork Walls	1															
201.260.135		Windposts	1															
201.260.140		Internal Doors																
201.260.140		PT																
201.260.140		Internal Doors																
201.260.140		Single 1Hr Fire rated Doors Set																
201.260.140		Fire Selent																
201.260.145		Wall Finishes																
201.260.145		PT																
201.260.145		Public Areas																
201.260.145		Tiling on Render	1															
201.260.145		Fire Selent	1															
201.260.145		Skirting Curved	1															
201.260.145		Painting -BOH	1															
201.260.145		Painting - FOH	1															
201.260.145		E/O for Connection Details																
201.260.145		Dust Sealed Floors																
201.260.145		Edge Details																
201.260.145		Line Marking - Line	1															
201.260.145		Line Marking - Wording																
201.260.145		Cleaners Sink																
201.260.145		Ex Tunnel																
201.260.145		Public Areas																
201.260.145		Tiling on Render																
201.260.145		Skirting Curved																
201.260.145		Breakout existing Concrete Strucrtues - 0-300mm																
201.260.145		Making Good Concrete Slab																
201.260.150		Floor Finishes																
201.260.150		PT																
201.260.150		Public Areas																
201.260.150		Terrazzo tiling on screed																
201.260.150		100mm Screed																
201.260.150		Ex Tunnel																
201.260.150		Public Areas																
201.260.150		Terrazzo tiling on screed																
201.260.150		100mm Screed																
201.260.150		DDA Hump for step free access Northern Line existing	ng platform															
201.260.155		Ceiling Finishes																
201.260.155		PT																
201.260.155		Fully accessible suspended ceiling																
201.260.155		Accoustic Lining																
201.260.155		CMS Cladding																
201.260.155		Ex Tunnel																
201.260.155		Public Areas																
201.260.155		Accoustic Lining																

500 Control Systems

		7		1		Labour								1	1		
			Labour			Labour Rate (from				Unit of							
204 270	Station Signage		Type (from		Chiffe (NI-)	LRM	Labarra Tatal (C)	Danasiation	A	Measure	Rate	Materials Total (C)	Description	A	Unit (day / week /	Data (Ciliais)	Diana Tatal (C)
201.270	Station Signage	Programme		(from LRM)	Shifts (Nr)	£/Shift)	Labour Total (£)	Description	Amount	(UoM)	(£/UoM)	Materials Total (£)	Description	Amount	other)	Rate (£/Unit)	Plant Total (£)
	0.4.	Programme	9														Cor
201.270.100	Station Signage Station Signage-Non Illunminated																
201.270.100	Directional Sign																
201.270.100	Size 1200 x 400mm																
201.270.100	Projected from wall																
201.270.100	Suspended																
201.270.100	Emergency Do Not Enter	1															
201.270.100	Suspended																
201.270.100	Emergency Exit																
201.270.100	Projected from wall																
201.270.100	Lift Signage																
201.270.100	Wall mounted																
201.270.100	Wall mounted	_															
201.270.100	PHP Beacon																
201.270.100	Projected from wall	_															
201.270.100	Exit Guide Panel																
201.270.100	Wall mounted																
201.270.100 201.270.100	Identification Sign Projected from wall																
201.270.100	Lift Signage																
201.270.100	Wall mounted																
201.270.100	Wall mounted Wall mounted																
201.270.100	PHP Beacon																
201.270.100	Projected from wall																
201.270.100	Emergency Do Not Enter																
201.270.100	Transom incorporated into transom below fascia	a															
201.270.100	Identification Sign																
201.270.100	Fascia integrated into station entrance fascia																
201.270.100	Station Roundel																
201.270.100	Projected from side of building																
201.270.100	Directional Sign	_															
201.270.100	Suspended	-															
201.270.100	Projected from PES	_															
201.270.100	Wall mounted	-															
201.270.100 201.270.100	Emergency Exit Ceiling mounted	_															
201.270.100	Projected from PES																
201.270.100	Projected from wall	_															
201.270.100	Wall mounted																
201.270.100	Wall mounted																
201.270.100	Lift Signage	1															
201.270.100	Wall mounted																
201.270.100	Wall mounted																
201.270.100	Line Diagram																
201.270.100	Wall mounted																
201.270.100	Network Diagram																
201.270.100	Wall mounted																
201.270.100	PHP Beacon																
201.270.100	Projected from wall																
201.270.100 201.270.100	Suspended Roundal Panel																
201.270.100	Wall mounted																
201.270.100	Undefined Operational Noticeboards Signage a	and the like															
201.270.100	Customer Information Screen	The the like															
201.270.100	Wall mounted																
201.270.100	Directional Sign																
201.270.100	Projected from PES																
201.270.100	Emergency Exit																
201.270.100	Projected from PES																
201.270.100	Exit Guide Panel																
201.270.100	Wall mounted																
201.270.100	Line Diagram																
201.270.100	Wall mounted																

500 Control Systems

		_				Lohour											
			Labour			Labour Rate (from				Unit of							
204 270	Station Signage		Type (from	Labour Code	Chiffe (Na)	LRM	Labarra Tatal (C)	Danasinsian	A	Measure	Rate	Materials Total (C)	Description	A	Unit (day / week /	Data (Ciliais)	Diant Tatal (C)
201.270	Station Signage	Programme		(from LRM)	Shifts (Nr)	£/Shift)	Labour Total (£)	Description	Amount	(UoM)	(£/UoM)	Materials Total (£)	Description	Amount	other)	Rate (£/Unit)	Plant Total (£)
201.270.100	Network Diagram	Programme															Cor
201.270.100	Wall mounted	_															
201.270.100	PHP / Fire Hydrant Beacon	-															
201.270.100	Projected from wall																
201.270.100	Roundel Panel	_															
201.270.100	Wall mounted																
201.270.100	Trackside Roundel																
201.270.100	Wall mounted																
201.270.100	Customer Information Screen																
201.270.100	Wall mounted																
201.270.100	Directional Sign																
201.270.100	Projected from PES																
201.270.100	Emergency Exit																
201.270.100	Projected from PES																
201.270.100	Wall mounted																
201.270.100	Exit Guide Panel	_															
201.270.100	Wall mounted																
201.270.100	Line Diagram	_															
201.270.100 201.270.100	Wall mounted Network Diagram	_															
201.270.100	Wall mounted	-															
201.270.100	PHP / Fire Hydrant Beacon																
201.270.100	Projected from wall	_															
201.270.100	Roundel Panel																
201.270.100	Wall mounted																
201.270.100	Trackside Roundel																
201.270.100	Wall mounted																
201.270.100	Emergency Exit																
201.270.100	Projected from wall																
201.270.100	Emergency Exit																
201.270.100	Projected from wall																
201.270.100	Directional Sign																
201.270.100	Projected from wall	_															
201.270.100	Emergency Do Not Enter	_															
201.270.100	Suspended	-															
201.270.100	Emergency Exit Projected from wall	_															
201.270.100	Lift Signage (Directory)																
201.270.100	Wall mounted	_															
201.270.100	Lift Signage (Identification)																
201.270.100	Wall mounted																
201.270.100	Line Diagram Panel																
201.270.100	Wall mounted																
201.270.100	PHP / Fire Hydrant Beacon																
201.270.100	Projected from wall																
201.270.100	PHP Beacon	_															
201.270.100	Projected from wall	_															
201.270.100	Directional Sign	_															
201.270.100	Projected from wall	_															
201.270.100 201.270.100	Suspended Emergency Exit	_															
201.270.100	Projected from wall																
201.270.100	Line Diagram Panel																
201.270.100	Wall mounted																
201.270.100	PHP / Fire Hydrant Beacon																
201.270.100	Projected from wall																
201.270.100	PHP / Fire Hydrant Beacon																
201.270.100	Projected from wall																
201.270.100	PHP Beacon																
201.270.100	Projected from wall																
201.270.100	Totem; including monolith and fingerposts																
201.270.100	As generic station totem family drawings																
201.270.100	Powered Access Equipment																

500 Control Systems

						Labour											
			Labour			Rate (from				Unit of							
			Type (from	Labour Code		LRM				Measure	Rate				Unit (day / week /		
201.270	Station Signage	Programme	the LRM)	(from LRM)	Shifts (Nr)	£/Shift)	Labour Total (£)	Description	Amount	(UoM)	(£/UoM)	Materials Total (£)	Description	Amount	other)	Rate (£/Unit)	Plant Total (£)
		Programme															Cor
201 270 100	Detailed Design																

201.300	Lifts &	Escalators		Labour Type (from the LRM)	Labour Code (from LRM)	Shifts (Nr)	Labour Rate (from LRM £/Shift)	Labour Total (£)	Description	Amount	Unit of Measure (UoM)	Rate (£/UoM)	Materials Total (£)	Description	Amount	Unit (day / week / other)	Rate (£/Unit)	Plant Total (£)
204 200 400	Casalatas	Custom	WBS Ref															
201.300.100	Escalator	Escalator CL																
201.300.97 201.300.98 201.300.99 201.300.100		Escalators NL to DLR																
201.300.99		Escalators TH to Basement																
201.300.100		Escalators Basement to NL																
201.300.105	Passenge	r Conveyor																
201.300.105 201.300.105		Moving Walkways																
201.300.120	Traction L	ift																
201.300.120		Lifts																

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201.510	Electrical (AC Only)	Programme	Labour Type (from the LRM)	Labour Code (from LRM)	Shifts (Nr)	Labour Rate (from LRM £/Shift)	Labour Total (£)	Description	Amount	Unit of Measure (UoM)	Rate (£/UoM)	Materials Total (£)	Description	Amount	Unit (day / week / other)	Rate (£/Unit)	Plant Total (£)
201.510.120	Tunnel Lighting																
201.510.115	Electrical																
201.510.115	Tunnel area available for lighting																
201.510.115	Install Tunnel Lighting Distribution Equipment																
201.510.115	Install containment J Hangers																
201.510.115	Install Tunnel Lighting Cables																
201.510.115	Install Tunnel Lights																
201.510.115	Install Tunnel Power Cables																
201.510.120 201.510.115 201.510.115 201.510.115 201.510.115 201.510.115 201.510.115 201.510.115 201.510.115	Install Tunnel Power Outlets																
201.510.115	Testing & Commissioning																

500 Control Systems

				Labour Code (from		Labour Rate (from				Unit of Measure					Unit (day / week /		
201.52	20 Communications & Other Systems	Programme	Labour Type (from the LRM)	LRM)	Shifts (Nr)		Labour Total (£)	Description	Amount	(UoM)	Rate (£/UoM)	Materials Total (£)	Description	Amount	other)	Rate (£/Unit)	Plant Total (£)
201.520.	140 Other Systems						0.00										
201.520.	140 Install Motor Control panels (MCP)																
201.520.	140 Ist fix BMS equipment																
201.520.	140 Install Cabling																
201.520. 201.520. 201.520. 201.520.	140 2nd fix BMS equipment																
201.520.	140 BMS Commissioning																

500 Control Systems

										Unit of							
004 040	Fortamed Michigan	_		Labour Code (from		Labour Rate (from				Measure					nit (day / week /		
201.610	External Works	Programme	Labour Type (from the LRM)	LRM)	Shifts (Nr)	LRM £/Shift)	Labour Total (£)	Description	Amount	(UoM)	Rate (£/UoM)	Materials Total (£)	Description	Amount	other)	Rate (£/Unit)	Plant Total (£)
201.610.120	Forecourt & Paving																
201.610.120	Whole Block Work Site																
201.610.120	Break Kerb Line Additional Cannon Street Access cost																
201.610.120																	
201.610.120	Dispose of off Site																
201.610.120	Compact Bottom of Excavation																
201.610.120	Type 1 Sub Base																
201.610.120	Regulating Course C8/10 Lean Mix																
201.610.115	Supply and Lay COL Shallow Mount Bollards																
201.610.115		1															
201.610.120																	
201.610.120	Kerbing Stones																
201.610.120																	
201.610.120																	
201.610.120	Works around services chambers and protection																
201.610.120	Set Level of Chamber / Cover																
	Nicholas I and Access Read																
201.610.120	Nicholas Lane Access Road Break Kerb Line																
201.610.120	Break not existing paving/road and sub base to 250mm																
201.610.120	Dispose off site to tip (assume grab)																
201.610.120	Saw cut to KWS and Nicholas Lane junction 300mm deep																
201.010.120	Excavate trench 300m deep 300mm wide for key to ramp at KWS																
201.610.120	junction with Nicholas Street																
201.610.120																	
	Supply Concrete to Form ramp up from road level at KWS to Top of	1															
201.610.120	existing pavement in Nicholas Lane from concrete																
201.610.120	Compact bottom of excavation																
201.610.120	Supply Regulation Course Concrete C8/10 lean mix 200mm																
	Supply and lay ATG Access Ltd City of London Bollards (Shallow Mount																
201.610.120	System)																
201.610.120																	
	Supply and lay C35 Concrete mix to Bollard base structure 150mm thk																
201.610.120	slab																
201.610.120	Supply and lay Block paving 90mm thk (existing is black asphalt cold rolled)																
201.610.120	Install Granite Drop Kerbs include bed and haunch													_			
201.610.120																	
201.610.120	Install Kerbs																
201.610.120																	
	Temporary works (Temporary edgings against existing construction)																
201.610.120	Tarmac/ Concrete																
201.610.120	Work around Service chambers and protection to them																
201.610.120	Re-level /set covers and frames (100mm approx)																
201.610.120	Signage (no through road etc)																
	Nicholas Lane Access Road																
201.610.120																	
201.610.120	Breakdown Gantry Crane Base																
201.610.120 201.610.120	Back filling of Aurther Street Shaft Planning off Aurther Street																
201.610.120	Installation of New Granite Kerb Line													_			
201.610.120	Lay 150mm MOT type 1 road base	1															
201.610.120	Lay 150mm Dense Base Course																
201.610.120	Lay 13011111 Dense Base Course Lay 80mm Dense Base Course																
201.610.120	Lay 20mm HRA Wearing Course																
201.610.120	Lay 50mm Wearing Course to Pvement																
201.610.120	Work around Service chambers and protection to them																
201.610.120	Re-level /set covers and frames (100mm approx)																
201.610.120	Road Markings																
201.610.120	Signage (no through road etc)																
201.610.140	Road Markings																
201.610.140	Linial Markings																

Appendix 6.3 Business Case Assistant (BCA) and BCA Assumptions Template

The Output form tab of the Business Case Assistant is attached here and is taken from Excel documents DRA_BCA MODEL_UPLIFTED 23 07 2013.xls and DRA_BCA ASSUMPTIONS MODEL_UPLIFTED 22 7 13.

Appendix 6.4 Passenger Modelling

The summary results of the Legion model are attached here and is taken from the Contractor's Works Information WI 2400.

Appendix 6.5 Risk Register



Risk No	Title	Risk Owner	Cause	Effect	Description
BA2-001	(RO1) TfL inflationary calculation underestimated potential costs	Employer	TfL forecast for indexation is insufficient		t TfL inflationary calculation methodologies leads to insufficient financial
BA2-015	(RO1) Implications of a lengthy blockade not acceptable to stakeholders	Employer	Complexity of construction and logistics (sequence of works), breakout working into existing operational tunnels, internal escalator and lift works, track laying and signals testing.	Requirement to design alternative methodologies / carry out more works in engineering hours	Closure duration required by the scheme may not be acceptable to stakeholders
BA2-010	(RO1) Emerging, non-TfL projects (e.g. Corporation of London, other major organisations) impacts on project works, results in time delays and traffic management issues. (over and above what has been included in the Works Information)	Employer	Emerging projects, lack of understanding of integration impacts.	Time delays, traffic management issues, additional project cost. Requirement to re-evaluate transport strategy	Emerging, non-LU projects (e.g. Corporation of London, other major organisations) impacts on project works, results in time delays and traffic management issues.
BA2-053	(RO1) Inability/ delay to secure funding associated with proposed schedule and cost profile following the annual spending review	Employer	Changes in business requirements. Internal governance takes longer than anticipated	Schedule prolongation	Inability / delay to secure funding associated with proposed schedule and cost profile following the annual spending review or funding is granted but over a longer programme
BA2-029	(RO1) Inability to negotiate the purchase of Crown Land (Crown Land; Greenwich Hospital - Property Acquisition) (A23)	Employer	CPO justification does not satisfy requirements	Delays and additional costs	Inability to negotiate the purchase of Crown Land (Crown Land; Greenwich Hospital - Property Acquisition
BA2-031	(RO1) Adverse market conditions when project goes to Tender (including risk of insufficient available tunnelling resource)	Contractor	Adverse market conditions when project goes to tender . Significant alternative workload (e.g. Crossrail and Thames Tideway) combined with reduced pool of skilled labour for hand dug tunnelling	Limited interest from supply chain or inflated prices for scarce resources	Overheated market conditions generally. Specific concerns include limited supply of skilled tunnelling resource
BA2-018	(RO1) TfL business drivers demand changes to project requirements and scope following contract award	Employer	Internal pressure for scope changes	Variation to contract, increased time and cost, revisit contract, re-price	TfL business drivers demand changes to project requirements and scope following contract award - (scope change not fully funded by business)
BA2-073	(RO1) Legal challenge of ICE process	Employer	Unsuccessful Contractors puts in claim re: fairness / application of criteria/ negotiation of innovation	Delays to negotiation over and above scheduled negotiation period	Legal challenge of ICE process on fairness leads to delays to the project
BA2-041	(RO1) Inadequate engagement and buy in from internal Employer stakeholders, station operation and maintenance teams prevents handover into use/operations.	Employer	Poor internal stakeholder management/engagement; conflicting stakeholder priorities	Lack of programme integration; programme delay & additional cost	Engagement with internal Employer stakeholders and station operation and maintenance teams is inadequate.
BA2-008	(RO2) Environmental Impact Assessment approved but with onerous conditions	Employer	Covers 67 potentially affected buildings. Demolition not adequately managed, unacceptable crowding on bus/tube/ground; insecure pedestrian routes, unacceptable performance (Highway network), larger land take	Objections, delays to the programme, cost impact to find alternative solutions, alternative working methods	Environmental Impact Assessment approved but with onerous conditions: Noise and vibration, Traffic and transport air quality, demolition and excavated material
BA2-007	(RO2) Planning approval for OSD delayed or granted with onerous conditions.	Employer	There is a requirement for planning approval for consent to demolish. Incomplete documentation; CoL not accepting submission; current design not compliant with policy	Increases risk to TWA - may lead to requirement to apply for planning for OSD & TWA at the same time .	Conservation area consent / planning approval for OSD delayed or granted with onerous conditions
BA2-042	(RO2) Disruption posed by special interest group: e.g. pressure groups during construction	Employer	Lack of engagement with external stakeholders, conflicting interests	Programme delayed by informal/formal action; additional costs	Disruption posed by external stakeholders: e.g. pressure groups during the works
BA2-066	(RO2) TWA takes longer than 21 months to be delivered due to a longer Inquiry / Judicial Review	Employer	Longer Public Inquiry; changes required in the design; poor preparation; exceptional volumes of objections	Re-design, additional costs due to new solution required	TWA takes longer than 21 months to be delivered due to a longer Inquiry/judicial review
BA2-005	(RO2)Failure to develop a robust transport case resulting in delay to submission in respect of Contractor obligations	Contractor	Failure to develop a robust transport due to design not meeting all the project requirements	Project delay and cost implications of redesign and resubmission	Failure to gain the Mayor approval to submit
BA2-047	(RO2) Inconsistency of documents and weak key witnesses at Inquiry beyond contractor obligations	Employer	Inconsistency of project team . Volume of documentation.	Delay to decision	Inconsistency of documents and weak key witnesses at enquiry



Risk No	Title	Risk Owner	Cause	Effect	Description
BA2-090	· ·	Contractor	Inconsistency of designers . Volume of documentation.	Delay to decision	Failure to produce adequate documents and witnesses to support the TWA process
BA2-002	(RO3) Unexpected conditions of services/utilities - water mains, gas mains, telecoms. Allowance in the base case not sufficient	Employer	Condition of asset in worse condition than survey indicated		Concern around cast iron nature of sewer/water mains - limited allowance in estimate for diversions/strengthening, IT infrastructure, gas, water, telecoms, unknown unknowns, DLR settlement
BA2-004	(RO3) Specific design solution on how to deal with piles strike proposed does not work	Contractor	Selected design solutions are inadequate to deal with piles strike given the data provided in the works information	Alternative solutions may be considered at additional cost and time delay - acquisition of buildings * Would increase if DLR Head shunt progressed	The specific design solutions developed by the Contractor to deal with piles strike proposed does not work
BA2-012	(RO3) Inability to meet the Northern Line closure in accordance with the programme and the site information	Contractor	Construction methodology - delays in programme, deadlines not achieved	, , , ,	Works are delayed beyond the 3 month buffer allowed for in the programme/ works take longer leading to an Inability to meet the NL closure in accordance with the programme
BA2-086	(RO3) Unforeseen impact on TfL rail infrastructure within the constraints of the Site Information provided	Contractor	Proximity of works to existing assets. Poor understanding of asset conditions/ unclear Safe Load Assessment (SLA)	Settlement causing prolonged closure of adjacent tunnels etc. leads to programme delay	Major safety-related impact on TfL rail infrastructure (Employer and DLR assets)
BA2-013		Employer	Limited information available, as builts incorrect	Pile collision . Requirement to change design or repair damage	Uncertainty as to depth and location of piles to existing structures leads to potential pile hit
BA2-024		Contractor	Poor condition, very fragile state of asset. Design is correct however level of settlement is outside the limits of settlement .	Additional protective and remedial works. additional costs and potential severe time impact Any costs of damage if design is correct but settlement is outside the limit of settlement will be covered by insurance. Any damage within the settlement limits will be covered by the contractor. Any damage caused by incorrect design will be covered by the contractor. * DLR head shunt inclusion in the scheme would increase impact of rick.	Settlement impact on St Mary Abchurch structure & Mansion House greater than allowed in for design
BA2-035	(RO3) Settlement impact on 3rd party buildings greater than allowed in for design (excluding St Mary Abchurch & Mansion house) within the constraints of the Site Information provided	Contractor	Poor condition of asset	Additional protective and remedial works. Additional costs and programme delay	Impact of settlement much greater than design solution given for assumed construction method
BA2-069	(RO3) Designated Network Operator (DNO) power supply capability not adequate leading to load application rejection	Employer	DNO capability unknown	Cost increase and impact on programme	Designated Network Operator (DNO) power supply capability unknown leading to load application rejection
BA2-026	(RO3) The cost of delivering the signalling systems is higher than anticipated	Employer	Signalling systems are incompatible requiring a replacement system. (Currently to be priced by the Contractors however LU could identify costs from the market to carry out the works)	Increased project costs	The cost of delivering the signalling systems is higher than anticipated
BA2-059	(RO3) Insufficient time allowed for in programme for design and assurance approvals from LU/stakeholders delay timescales	Contractor	Unclear approvals process, multiple issues raised due to conflicting concerns/interests	Programme delay and associated costs	Protracted design and assurance approvals from LU/stakeholders delay timescales. (Concept and Compliance)
BA2-072		Employer	Inaccurate surveys / surveys carried out but do not capture all ground conditions	Alternative solutions required leading to redesign and increased implementation costs	Unforeseen ground conditions (tunnelling)
BA2-076	(RO3) Slow mobilisation of the project team following contract award	Contractor	Following sign off the contract there may be a delay in recruiting the tender identified staff	Delays to the project and possible quality issues	There may be an initial delay following signing of the contract if the contractor team cannot be mobilised
BA2-092		Contractor	Failure of the contractor to meet his obligations of the works information	Increased costs, damage to services. Contractor will bear the programme delay	Concern around cast iron nature of sewer/water mains - limited allowance in estimate for diversions/strengthening, IT infrastructure, gas, water, telecoms, unknown unknowns, DLR settlement



Risk No	Title	Risk Owner	Cause	Effect	Description
BA2-033		Contractor	Damage to water utilities, from settlement caused by tunnelling	Additional costs associated with remedial works, reputational risk to LU	Flooding to station due to works
BA2-014	(RO3) Performance failure of supply chain and bankruptcy (post contract award)	Contractor	Industry demand for potential supply chain to work on other projects	Disruption to programme	Performance failure of supply chain, delayed escalator/lift delivery (main and sub contractors)
BA2-017		Employer	Uncertainty around MoD utilities in the area. Limited information available	Re-design, works stopped, delays	Unforeseen MoD utilities not identified in the built environment
BA2-034		Employer	Tunnelling route sensitivity, political pressure for change (Mansion House) - potential for pile clashes	Redesign, re scoping of tunnelling route, additional cost and time	Revised tunnelling route required due to internal and external (political) pressure (e.g. as a result of sensitivity around high-profile buildings)
BA2-037C		Contractor	Multiple projects and lack of co-ordination	Programme delays, additional design and installation. Lack of opportunity to integrate. Late design changes required	Possible systems integration risk. Non-signalling-related, centred on interface with Stations System Interface Upgrade Project,
BA2-037E	(RO3) Possible systems integration risk between SSIU and SCU beyond that set out in SSIU Project Requirement Statement (reference LUSTN-0002167- SPC-000002)	Contractor	Multiple projects and lack of co-ordination	Programme delays, additional design and installation. Lack of opportunity to integrate. Late design changes required	Possible systems integration risk. Non-signalling-related, centred on interface with Stations System Interface Upgrade Project,
BA2-044	(RO3) Discovery of archaeological artefacts	Employer	Discovery during site works, inadequate surveys	Programme delay & additional cost	Discovery of unexploded bombs, archaeology.
BA2-045	(RO3) Presence of ground contamination (in excess of GBC)	Employer	Poor survey information in KWS site	Programme delay & additional cost	Unforeseen ground contamination
BA2-057	(RO3) Unforeseen frustrated access	Employer	Engineering trains not available, constraints around pway	Programme delayed; additional cost	Frustrated access (i.e. inability to access Employer-controlled areas of existing station as a result of Employer operational reasons).
BA2-067	(RO3) Discovery of unforeseen asbestos - Station and any associated properties, over and above what could reasonably be expected	Employer	Discovery of unforeseen asbestos	Additional cost, programme delay	Discovery of unforeseen asbestos over and above allowance in cost plan
BA2-074	(RO3) Delays to obtaining contractor approvals within the agreed LUL approval process	Employer	The approval of contractor documents may take longer than initially expected	Delays to the project	Works are delayed/ gates are missed due to onerous approvals process
BA2-078		Employer	PFIs do not perform to schedule	Delays to the project	Project delays from PFIs taking longer to respond / carry out works than first envisaged
BA2-088	(RO3) Sewers: diversion infrastructure/ access and availability may not be sufficient to enable protection works to be installed.	Employer	Flow to sewer is likely to have to be reduced to enable the installation of strengthening/ lining. Sewer flow is likely to need to be diverted and possibly undertaken in period of dry weather. Access to sewers for this work may also be difficult e.g. London Bridge sewer has previously been strengthened by access through night time road closures of King William Street.	additional money and delays	Cannot divert sewers to carry out protection works
BA2-064	(RO3) Exceptionally adverse weather	Employer	Particularly adverse weather conditions. Less frequent than 1/10 years	Deliveries delayed, concrete production delayed etc.	Exceptionally adverse weather
BA2-089	Construction methodology around construction within proximity of the live utilities from Shaft 3/782 and 3/781	Contractor	Construction of the CL escalator in conjunction with the requirement to maintain the HV transformers in operation during the works	Additional protection / requirement to provide an additional, larger transformer in an alternative location	There may be a requirement to provide an alternative transformer for the station in lieu of retaining the existing one
BA2-046	(RO3) Operational - Severity of safety measures required to run station during construction	Contractor	Extensive re routing of customers including additional customers re-routed via King William Street It is likely that an additional staff costs will be covered by the Signal Requirements Team (SRT) however there may be additional costs for PA announcements, signage and there may be a risk that additional staff for the Central line are not funded by SRT or SRT may not be able to supply all additional staff which may lead to a requirement to seek external employees.		Operational - Severity of safety measures required to run station during construction



Risk No	Title	Risk Owner	Cause	Effect	Description
BA2-061	(RO2) Lack of consistency of key resources	Employer	Death or incapacity of an inspector/key resource.	Loss of key people at enquiry leading to delay.	Lack of consistency of key resources
BA2-068	(RO3) Unknown conditions and location of LU station services/assets/ grey assets over and above what is in the Site Information	Employer	Poor information available. Insufficient surveys undertaken	Additional cost and time delays for upgrade, surveys, investigations at project cost	Unknown conditions and location of LU station services/assets e.g. cablings substandard etc.
BA2-077		Employer	Political change - proposed changes to working practices	Delays to work if site access is frustrated	Works may be delayed / access may be frustrated due to industrial action
BA2-079	(RO3) - H&S incident- there may be a incident on site which could delay the works	Contractor	H&S incident on site	Delay to the project and reputational impact	There is a risk that should there be a HS& incident on site there may be delays / reputational impact on the project
BA2-087	(RO3)Artesian wells liners on the tunnel alignment within the constraints of the Site Information provided	Contractor	Artesian wells along or close to the new tunnel alignment will be impacted by the construction works	Provision of new wells or modification to existing building services may be required. To mitigate this tunnelling method will need to allow for passing through sleeved wells. Existing wells may have to be capped / filled to prevent contamination	Artesian wells - well liners on the tunnel alignment - conduit to the chalk aquifer, will need to be removed during the construction process.
BA3-001	LU reject the tall plant concession	Contractor	Contractor does not follow the required procedure to obtain approval for the concession	Assumptions relating to the execution of the works, methodology, timing, costs, risks etc. will have to be re-assessed. This may result in additional costs.	A set of assumptions, relating to tall plant concession, with resulting cost / schedule implications to be factored into the base cost / schedule and risk register.
BA3-002	Unavailability of preferred location for accommodation	Contractor	There may be a delay in securing the accommodation as required	Inefficient working resulting in delays and costs	Consider alternative suitable accommodation
BA3-003		Contractor	Underestimation of project complexity	Target Cost too low	General checks
BA3-004		Contractor	Logistical arrangements to execute the works (lorries,	Severe restrictions are placed upon	Develop traffic management and logistics plan. Model assumptions and take cognisance of these in the base cost, schedule and risk register
BA3-005	Delays in connection with the obtaining of all consents needed to enable the construction of the works	Contractor	CoLC and other agencies have limited resources and /or protracted consents processes		Early engagement with CoLC and other agencies to ensure consents are granted to meet the LU / Dragados's timescales
BA3-006	Delays caused by a failure to comply with the noise and vibration limits stated in the Works Information for the works	Contractor	Section 61 agreement breached having used all best practicable means.	The works are delayed / restructured. Lower productivity	Develop robust working procedures in the Environmental Plan and implement these at the contract outset
BA3-007	Generic / Site-wide Materials and equipment handling difficulties on platforms	Contractor	Limited space at LU platforms to move equipment and materials in and out of work site affects production	Delays to the works Increased risk of injury	Early site surveys, liaison with LU and other stakeholders. Implement effective worksite controls and working arrangements / coordination with others. Plan and cost estimate to be based on assumptions and risks identified.
BA3-008 BA3-010	., .	Contractor Contractor	Completed works are not sufficiently protected Designs and / or materials do not comply with LU's standards	Extra works required Rework. Programme delays and additional costs	Standard level of protection. Work closely with LUL to ensure all materials, designs etc. meet their standards. Develop good stakeholder relations with LUL from the contract outset and throughout the works
BA3-011	M&E Contractors delayed due to lack of coordination with system wide contracts	Contractor	System-wide works could adversely affect the Dragados by delaying the programme of works either directly or indirectly.	There could be delays or increased costs	Review of information supplied at tender stage to highlight specific risk, impacts and mitigating actions
BA3-014	Generic / Site-wide MEP Programme Risk during commissioning and handover period	Contractor	Insufficient time for commissioning.	Commissioning and handover delayed	Work early with system-wide contractors and other contractors. Develop a robust plan and schedule of risks to identify and work around any potential delays and cost increases.
BA3-015	Generic / Site-wide Handover / Handback requirements underestimated	Contractor	Health and safety files, Inspection testing commissioning handover and bringing into use (LUL)	Additional costs due to underestimated requirements	Develop a robust testing and commissioning plan. Develop this in concert with all affected stakeholders to ensure it is comprehensive, realistic and achievable
BA3-016	EMC compliance failure of permanent works	Contractor	EMC tests may fail as a system even if the individual constituents pass.	Incurs unplanned expense, possibly programme delays	External specialist to be engaged, financial risk provision to be applied
BA3-019		Contractor	Lack of available information	Costs or delays	Review of information supplied at tender stage to highlight specific risk, impacts and mitigating actions
BA3-020		Employer	Lack of available information	Costs or delays	Review of information supplied at tender stage to highlight specific risk, impacts and mitigating actions



Risk No	Title	Risk Owner	Cause	Effect	Description
			Lack of available information		Review of information supplied at tender stage to highlight specific risk, impacts
BA3-021	Depth of pile shoes are at higher level than within the Site Information provided	Employer	Lack of available information	Costs or delays	and mitigating actions
BA3-022	Access assumptions are incorrect	Contractor	Assumptions are incorrect	Costs, delays or other objectives may be adversely affected	Work closely with LUL etc. to ensure any uncertainty is addressed
BA3-024	Scope Uncertainty	Contractor	Unknown when estimating quants, prices etc.	Costs or delays	Scope or quants are over / under estimated
BA4-001		Contractor	Lack of knowledge of extent or scope requirements Underestimation of design requirements	Delays to programme and consequential increase in design fees	There is a risk that the amount of design input required is underestimated
BA4-005	3rd Party compensation costs are insufficient	Employer	Requirement to provide compensation costs for affected neighbouring buildings		There may be a requirement to provide additional compensation costs over and above what has been allowed for.
BA4-007	COL object to OSD as does not comply with planning brief	Employer	OSD produced does not comply with planning brief	Delays / redesign required	CoL may be object due to OSD not complying with planning brief
BA4-008		Contractor	A number of assumptions will be made for the design which may prove to be incorrect	Changes to design / delays	There is a risk that the design assumptions made prove to be incorrect
BA4-009		Contractor	Works overrun	Impact on operational railway	There may be a delay to handback over the station following closures which would impact on the operational railway
BA4-010	Missed planned closures	Contractor	Works required prior to closures are not complete	Closure not used / new closure needs to be booked	
BA4-011	Installation of TAMs causing unacceptable settlement	Contractor	TAM installation cause settlement	Delays to works	The installation of the TAMs could cause settlement which could slow the works down / lead to remedial works required
BA4-012		Employer	Alternative project may have requested space	Requirement to redesign to work around	Space allocation rejected leading to requirement to redesign or resubmit
BA4-013		Employer	Full scope of training has not been allowed for	Additional costs to cover staff training	There may be additional costs / delays to complete training
BA4-014	-	Employer	Existing LUL as builts are incorrect	Requirement to redesign to work around	There may be delays / changes to design to accommodate incorrect as built drawings
BA4-016		Contractor	Type approval may not be granted	Alternative solution may be required	Delays / additional cost may be incurred from alternative track slab proposal
BA4-017	Additional works required at Moorgate to support blockade	Employer	Additional staff accommodation / staff to facilitate blockade	Additional cost to cover staff costs and accommodation	There may be an increase in cost due to a requirement to provide staff accommodation and extra staff for the blockade period
BA4-018	Insufficient slack in Central Line Invert cables	Contractor	Existing condition of central line invert cables	Additional cost to provide additional cabling	There may be a risk of additional cost from a requirement to provide extra central line invert cables
BA4-019	Delayed access	Employer	May not get Vacant Possession for KWS site at required time	Delays to start on site	There may be a delay to start on site due to inability to gain access to site at required time
BA4-020C	Additional works to existing tunnels	Contractor	Tie-ins may require additional works due to methodology not working	Additional works / costs	The methodology proposed may result in additional costs to remediate the tunnels
BA4-020E	Additional works to existing tunnels	Employer	Tie-ins may require additional works due to existing asset not being in the expected condition	Additional works / costs	The condition of the tunnels may result in additional costs to remediate the tunnels
BA4-021C	Access assumptions to carry out monitoring are incorrect	Employer	Access may not be granted to key sites for monitoring within the process outlined in the Works Information	Delays to securing monitoring equipment	There may be a delay to start of works if there is insufficient monitoring evidence recorded
BA4-021E	Access assumptions to carry out monitoring are incorrect as described in the Works Information	Employer	Access may not be granted to key sites for monitoring	Delays to securing monitoring equipment	There may be a delay to start of works if there is insufficient monitoring evidence recorded
BA4-022	Plant failures	Contractor	Key plant fails on site	Cost to replace / time delay	There may be a time delay associated with plant failures of key pieces of kit
BA4-023	Scope of monitoring exceeds budget	Contractor	Monitoring requirements underestimated	Increased costs associated with additional monitoring	There may be an increased in costs due to an increase in monitoring scope
BA4-024C	Maintenance of new works during construction / existing works that cannot be accessed due to contractor works	Contractor	Insufficient allowance for maintenance of the works during construction	There may be additional costs to cover maintenance of the works	There maybe additional costs associated with maintenance of the station during construction
BA4-024E	Maintenance of existing station during construction	Employer	Insufficient allowance for maintenance of the works during construction	There may be additional costs to cover maintenance of the works	There maybe additional costs associated with maintenance of the station during construction
BA4-025C	Concessions not granted (ALARP)	Contractor	Existing and proposed concessions may not be granted	Delays to works / requirement to redesign	There may be additional costs associated with a requirement to resolved un approved concessions
BA4-025E	Concessions not granted	Employer	Existing and proposed concessions may not be granted	Delays to works / requirement to redesign	There may be additional costs associated with a requirement to resolved un approved concessions
BA4-026	Access is not permitted during stage 1 for enabling works	Employer	Enabling works may not be able to be carried out prior to TWA approval	Impact on programme	There may be delays to the project from a requirement to carry out enabling works later than planned in the contractor programme
BA4-027	Potential requirement to provide permanent strengthening to bridge	Employer		Additional cost and time to carry out works	There may be additional cost and time to the programme to permanently strengthen the bridge



Risk No	Title	Risk Owner	Cause	Effect	Description
BA4-028C	Piling within 6m inclusion zone within ALARP	Contractor	Existing LUL standard for protection of infrastructure	Alternative methodology required	There may be a requirement to provide an alternative methodology to meet the requirements
BA4-028E	Piling within 6m inclusion zone	Employer	Existing LUL standard for protection of infrastructure	Impact on ticket hall size	Alternative solution which may not meet business case requirements
BA4-029C	Extra CCTV required for ring of steel at Arthur Street	Contractor	Works imposed on existing CCTV provision for local site facilities	Additional costs	There may be additional cost from a requirement to provide additional CCTV
BA4-029E	Extra CCTV required for ring of steel at Arthur Street	Employer	TWAO related requirements	Additional costs	There may be additional cost from a requirement to provide additional CCTV
BA4-030	Requirement to increase tunnel diameter if use of floating track slab	Employer	Floating track slab solution may require bigger tunnel	Increased cost and delays in constructing floating track slab	There may be an increased in cost and potential programme delay from a requirement to make the tunnels bigger to accommodate the floating track slab
BA4-032	Requirement to carry out works in 3x8 shifts vs 2/12 shifts	Employer	Safety concerns	Additional cost but potential saving on time	There may be additional cost associated with alternative shift patterns
BA4-035	Pan TfL L&E contract	Contractor	Currently do not have a manufacturing slot booked for 12no escalators + travelators	Delays to the project	There maybe delays associated with securing and gaining delivery of lifts and escalators
BA4-044	Requirement to provide additional traffic management / lorry specifications to comply with cyclist safety measures / bus stop changes		TfL guidelines	Additional project costs	TfL guidelines change to stipulate additional protection to cyclists
BA4-045	Insurance costs greater than expected	Employer	Market hardens, or insurers don't like the design or construction methodology, event on other project	Increased in insurance premiums	Additional insurance costs to be covered by the project
BA4-046	Cost of planning resource from CoL	Employer	CoL may charge LUL for planning resource	Additional project costs	CoL may be cross charge LUL for planning resources to meet the BSCU requirements
BA4-047	Risks associated with demolition	Contractor	Existing structures may not be as expected	Additional costs and time delays	There may be greater work than anticipated in carrying out the demolition on site leading to additional costs and time delays
BA4-048	Issues with existing cable migration from old HV system to new (LU and DNO) following surveys	Employer	Cable may not be in anticipated condition	Additional costs	There may be additional costs to replace cabling
BA4-049	Additional cabling/containment for incoming feeds from Mile End and Liverpool St and outgoing to St Paul should cable jointing not be acceptable	Employer	Cable jointing may not be acceptable	Requirement to provide additional cabling to allow for no jointing	There may be additional costs associated with a requirement to provide additional cabling to avoid jointing
BA4-050	IM costs exceed those allowed for	Employer	IM costs / relocation, demobilisation and remobilisation	Additional project costs	There may be additional project costs from IM requirements being greater than anticipated

Appendix 6.6 Programme

