

Asset Type	Line Total Asset Base				Total
	Bakerloo	Central	Victoria	Waterloo & City	
Lighting Support Sub-Surface					
Lighting Tower			1		1
Linear Station Staircase	34	103	42		179
Linear Trackside Staircase					
Load Gauge		1	1		2
Lower Machine Chamber	11	33	14		58
Open Platform		52			52
Over Bridge		30		1	31
Pipe Bridge					
Pipe Crossing – Over		1			1
Pipe Crossing – Under		24			24
Platform Canopy		45			45
Retaining Wall	23	301	7	1	332
Roof Support Structure	8	9	8		25
Shaft Structure	24	44	20	3	91
Signal Gantry		7			7
Spiral Staircase	9	11	2		22
Station Entrance Canopy	6	35	8		49
Station Viaduct		2			2
Sub Generating Platform	2	3	1		6
Sub-Surface Platform		7	2		9
Subway	2	28	5		35
Travelling Access Gantry					
Under Bridge	9	63	1		73
Upper Machine Chamber	10	31	14		55
Ventilation Plant Structural Elem	23	49	32		104
Ventilator		1			1
Viaduct		15			15

Asset Type	Line Total Asset Base				Total
	Bakerloo	Central	Victoria	Waterloo & City	
Water Tower					
Watertight Door	12	5			17
Total	417	4158	388	19	4979

BCV – Earth Structures (ES)

Asset Type	Bakerloo	Central	Victoria	Total
Cuttings (km)		129		129
Embankments (km)	4	158	2	164
Total	4	287	2	293

BCV – Deep Tube Tunnels (DTT)

DTT Asset Type (No.s)	Bakerloo	Central	Victoria	Total
Running Tunnel	35	55	48	140
Station Area	204	441	187	832
Station Platform Tunnel	28	52	23	103
Station Shaft	56	97	28	181
Tunnel Crossover	9	11	9	31
Tunnel Passage	48	148	147	363
Tunnel Shaft	4	20	25	50
Total	384	824	477	1708

SSL – Bridges and Structures (B&S)

Asset Type	Line Total Asset Base			Total
	District	Hammersmith & City	Metropolitan	
Access Gantry	25	15	18	58

Asset Type	Line Total Asset Base			
	District	Hammersmith & City	Metropolitan	Total
Ballast Retaining Wall	4	1	202	25
Brick Tunnel	63	1	48	112
Cable & Pipe Bridge	67	6	66	139
Cable Draw Pit	249		48	327
Cable Run	695	41	1368	2104
Cable Stile	124	2	210	336
Chimney	2	1	1	4
Covered Way	39		21	60
Culvert (over 600mm)	9		29	38
Culvert (up to 600mm)			1	1
Deep Tube Platform	10		16	26
Detraining Platform Structure			5	5
Escalator Support Frame/Truss	25		42	67
Floodboard	1			1
Floodgate	16			16
Foot Bridge	54	2	61	117
Free Standing Wall	18	7	18	43
Generic Consolidated Record				0
Girdering	299	44	301	644
Intermediate Machine Chamber				0
Lift Structure Steelwork	15	4	12	31
Lighting Mast Column	34	2	42	78
Lighting Standard	18		17	35
Lighting Supp. Open Platform	245	79	555	879
Lighting Support	63	7	78	148
Lighting Support Sub-Surface	5		2	7
Lighting Tower	2			2
Linear Station Staircase	121	34	106	261

Asset Type	Line Total Asset Base			Total
	District	Hammersmith & City	Metropolitan	
Linear Trackside Staircase	2		1	3
Load Gauge				0
Lower Machine Chamber	17	1	16	34
Open Platform	58	13	52	123
Over Bridge	47	2	61	110
Pipe Bridge		2		2
Pipe Crossing – Over	15		11	26
Pipe Crossing – Under	24	3	20	47
Platform Canopy	578	17	57	131
Retaining Wall	318	24	326	668
Roof Support Structure	7	3	7	17
Shaft Structure	22	4	20	46
Signal Gantry	53	15	16	84
Spiral Staircase	3		5	8
Station Entrance Canopy	27	5	31	63
Station Viaduct				0
Sub Generating Platform	1		1	2
Sub-Surface Platform	30		18	48
Subway	11	2	14	27
Travelling Access Gantry	4			4
Under Bridge	107	23	77	207
Upper Machine Chamber	17	1	16	34
Ventilation Plant Structural Elem	9		14	26
Ventilator	16	3	13	32
Viaduct	27	15	3	45
Water Tower	2		2	4
Watertight Door	3		3	6

Asset Type	Line Total Asset Base			Total
	District	Hammersmith & City	Metropolitan	
Total	3110	379	3869	12340

SSL – Earth Structures (ES)

Asset Type	District	Hammersmith & City	Metropolitan	Total
Cuttings (km)	103		161	264
Embankments (km)	88	7	211	306
Total	191	7	372	863

SSL – Deep Tube Tunnels

DTT Asset Type (No.s)	District	Hammersmith & City	Metropolitan	Total
Running Tunnel	2			2
Station Area	66		167	233
Station Platform Tunnel	22		30	52
Station Shaft	27	1	48	76
Tunnel Crossover				
Tunnel Passage				
Tunnel Shaft	3	2		5
Total	120	3	245	368

Schedule 1 – Specification

SCOPE 2 – Bridges & Structures Maintenance (Planned Preventative Maintenance)

1. Description of the Works

- 1.1 The Supplier shall provide Planned Preventative Maintenance intervention activities to Bridges & Structures assets as detailed below. The Supplier shall ensure that all works are carried out in accordance with London Underground and National Standards as well as Statutory Obligations required by Law which are current throughout the life of the Contract.
- 1.2 The Supplier shall research and identify innovative products, methods of working and overall health, safety and environmental practices to ensure the continual improvement of this scope. The Supplier is encouraged to engage with the Company to arrange trial innovations for any such improvements, and work in accordance with good industry practice and best practice.
- 1.3 The Supplier shall be responsible for delivering all the requirements of this scope, including but not limited to, the supply of all labour, overheads, consumables, materials, access equipment and any plant necessary to undertake the required tasks.

2. Scope of Services

- 2.1 The Supplier shall undertake Planned Preventative Maintenance intervention activities to Bridges & Structures assets as identified by the AP-JNP.
- 2.2 The 'Bridges & Structures' Portfolio of assets for AP-JNP consists of the following asset groups and associated volumes.
 - Bridges & Structures – over 4,000 individual assets with 1,972 'major structures'
 - Deep Tube Tunnels – over 219km of Tunnel Assets
 - Earth Structures – 80km of Earth Structures

NOTE: Full details of the JNP asset base are contained within the attached Annex A.

- 2.3 The types of interventions covered under Planned Preventative Maintenance scope are summarised below.
 - Vegetation Clearance from Structures
 - Earth Structures Transect Clearance
 - Guttering & Downpipe Repairs, Alterations and Clearing
 - Bridge Drainage Maintenance (vegetation, weep holes, minor repairs, etc.)
 - Fabrication & Installation of Asset ID Plates
 - Installation of Various Monitoring Regimes to Assess Asset Performance & Condition.

- Proactive Seepage Surveys on Civils Structures (tunnels, bridges, disused areas)

3. Planned Preventative Services

- 3.1 The Supplier is to provide a detailed and compliant programme to the Company detailing the critical path(s) and dependencies to deliver the contracted requirements.
- 3.2 The Supplier shall include in all cases, where appropriate, hold points for delivery for compliant standards of workmanship.
- 3.3 It is expressly required that Suppliers visit the sites designated for repair prior to submitting their tender.
- 3.4 All specifications and instructions for the required 'Planned Preventative' scope activities will be defined by the Company and included within the 'scope document' included within the tender pack.
- 3.5 For each specific scope/brief, the Supplier must have in place prior to any works commencing, an approved and compliant; Method Statement, Site Risk Assessment and any other assurance documents that may apply to the works, for example, in some cases, an approved 'Temporary Works Design' may be required for enabling works to commence.
- 3.6 Dependant on the nature of the works, the Supplier is responsible to make adequate and appropriate checks throughout the works for any environmental requirements such as; noise, hazardous waste transfer, etc. All environmental allowances must be assessed and appropriately allowed for by the Supplier to ensure compliance with legislation and standards throughout.
- 3.7 Any deviation(s) to the contracted scope of work(s) need to be agreed with the Company prior to any changes taking place. Any deviation(s) need to be identified by the Supplier and formally communicated with the Company through the 'contract variation processes. The variation submitted by the Supplier needs to be compliant and include all relevant details (costs, programme impacts, etc.) to enable the Company to decide and advise on the next steps.
- 3.8 Shift reporting by the Supplier needs to be compliant with the agreed format presented by the Company. The shift report should identify the progress made, resources utilised during the shift and any issues and/or concerns identified during the shift. Shift reporting needs to be received within the timescales agreed with the Company and no later than 12Hrs of the shift being completed.
- 3.9 For each shift, the appropriate quality, assurance and inspection records must be taken by the Supplier and kept as a record of the quality and workmanship recorded on site and for each shift. The specific format of these records must be agreed with the Company at the start up meeting pre-works.
- 3.10 On completion of the works, the Supplier shall provide the Company with a set of digital, date stamped images of the asset and associated works that are taken; before, during and after every key element of the corrective maintenance interventions and include this along with a written report within the Handover Document and/or completion certificate.

4. Location of Works

- 4.1 The Planned Preventative Works covered under this scope will generally lie within the core London Underground boundaries and property schedules. These property schedules and plans will be provided to the Supplier to allow for a full assessment of the areas covered under this scope of works.
- 4.2 For some London Underground boundaries, third party interfaces apply such as; public highways, river crossings, private land, Network Rail Track, DLR Track, etc. For these interface areas, the Supplier is expected to manage the interface and consider any specific rules and/or requirements that may apply.

5. Hours of Work

Access will be obtained in accordance with the arrangements set out in Schedule 13 [Access Arrangements]. Compliance with these arrangements is mandatory.

6. Standards and Specifications

- 6.1 The Supplier shall deliver the Services to meet the requirements of the Terms and Conditions of Contract – Schedule 1.
- 6.2 The Supplier shall deliver the Corrective Maintenance Works in accordance with all relevant standards and specifications; this includes but is not limited to, London Underground Standards, British Standards, Building Regulations, National Standards and Eurocodes.
- 6.3 It is the responsibility of the Supplier to ensure that the Standard applied to the scope of work is relevant at the time of undertaking the work.

7. Skills and Competencies

- 7.1 The Supplier's personnel shall be fully trained, experienced and competent to meet the requirements of this Scope of Services. Such training, including any subsequent refresher training shall be at the Supplier's expense. It is the Suppliers responsibility to ensure that adequate training is maintained for its staff allocated to this scope of services and throughout the life of the contract.
- 7.2 The Supplier shall formally submit to the Company all Training & Competency matrices for its staff allocated to this scope of services. These matrices shall be submitted quarterly.
- 7.3 The Supplier shall only employ the services of a sub-Supplier once the Company has been informed formally of the intention for delivering the works through this route and the relevant certification and competency to carry out the works is evidenced by the main Supplier. The main Supplier is wholly responsible for the performance of the sub-Supplier to meet the scope of works and specification as set out by the Company.

8. Plant and Equipment

- 8.1 The Supplier shall deliver the Services to meet the requirements of the Terms and Conditions of Contract – Clause 2.9

9. Quality & Compliance Inspections

- 9.1 The Company will carry out quality inspections of Planned Preventative Services completed by the Supplier in accordance with Schedule 12 [Performance].
- 9.2 The Company shall carry out routine Health & Safety audits on the Supplier whilst works are being delivered 'on-site'. The audits will assess all 'procedures and processes' being carried out to ensure that, as a minimum, compliance is achieved against the standards and specifications.
- 9.3 The output of the Company HSE audits will give a consolidated score which will determine the level of compliance. This will then be aligned to 3 achievement ratings; 'Below Compliance', 'Compliant' and 'Good Practice'.
- 9.4 The HSE audit scores form part of the Contract 'Key Performance Indicators' and are reviewed each period and discussed at the Supplier Periodic Review Meetings. Below is a summary of the 'Key Performance Measures' that are assessed each period.

- ✓ **Health, Safety, Quality and Environment** (Assessment of practices in line with business compliance and legislation)
- ✓ **Tendering** (Assessment of the quality & compliance of tenders received)
- ✓ **Assurance** (Assessment of the quality & compliance of assurance management)
- ✓ **Cost Management** (Assessment of the quality & compliance of cost management)
- ✓ **Service Quality** (Assessment of the overall Service Quality)
- ✓ **Work Planning (Progress Vs Plan)** (Assessment of the delivery of works in accordance with the contracted programme)
- ✓ **Reporting** (Assessment of the quality & compliance of reporting)
- ✓ **Service Delivery** (Measure of the quality & compliance of Service Delivery)
- ✓ **LUL Interface** (Assessment of the overall quality of LUL interfaces)

10. Asset Management System

10.1 The Supplier shall use the Asset Management Systems to record details of work undertaken by the Supplier on the Company's assets as part of the Services and to carry out any other activities in relation to the Asset Management System as set out in the Specification.

10.2 The Supplier shall ensure that all Supplier Personnel attend any training by the Company in relation to the Asset Management System and follow the methods and processes required by the Company, as may be more particularly described in the Specification or notified to the Supplier from time to time.

10.3 The Supplier shall perform its obligations under this Clause **Error! Reference source not found.** so as not to put the Company in breach of any of its obligations under any Third Party Licence and shall comply with the terms of any Third Party Licence as if it were a party to the Third Party Licence.

10.4 The supplier acknowledges that the company shall not have any liability to the Supplier in respect of any inaccuracy, error or omission contained in, or any unavailability of the Asset Management System, and the Supplier shall not be relieved of its obligations under this Contract as a result of the Asset Management System being unavailable or containing any inaccuracies, error or omissions.

Annex A
JNP Asset Base Subject to 'Planned Preventative Maintenance' Scope

Bridges & Structures (B&S)

Asset Type	Line Total Asset Base			Total
	Jubilee	Northern	Piccadilly	
Cables and Pipe Bridges	33	26	16	75
Foot Bridges	34	55	61	150
Over-Bridges	20	24	26	70
Under-Bridges	27	50	39	116
Viaducts	5	11	15	31
Chimney Masonry	0	1	1	2
Covered Way	3	1	6	10
Culverts	8	9	2	19
Disused Station	0	4	5	9
Escalator Machine Room Steelwork	72	27	18	117
Escalator Support Frame	131	54	44	229
Girdering	33	52	61	146
Linear Staircase	20	15	9	44
Load Gauge	1	1	3	5
Pipe Crossing Under The Track	27	17	20	64
Pipe Crossing Over The Track	1	0	1	2
Roof Structure Support	16	13	28	57
Shaft	0	2	1	3
Shaft Cable	2	15	7	24
Shaft Disused	2	6	11	19
Shaft Lift	0	16	7	23
Shaft Pump	13	4	13	30
Signal Gantry	12	3	12	27
Spiral Stairway	1	20	11	32

Asset Type	Line Total Asset Base			Total
	Jubilee	Northern	Piccadilly	
Stations: Buildings	0	0	0	0
Stations: Platforms	64	88	78	230
Stations: Platforms Canopy	23	22	28	73
Sub-Station Premises	1	1	3	5
Sub-Station	0	0	0	0
Subway	4	7	5	16
Brick Tunnel	4	0	0	4
Ventilation Plant	35	52	61	148
Ventilator	11	0	7	18
Boundary Wall	2	1	1	4
Dry Stone Wall	3	3	0	6
Gabion Wall	24	29	14	67
Retaining Wall Over 1m	64	164	124	352
Retaining Wall under 1m	23	12	9	44
Station Entrance Canopies	16	13	13	42
Access Gantries	0	0	13	13
Lighting Standards	338	509	541	1388
Lighting Masts	2	16	17	35
Lighting Towers	1	1	0	2
Flood Gates	2	58	32	92
Cable Posts	26	43	37	106
Cable Stiles	2	2		4
Water Tower	0	0	1	1
Total	1106	1447	1401	3954

Earth Structures (ES)

Asset Type	Jubilee	Northern	Piccadilly	Total
Cuttings (km)	9	17.15	21.4	47.55
Embankments (km)	8	11.1	13.1	32.2
Total	17	28.25	34.5	79.75

Deep Tube Tunnels (DTT)

DTT Asset Type (No.s)	Jubilee	JLE	Northern	Piccadilly	Total
Platform or Concourse Tunnels	6	7	125	55	193
Station Passageway Tunnels	15	29	422	211	677
Running Tunnels	15	20	103	55	193
Cross Passages Between Running Tunnels	36	2	168	101	307
Step Plate Junctions	2	6	31	15	54
Crossover Tunnels	1	0	13	7	21
Overrun Tunnel	0	0	0	1	1
Siding Tunnel	0	0	9	6	15
Inclined Shafts	2	3	45	12	62
Vertical Shafts	18	28	135	78	259
Disused Tunnels	0	0	10	6	16
Disused Shafts	0	0	12	10	22
Other Tunnels	0	0	35	9	44
Total (No. Of Assets)	95	95	1108	566	1864

NOTE: The above asset volumes are the entire JNP asset base and the specific individual assets out of the above groups and types will be selected by the Company in each year for Planned Preventative Interventions.

Schedule 1 – Specification

SCOPE 3 – Track Drainage (Inspection & Maintenance)

1. Description of the Works

- 1.1 The Supplier shall provide Inspection & Maintenance intervention activities to Track Drainage assets as detailed below. The Supplier shall ensure that all works are carried out in accordance with London Underground and National Standards as well as Statutory Obligations required by Law which are current throughout the life of the Contract.
- 1.2 The Supplier shall research and identify innovative products, methods of working and overall health, safety and environmental practices to ensure the continual improvement of this scope. The Supplier is encouraged to engage with the Company to arrange trial innovations for any such improvements, and work in accordance with good industry practice and best practice.
- 1.3 The Supplier shall be responsible for delivering all the requirements of this scope, including but not limited to, the supply of all labour, overheads, consumables, materials, access equipment and any plant necessary to undertake the required tasks.

2. Scope of Services

- 2.1 The Supplier shall undertake Inspection & Maintenance intervention activities to Track Drainage assets as identified by the Operations JNP.
- 2.2 The 'Track Drainage' Portfolio of assets for Operations JNP consists of the following asset groups and associated volumes.
 - Track Drainage Pipes – Approximately 119km of Track Drainage Pipes
 - Track Drainage Catchpits – Over 4,000 catchpits
 - Drainage Ditches – Approximately 7km of Drainage Ditches
 - Drainage Channels – Approximately 92km of Drainage Channels

NOTE: Full details of the JNP asset base are contained within the attached Annex A.

- 2.3 The types of interventions covered under Track Drainage Inspection & Maintenance scope are summarised below.
 - Cleaning of Drainage by Manual & Mechanical Means – Track & Off-Track
 - Undertaking CCTV Surveys of Drainage Pipes – Track & Off-Track
 - Undertaking Inspections of Drainage Assets (Catchpits, Gulleys, Manholes)
 - Pipework Repairs by Trenchless Methods – Track & Off-Track
 - Pipework Repairs by Non-Trenchless Methods – Track & Off-Track
 - Catchpit Repairs and/or Re-Builds – Track & Off-Track
 - Channel & Ditch Cleaning – Tunnel Sections, Track and Off-Track
 - Re-bedding, replacing and repairing manhole and sump covers
 - Installation of New Catchpits

- Installation of New Drainage Systems – Track & Off-Track
- Use of New Technologies for Drainage Works
- Design of New Drainage Systems
- Level Surveys of Drainage Assets/Systems

3. Maintenance & Inspection Services

- 3.1 The Supplier is to provide a detailed and compliant programme to the Company detailing the critical path(s) and dependencies to deliver the contracted requirements.
- 3.2 The Supplier shall include in all cases, where appropriate, hold points for delivery for compliant standards of workmanship.
- 3.3 It is expressly required that Suppliers visit the sites designated for repair prior to submitting their tender.
- 3.4 All specifications and instructions for the required 'Track Drainage' scope activities will be defined by the Company and included within the 'scope document' included within the tender pack.
- 3.5 For each specific scope/brief, the Supplier must have in place prior to any works commencing, an approved and compliant; Method Statement, Site Risk Assessment and any other assurance documents that may apply to the works, for example, in some cases, an approved 'Temporary Works Design' may be required for enabling works to commence.
- 3.6 Dependant on the nature of the works, the Supplier is responsible to make adequate and appropriate checks throughout the works for any environmental requirements such as; noise, hazardous waste transfer, etc. All environmental allowances must be assessed and appropriately allowed for by the Supplier to ensure compliance with legislation and standards throughout.
- 3.7 Any deviation(s) to the contracted scope of work(s) need to be agreed with the Company prior to any changes taking place. Any deviation(s) need to be identified by the Supplier and formally communicated with the Company through the 'contract variation processes. The variation submitted by the Supplier needs to be compliant and include all relevant details (costs, programme impacts, etc.) to enable the Company to decide and advise on the next steps.
- 3.8 Shift reporting by the Supplier needs to be compliant with the agreed format presented by the Company. The shift report should identify the progress made, resources utilised during the shift and any issues and/or concerns identified during the shift. Shift reporting needs to be received within the timescales agreed with the Company and no later than 12Hrs of the shift being completed.
- 3.9 For each shift, the appropriate quality, assurance and inspection records must be taken by the Supplier and kept as a record of the quality and workmanship recorded on site and for each shift. The specific format of these records must be agreed with the Company at the start up meeting pre-works.

- 3.10 On completion of the works, the Supplier shall provide the Infracos with a set of digital, date stamped images of the asset and associated works that are taken; before, during and after every key element of the maintenance and inspection interventions and include this along with a written report within the Handover Document and/or completion certificate.

4. Location of Works

- 4.1 The Track Drainage Works covered under this scope will generally lie within the core London Underground boundaries and property schedules. These property schedules and plans will be provided to the Supplier to allow for a full assessment of the areas covered under this scope of works.
- 4.2 For some London Underground boundaries, third party interfaces apply such as; public highways, river crossings, private land, Network Rail Track, DLR Track, etc. For these interface areas, the Supplier is expected to manage the interface and consider any specific rules and/or requirements that may apply.

5. Hours of Work

Access will be obtained in accordance with the arrangements set out in Schedule 13 [Access Arrangements]. Compliance with these arrangements is mandatory.

6. Standards and Specifications

- 6.1 The Supplier shall deliver the Services to meet the requirements of the Terms and Conditions of Contract – Schedule 1.
- 6.2 The Supplier shall deliver the Maintenance & Inspection Works in accordance with all relevant standards and specifications; this includes but is not limited to, London Underground Standards, British Standards, Building Regs, National Standards and Eurocodes.
- 6.3 It is the responsibility of the Supplier to ensure that the Standard applied to the scope of work is relevant at the time of undertaking the work.

7. Skills and Competencies

- 7.1 The Supplier's personnel shall be fully trained, experienced and competent to meet the requirements of this Scope of Services. Such training, including any subsequent refresher training shall be at the Supplier's expense. It is the Suppliers responsibility to ensure that adequate training is maintained for its staff allocated to this scope of services and throughout the life of the contract.
- 7.2 The Supplier shall formally submit to the Company all Training & Competency matrices for its staff allocated to this scope of services. These matrices shall be submitted quarterly.
- 7.3 The Supplier shall only employ the services of a sub-Supplier once the Company has been informed formally of the intention for delivering the works through this route and the relevant certification and competency to carry out the works is evidenced by the main Supplier. The main Supplier is wholly

responsible for the performance of the sub-Supplier to meet the scope of works and specification as set out by the Company.

8. Plant and Equipment

- 8.1 The Supplier shall deliver the Services to meet the requirements of the Terms and Conditions of Contract – Clause 2.9

9. Quality & Compliance Inspections

- 9.1 The Company will carry out quality inspections of Maintenance & Inspection Services completed by the Supplier in accordance with Schedule 12 [Performance].
- 9.2 The Company shall carry out routine Health & Safety audits on the Supplier whilst works are being delivered 'on-site'. The audits will assess all 'procedures and processes' being carried out to ensure that, as a minimum, compliance is achieved against the standards and specifications.
- 9.3 The output of the Company HSE audits will give a consolidated score which will determine the level of compliance. This will then be aligned to 3 achievement ratings; 'Below Compliance', 'Compliant' and 'Good Practice'.
- 9.4 The HSE audit scores form part of the Contract 'Key Performance Indicators' and are reviewed each period and discussed at the Supplier Periodic Review Meetings. Below is a summary of the 'Key Performance Measures' that are assessed each period.

- ✓ **Health, Safety, Quality and Environment** (Assessment of practices in line with business compliance and legislation)
- ✓ **Tendering** (Assessment of the quality & compliance of tenders received)
- ✓ **Assurance** (Assessment of the quality & compliance of assurance management)
- ✓ **Cost Management** (Assessment of the quality & compliance of cost management)
- ✓ **Service Quality** (Assessment of the overall Service Quality)
- ✓ **Work Planning (Progress Vs Plan)** (Assessment of the delivery of works in accordance with the contracted programme)
- ✓ **Reporting** (Assessment of the quality & compliance of reporting)
- ✓ **Service Delivery** (Measure of the quality & compliance of Service Delivery)

- ✓ **LUL Interface** (Assessment of the overall quality of LUL interfaces)

10. Asset Management System

10.1 The Supplier shall use the Asset Management Systems to record details of work undertaken by the Supplier on the Company's assets as part of the Services and to carry out any other activities in relation to the Asset Management System as set out in the Specification.

10.2 The Supplier shall ensure that all Supplier Personnel attend any training by the Company in relation to the Asset Management System and follow the methods and processes required by the Company, as may be more particularly described in the Specification or notified to the Supplier from time to time.

10.3 The Supplier shall perform its obligations under this Clause **Error! Reference source not found.** so as not to put the Company in breach of any of its obligations under any Third Party Licence and shall comply with the terms of any Third Party Licence as if it were a party to the Third Party Licence.

10.4 The supplier acknowledges that the company shall not have any liability to the Supplier in respect of any inaccuracy, error or omission contained in, or any unavailability of the Asset Management System, and the Supplier shall not be relieved of its obligations under this Contract as a result of the Asset Management System being unavailable or containing any inaccuracies, error or omissions.

Annex A
JNP Asset Base Subject to 'Track Drainage Inspection & Maintenance' Scope

Track Drainage (TD)

TD Asset Type (Volumes)	Jubilee	Northern	Piccadilly	Total
Catchpits (no.)	1422	1263	1627	4312
Track Drainage (km)	40	31.6	46.7	118.3
Drainage Ditches (km)	6.0	0.16	0.68	6.84
Channels (km)	66.5	13.3	12.4	92.2

NOTE: The above asset volumes are the entire JNP asset base and the specific individual assets out of the above groups and types will be selected by the Company in each year for Planned Preventative Interventions.

Schedule 1 – Specification

SCOPE 4 – Station Drainage (Inspection & Maintenance)

1. Description of the Works

- 1.1 The Supplier shall provide Inspection & Maintenance intervention activities to Track Drainage assets as detailed below. The Supplier shall ensure that all works are carried out in accordance with London Underground and National Standards as well as Statutory Obligations required by Law which are current throughout the life of the Contract.
- 1.2 The Supplier shall research and identify innovative products, methods of working and overall health, safety and environmental practices to ensure the continual improvement of this scope. The Supplier is encouraged to engage with the Company to arrange trial innovations for any such improvements, and work in accordance with good industry practice and best practice.
- 1.3 The Supplier shall be responsible for delivering all the requirements of this scope, including but not limited to, the supply of all labour, overheads, consumables, materials, access equipment and any plant necessary to undertake the required tasks.

2. Scope of Services

- 2.1 The Supplier shall undertake Inspection & Maintenance intervention activities to Station Drainage assets as identified by the Operations JNP.
- 2.2 The 'Station Drainage' Portfolio of assets for Operations JNP consists of the following asset groups and associated volumes.
 - Below Ground Pipework – 100no. Stations across JNP (ALL)
 - Drainage Manholes – 100no. Stations across JNP (ALL)
 - Drainage Gulleys – 100no. Stations across JNP (ALL)
 - Drainage Channels – 100no. Stations across JNP (ALL)

NOTE: Full details of the JNP asset base are contained within the attached Annex A.

- 2.3 The types of interventions covered under Station Drainage Inspection & Maintenance scope are summarised below.
 - Cleaning of Drainage by Manual & Mechanical Means – Station Grounds
 - Undertaking CCTV Surveys of Drainage Pipes – Station Grounds
 - Undertaking Inspections of Drainage Assets (Gulleys, Manholes)
 - Pipework Repairs by Trenchless Methods – Station Grounds
 - Pipework Repairs by Non-Trenchless Methods – Station Grounds
 - Manhole Repairs and/or Re-Builds – Station Grounds
 - Channel & Ditch Cleaning – Station Grounds
 - Re-bedding, replacing and repairing manhole and sump covers
 - Installation of New Manholes

- Installation of New Drainage Systems – Station Grounds
- Use of New Technologies for Drainage Works
- Design of New Drainage Systems
- Level Surveys of Drainage Assets/Systems

3. Maintenance & Inspection Services

- 3.1 The Supplier is to provide a detailed and compliant programme to the Company detailing the critical path(s) and dependencies to deliver the contracted requirements.
- 3.2 The Supplier shall include in all cases, where appropriate, hold points for delivery for compliant standards of workmanship.
- 3.3 It is expressly required that Suppliers visit the sites designated for repair prior to submitting their tender.
- 3.4 All specifications and instructions for the required 'Station Drainage' scope activities will be defined by the Company and included within the 'scope document' included within the tender pack.
- 3.5 For each specific scope/brief, the Supplier must have in place prior to any works commencing, an approved and compliant; Method Statement, Site Risk Assessment and any other assurance documents that may apply to the works, for example, in some cases, an approved 'Temporary Works Design' may be required for enabling works to commence.
- 3.6 Dependant on the nature of the works, the Supplier is responsible to make adequate and appropriate checks throughout the works for any environmental requirements such as; noise, hazardous waste transfer, etc. All environmental allowances must be assessed and appropriately allowed for by the Supplier to ensure compliance with legislation and standards throughout.
- 3.7 Any deviation(s) to the contracted scope of work(s) need to be agreed with the Company prior to any changes taking place. Any deviation(s) need to be identified by the Supplier and formally communicated with the Company through the 'contract variation processes. The variation submitted by the Supplier needs to be compliant and include all relevant details (costs, programme impacts, etc.) to enable the Company to decide and advise on the next steps.
- 3.8 Shift reporting by the Supplier needs to be compliant with the agreed format presented by the Company. The shift report should identify the progress made, resources utilised during the shift and any issues and/or concerns identified during the shift. Shift reporting needs to be received within the timescales agreed with the Company and no later than 12Hrs of the shift being completed.
- 3.9 For each shift, the appropriate quality, assurance and inspection records must be taken by the Supplier and kept as a record of the quality and workmanship recorded on site and for each shift. The specific format of these records must be agreed with the Company at the start up meeting pre-works.

- 3.10 On completion of the works, the Supplier shall provide the Company with a set of digital, date stamped images of the asset and associated works that are taken; before, during and after every key element of the maintenance and inspection interventions and include this along with a written report within the Handover Document and/or completion certificate.

4. Location of Works

- 4.1 The Station Drainage Works covered under this scope will generally lie within the core London Underground boundaries and property schedules. These property schedules and plans will be provided to the Supplier to allow for a full assessment of the areas covered under this scope of works.
- 4.2 For some London Underground boundaries, third party interfaces apply such as; public highways, river crossings, private land, Network Rail Track, DLR Track, etc. For these interface areas, the Supplier is expected to manage the interface and consider any specific rules and/or requirements that may apply.

5. Hours of Work

Access will be obtained in accordance with the arrangements set out in Schedule 13 [Access Arrangements]. Compliance with these arrangements is mandatory.

6. Standards and Specifications

- 6.1 The Supplier shall deliver the Services to meet the requirements of the Terms and Conditions of Contract – Schedule 1.
- 6.2 The Supplier shall deliver the Maintenance & Inspection Works in accordance with all relevant standards and specifications; this includes but is not limited to, London Underground Standards, British Standards, Building Regulations, National Standards and Eurocodes.
- 6.3 It is the responsibility of the Supplier to ensure that the Standard applied to the scope of work is relevant at the time of undertaking the work.

7. Skills and Competencies

- 7.1 The Supplier's personnel shall be fully trained, experienced and competent to meet the requirements of this Scope of Services. Such training, including any subsequent refresher training shall be at the Supplier's expense. It is the Suppliers responsibility to ensure that adequate training is maintained for its staff allocated to this scope of services and throughout the life of the contract.
- 7.2 The Supplier shall formally submit to the Company all Training & Competency matrices for its staff allocated to this scope of services. These matrices shall be submitted quarterly.
- 7.3 The Supplier shall only employ the services of a sub-Supplier once the Company has been informed formally of the intention for delivering the works through this route and the relevant certification and competency to carry out the works is evidenced by the main Supplier. The main Supplier is wholly

responsible for the performance of the sub-Supplier to meet the scope of works and specification as set out by the Company.

8. Plant and Equipment

- 8.1 The Supplier shall deliver the Services to meet the requirements of the Terms and Conditions of Contract – Clause 2.9.

9. Quality & Compliance Inspections

- 9.1 The Company will carry out quality inspections of Maintenance & Inspection Services completed by the Supplier in accordance with Schedule 12 [Performance].

- 9.2 The Company shall carry out routine Health & Safety audits on the Supplier whilst works are being delivered 'on-site'. The audits will assess all 'procedures and processes' being carried out to ensure that, as a minimum, compliance is achieved against the standards and specifications.

- 9.3 The output of the Company HSE audits will give a consolidated score which will determine the level of compliance. This will then be aligned to 3 achievement ratings; 'Below Compliance', 'Compliant' and 'Good Practice'.

- 9.4 The HSE audit scores form part of the Contract 'Key Performance Indicators' and are reviewed each period and discussed at the Supplier Periodic Review Meetings. Below is a summary of the 'Key Performance Measures' that are assessed each period.

- ✓ **Health, Safety, Quality and Environment** (Assessment of practices in line with business compliance and legislation)
- ✓ **Tendering** (Assessment of the quality & compliance of tenders received)
- ✓ **Assurance** (Assessment of the quality & compliance of assurance management)
- ✓ **Cost Management** (Assessment of the quality & compliance of cost management)
- ✓ **Service Quality** (Assessment of the overall Service Quality)
- ✓ **Work Planning (Progress Vs Plan)** (Assessment of the delivery of works in accordance with the contracted programme)
- ✓ **Reporting** (Assessment of the quality & compliance of reporting)
- ✓ **Service Delivery** (Measure of the quality & compliance of Service Delivery)

- ✓ **LUL Interface** (Assessment of the overall quality of LUL interfaces)

10. Asset Management System

10.1 The Supplier shall use the Asset Management Systems to record details of work undertaken by the Supplier on the Company's assets as part of the Services and to carry out any other activities in relation to the Asset Management System as set out in the Specification.

10.2 The Supplier shall ensure that all Supplier Personnel attend any training by the Company in relation to the Asset Management System and follow the methods and processes required by the Company, as may be more particularly described in the Specification or notified to the Supplier from time to time.

10.3 The Supplier shall perform its obligations under this Clause **Error! Reference source not found.** so as not to put the Company in breach of any of its obligations under any Third Party Licence and shall comply with the terms of any Third Party Licence as if it were a party to the Third Party Licence.

10.4 The supplier acknowledges that the company shall not have any liability to the Supplier in respect of any inaccuracy, error or omission contained in, or any unavailability of the Asset Management System, and the Supplier shall not be relieved of its obligations under this Contract as a result of the Asset Management System being unavailable or containing any inaccuracies, error or omissions.

Annex A
JNP Asset Base Subject to 'Station Drainage Inspection & Maintenance' Scope

Station Drainage (SD)

SD – No. of Stations Across JNP	Jubilee	Northern	Piccadilly	Total
Stations (no.)	24	40	36	100

NOTE: The above asset volumes are the entire JNP asset base and the specific individual assets out of the above groups and types will be selected by the Company in each year for Planned Preventative Interventions.

Schedule 1 – Specification

SCOPE 5 – Civils Reactive Maintenance (Emergency / Fault Maintenance – Civils ALL)

1. Description of the Works

- 1.1 The Supplier shall provide Reactive Emergency Maintenance Services to Bridges & Structures and Drainage assets as detailed below. The Supplier shall ensure that all works are carried out in accordance with London Underground and National Standards as well as Statutory Obligations required by Law which are current throughout the life of the Contract.
- 1.2 The Supplier shall research and identify innovative products, methods of working and overall health, safety and environmental practices to ensure the continual improvement of this scope. The Supplier is encouraged to engage with the Company to arrange trial innovations for any such improvements, and work in accordance with good industry practice and best practice.
- 1.3 The Supplier shall be responsible for delivering all the requirements of this scope, including but not limited to, the supply of all labour, overheads, consumables, materials, access equipment and any plant necessary to undertake the required tasks.
- 1.4 The Supplier must be able to deliver, as a minimum, 90% of the scope activities through a direct labour supply.
- 1.5 The supplier must demonstrate its ability to manage a multi-disciplined portfolio and arranged to be able to deliver both 'Drainage' and 'Structures' reactive and emergency maintenance.
- 1.6 The initial attendance is to mitigate and manage all associated risk(s) with the fault reported (Service and Safety Loss Risk).
- 1.7 The Supplier must have a 24/7, 365 days a year call centre to take and manage any emergency reactive faults that may arise.
- 1.8 The Supplier must have a pool of dedicated 'multi-skilled' staff, available 24/7, 365 days a year to manage any reactive faults that may arise.
- 1.9 The Supplier must make provision for 'critical spares', materials and plant to be utilised for managing emergency reactive faults that may arise.

2. Scope of Services

- 2.1 The Supplier shall undertake Reactive Maintenance services to Bridges & Structures and Drainage assets as identified by the AP-JNP.
- 2.2 The 'Civils' Portfolio of assets for Operations JNP consists of the following asset groups and associated volumes.
 - Bridges & Structures – over 4,000 individual assets with 1,972 'major structures'
 - Deep Tube Tunnels – over 219km of Tunnel Assets

- Earth Structures – 80km of Earth Structures
- Station Drainage – 100no. Individual Stations across JNP Lines
- Track Drainage Pipes – Approximately 119km of Track Drainage Pipes
- Track Drainage Catchpits – Over 4,000 catchpits
- Drainage Ditches – Approximately 7km of Drainage Ditches
- Drainage Channels – Approximately 92km of Drainage Channels

NOTE: Full details of the JNP asset base are contained within the attached Annex A.

2.3 The types of interventions covered under Reactive Maintenance scope are summarised below.

- Vegetation Clearance
- Guttering & Downpipe - Repairs, Alterations and Clearing
- Track & Off-Track Drainage – Flooding Alleviation
- Station Drainage – Flooding Alleviation
- Deep Tube Tunnel – Seepage Management
- Minor concrete repairs to structures
- Bridges & Structures – Management of Pigeon Deterrent Measures
- Deep Tube Tunnel - Shaft Cleaning
- Locks – Repairs & Replacement
- Cable Support Works
- Graffiti Management/Removal
- Pest Control
- Cleaning – ie. Tunnel Vent / Floors / walls and surfaces
- Platforms – i.e anti slip surface on ramps, nosing stone support works
- Cable Trough – repairs
- Footpaths / Walkways – Yellow Lining / Walkboard Repairs (trip hazards)
- Signage renewal (non-track)

3. Reactive Services

- 3.1 The Supplier is to ensure that the 'Service Level Agreement' for response and rectification timescales is met in delivering the contracted requirements, Refer to schedule 12 (Performance) within the Contract – Cubic Manual.
- 3.2 All instructions for the required 'Reactive' scope activities will be defined by the London Underground Fault Report Centre.
- 3.3 The Supplier will receive formal notification of a 'fault' through 'Maximo' and will be required to manage the fault response through 'Maximo' by giving an update and timeline of events in managing the issue raised.
- 3.4 For each specific scope/brief, the Supplier must have in place prior to any works commencing, an approved and compliant; Method Statement, Site Risk Assessment and any other assurance documents that may apply to the works, for example, in some cases, an approved 'Temporary Works Design' may be required for enabling works to commence.

- 3.5 Dependant on the nature of the works, the Supplier is responsible to make adequate and appropriate checks throughout the works for any environmental requirements such as; noise, hazardous waste transfer, etc. All environmental allowances must be assessed and appropriately allowed for by the Supplier to ensure compliance with legislation and standards throughout.
- 3.6 Any deviation(s) to the contracted scope of work(s) need to be agreed with the Company prior to any changes taking place. Any deviation(s) need to be identified by the Supplier and formally communicated with the Company through the 'fault escalation' processes. The 'fault escalation' submitted by the Supplier needs to be compliant and include all relevant details (costs, programme impacts, etc.) to enable the Company to decide and advise on the next steps.
- 3.7 Shift reporting by the Supplier needs to be compliant with the agreed format presented by the Company. The shift report should identify the progress made, resources utilised during the shift and any issues and/or concerns identified during the shift. Shift reporting needs to be received within the timescales agreed with the Company and no later than 12Hrs of the shift being completed.
- 3.8 For each shift, the appropriate quality, assurance and inspection records must be taken by the Supplier and kept as a record of the quality and workmanship recorded on site and for each shift. The Supplier must also focus on potential 'root cause' to then present a case for remedy.
- 3.9 On completion of the works, the Supplier shall provide the Company with a set of digital, date stamped images of the asset and associated works that are taken; before, during and after every key element of the corrective maintenance interventions and include this along with a written report within the Handover Document and/or completion certificate.

4. Location of Works

- 4.1 The Reactive Works covered under this scope will generally lie within the core London Underground boundaries and property schedules. These property schedules and plans will be provided to the Supplier to allow for a full assessment of the areas covered under this scope of works.
- 4.2 For some London Underground boundaries, third party interfaces apply such as; public highways, river crossings, private land, Network Rail Track, DLR Track, etc. For these interface areas, the Supplier is expected to manage the interface and consider any specific rules and/or requirements that may apply.

5. Hours of Work

Access will be obtained in accordance with the arrangements set out in Schedule 13 [Access Arrangements]. Compliance with these arrangements is mandatory.

6. Standards and Specifications

- 6.1 The Supplier shall deliver the Services to meet the requirements of the Terms and Conditions of Contract – Schedule 1

- 6.2 The Supplier shall deliver the Reactive Maintenance Works in accordance with all relevant standards and specifications; this includes but is not limited to, London Underground Standards, British Standards, Building Regulations, National Standards and Eurocodes.
- 6.3 It is the responsibility of the Supplier to ensure that the Standard applied to the scope of work is relevant at the time of undertaking the work.

7. Skills and Competencies

- 7.1 The Supplier's personnel shall be fully trained, experienced and competent to meet the requirements of this Scope of Services. Such training, including any subsequent refresher training shall be at the Supplier's expense. It is the Suppliers responsibility to ensure that adequate training is maintained for its staff allocated to this scope of services and throughout the life of the contract.
- 7.2 The Supplier shall formally submit to the Company all Training & Competency matrices for its staff allocated to this scope of services. These matrices shall be submitted quarterly.
- 7.3 The Supplier shall only employ the services of a sub-Supplier once the Company has been informed formally of the intention for delivering the works through this route and the relevant certification and competency to carry out the works is evidenced by the main Supplier. The main Supplier is wholly responsible for the performance of the sub-Supplier to meet the scope of works and specification as set out by the Company.

8. Plant and Equipment

- 8.1 The Supplier shall deliver the Services to meet the requirements of the Terms and Conditions of Contract – Clause 2.9.

9. Quality & Compliance Inspections

- 9.1 The Company will carry out quality inspections of Reactive Services completed by the Supplier in accordance with Schedule 12 [Performance].
- 9.2 The Company shall carry out routine Health & Safety audits on the Supplier whilst works are being delivered 'on-site'. The audits will assess all 'procedures and processes' being carried out to ensure that, as a minimum, compliance is achieved against the standards and specifications.
- 9.3 The output of the Company's HSE audits will give a consolidated score which will determine the level of compliance. This will then be aligned to 3 achievement ratings; 'Below Compliance', 'Compliant' and 'Good Practice'.
- 9.4 The HSE audit scores form part of the Contract 'Key Performance Indicators' and are reviewed each period and discussed at the Supplier Periodic Review Meetings. Below is a summary of the 'Key Performance Measures' that are assessed each period.

- ✓ **Health, Safety, Quality and Environment** (Assessment of practices in line with business compliance and legislation)
- ✓ **Tendering** (Assessment of the quality & compliance of tenders received)
- ✓ **Assurance** (Assessment of the quality & compliance of assurance management)
- ✓ **Cost Management** (Assessment of the quality & compliance of cost management)
- ✓ **Service Quality** (Assessment of the overall Service Quality)
- ✓ **Work Planning (Progress Vs Plan)** (Assessment of the delivery of works in accordance with the contracted programme)
- ✓ **Reporting** (Assessment of the quality & compliance of reporting)
- ✓ **Service Delivery** (Measure of the quality & compliance of Service Delivery)
- ✓ **LUL Interface** (Assessment of the overall quality of LUL interfaces)

10. Asset Management System

10.1 The Supplier shall use the Asset Management Systems to record details of work undertaken by the Supplier on the Company's assets as part of the Services and to carry out any other activities in relation to the Asset Management System as set out in the Specification.

10.2 The Supplier shall ensure that all Supplier Personnel attend any training by the Company in relation to the Asset Management System and follow the methods and processes required by the Company, as may be more particularly described in the Specification or notified to the Supplier from time to time.

10.3 The Supplier shall perform its obligations under this Clause **Error! Reference source not found.** so as not to put the Company in breach of any of its obligations under any Third Party Licence and shall comply with the terms of any Third Party Licence as if it were a party to the Third Party Licence.

10.4 The supplier acknowledges that the company shall not have any liability to the Supplier in respect of any inaccuracy, error or omission contained in, or any unavailability of the Asset Management System, and the Supplier shall not be relieved of its obligations under this Contract as a result of the Asset Management System being unavailable or containing any inaccuracies, error or omissions.

JNP Asset Base Subject to 'Planned Preventative Maintenance' Scope

Bridges & Structures (B&S)

Asset Type	Line Total Asset Base			Total
	Jubilee	Northern	Piccadilly	
Cables and Pipe Bridges	33	26	16	75
Foot Bridges	34	55	61	150
Over-Bridges	20	24	26	70
Under-Bridges	27	50	39	116
Viaducts	5	11	15	31
Chimney Masonry	0	1	1	2
Covered Way	3	1	6	10
Culverts	8	9	2	19
Disused Station	0	4	5	9
Escalator Machine Room Steelwork	72	27	18	117
Escalator Support Frame	131	54	44	229
Girdering	33	52	61	146
Linear Staircase	20	15	9	44
Load Gauge	1	1	3	5
Pipe Crossing Under The Track	27	17	20	64
Pipe Crossing Over The Track	1	0	1	2
Roof Structure Support	16	13	28	57
Shaft	0	2	1	3
Shaft Cable	2	15	7	24
Shaft Disused	2	6	11	19
Shaft Lift	0	16	7	23
Shaft Pump	13	4	13	30
Signal Gantry	12	3	12	27
Spiral Stairway	1	20	11	32
Stations: Buildings	0	0	0	0

Asset Type	Line Total Asset Base			Total
	Jubilee	Northern	Piccadilly	
Stations: Platforms	64	88	78	230
Stations: Platforms Canopy	23	22	28	73
Sub-Station Premises	1	1	3	5
Sub-Station	0	0	0	0
Subway	4	7	5	16
Brick Tunnel	4	0	0	4
Ventilation Plant	35	52	61	148
Ventilator	11	0	7	18
Boundary Wall	2	1	1	4
Dry Stone Wall	3	3	0	6
Gabion Wall	24	29	14	67
Retaining Wall Over 1m	64	164	124	352
Retaining Wall under 1m	23	12	9	44
Station Entrance Canopies	16	13	13	42
Access Gantries	0	0	13	13
Lighting Standards	338	509	541	1388
Lighting Masts	2	16	17	35
Lighting Towers	1	1	0	2
Flood Gates	2	58	32	92
Cable Posts	26	43	37	106
Cable Stiles	2	2		4
Water Tower	0	0	1	1
Total	1106	1447	1401	3954

Earth Structures (ES)

Asset Type	Jubilee	Northern	Piccadilly	Total
Cuttings (km)	9	17.15	21.4	47.55
Embankments (km)	8	11.1	13.1	32.2
Total	17	28.25	34.5	79.75

Deep Tube Tunnels (DTT)

DTT Asset Type (No.s)	Jubilee	JLE	Northern	Piccadilly	Total
Platform or Concourse Tunnels	6	7	125	55	193
Station Passageway Tunnels	15	29	422	211	677
Running Tunnels	15	20	103	55	193
Cross Passages Between Running Tunnels	36	2	168	101	307
Step Plate Junctions	2	6	31	15	54
Crossover Tunnels	1	0	13	7	21
Overrun Tunnel	0	0	0	1	1
Siding Tunnel	0	0	9	6	15
Inclined Shafts	2	3	45	12	62
Vertical Shafts	18	28	135	78	259
Disused Tunnels	0	0	10	6	16
Disused Shafts	0	0	12	10	22
Other Tunnels	0	0	35	9	44
Total (No. Of Assets)	95	95	1108	566	1864

Track Drainage (TD)

TD Asset Type (Volumes)	Jubilee	Northern	Piccadilly	Total
Catchpits (no.)	1422	1263	1627	4312
Track Drainage (km)	40	31.6	46.7	118.3
Drainage Ditches (km)	6.0	0.16	0.68	6.84
Channels (km)	66.5	13.3	12.4	92.2

Station Drainage (SD)

SD – No. of Stations Across JNP	Jubilee	Northern	Piccadilly	Total
Stations (no.)	24	40	36	100

NOTE: The above asset volumes are the entire JNP asset base and the specific individual assets out of the above groups and types will be selected by the Company in each year for Planned Preventative Interventions.

Part C: Form of Proposal

From: [Contractor]

To: [the Company's Representative]

Date:

Dear Sirs

Proposal

Contract Title:

Reference no.:

In accordance with the Framework Agreement between us dated *[insert date]*, "the Framework Agreement", we hereby offer to supply the Works described in your Invitation to Tender dated *[insert date]*.

Words and expressions defined in the Framework Agreement bear the same meanings in this Proposal.

If you accept the Proposal in this letter the Contract shall consist of:

1. the Invitation to Tender
2. the terms and conditions of the Framework Agreement and supporting Schedules to the Framework Agreement;
3. the attached Specification previously issued with your Invitation to Tender dated *[insert date]* and our fixed price quotation; and
4. The confirmed or, if requested by the Company's Representative, amended Order.

Yours faithfully

Duly authorised for and on behalf of [the Contractor]

Part D: Form of Acceptance

To: [full name of the Contractor]

Date:

Dear Sirs

Acceptance

Contract title:

Reference no.:

In accordance with Clause 3 of the Framework Agreement between us dated [*insert date*], we hereby confirm acceptance of your Proposal dated [*insert date*] in respect of the above Contract.

Yours faithfully

For [Transport for London]

Part E: Mini-Competition Criteria

Pursuant to Clause 3.8 of the Form of Agreement, the criteria to establish the most economically advantageous tender will be either Section 1 or Section 2 (as indicated in the ITT):

Section 1:

Commercial: 40%

[criteria]

Technical: 60%

[criteria]

Section 2:

Commercial: 20%

[criteria]

Technical: 80%

[criteria]

Schedule 3
Form of Contract Completion Certificate

Certificate of Completion of the Works

[INSERT DESCRIPTION OF THE CONTRACT] **Date:**

Issued by: [the Company]
Address: Windsor House
42-50 Victoria Street
London SW1H 0TL

Contractor:
Address:

Works:

Situated at:

Order Title:
Order No:

Contract Commencement Date:

Pursuant to Clause 10 of the Conditions of Contract:

I certify that the Works have reached completion on:

Signed:
Company

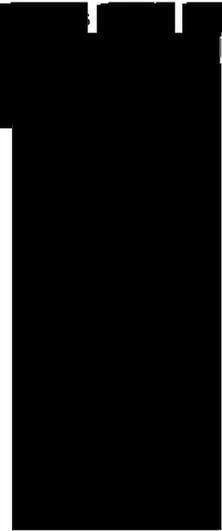
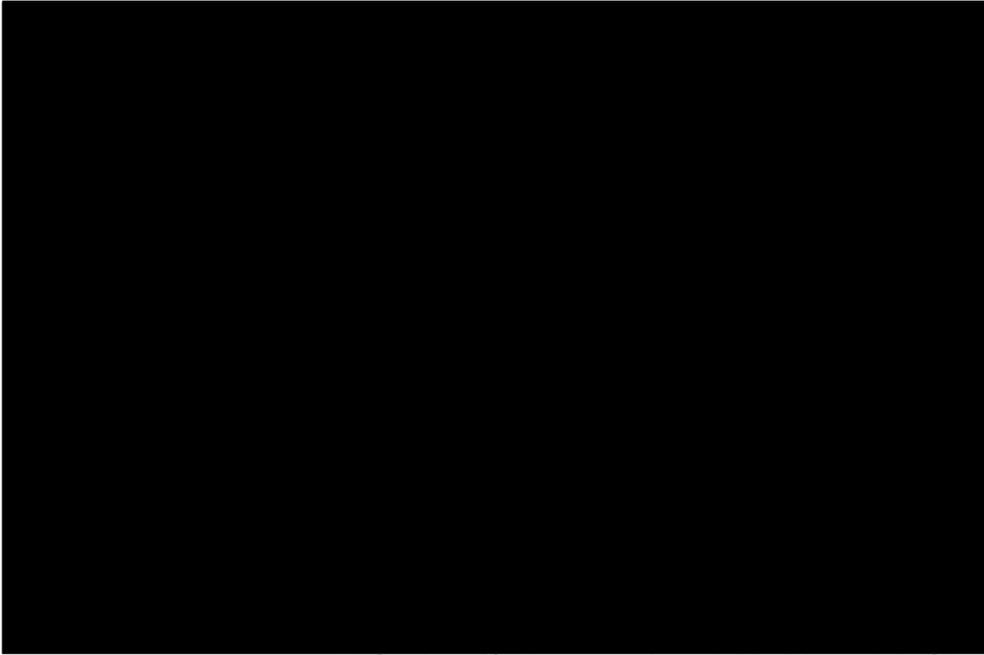
Date:

The Defects Liability Period is [12 months after issuance of this Completion Certificate].

Distribution: Original to: Contractor

Copies to: Company

Schedule 4



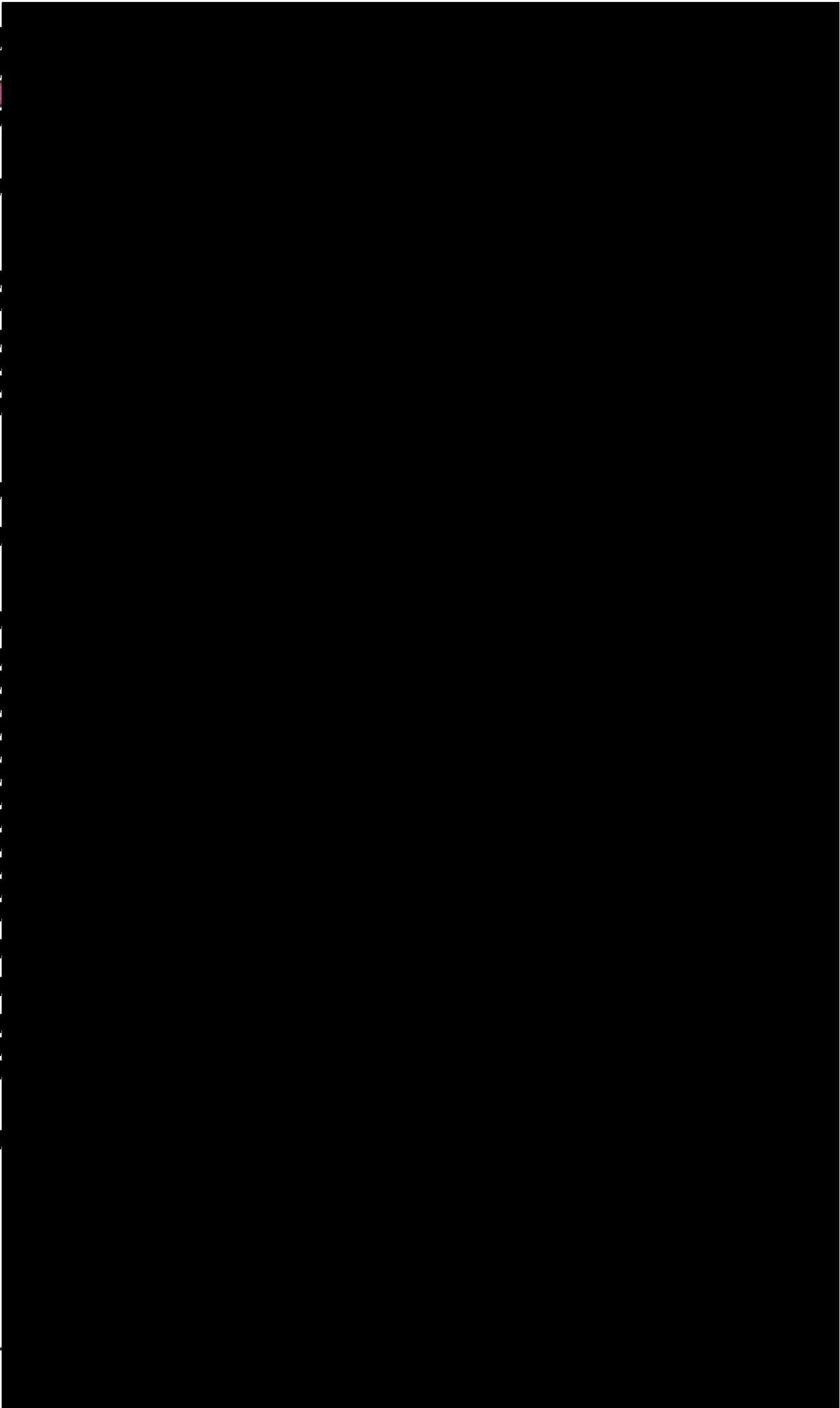
fL 000466

[REDACTED]

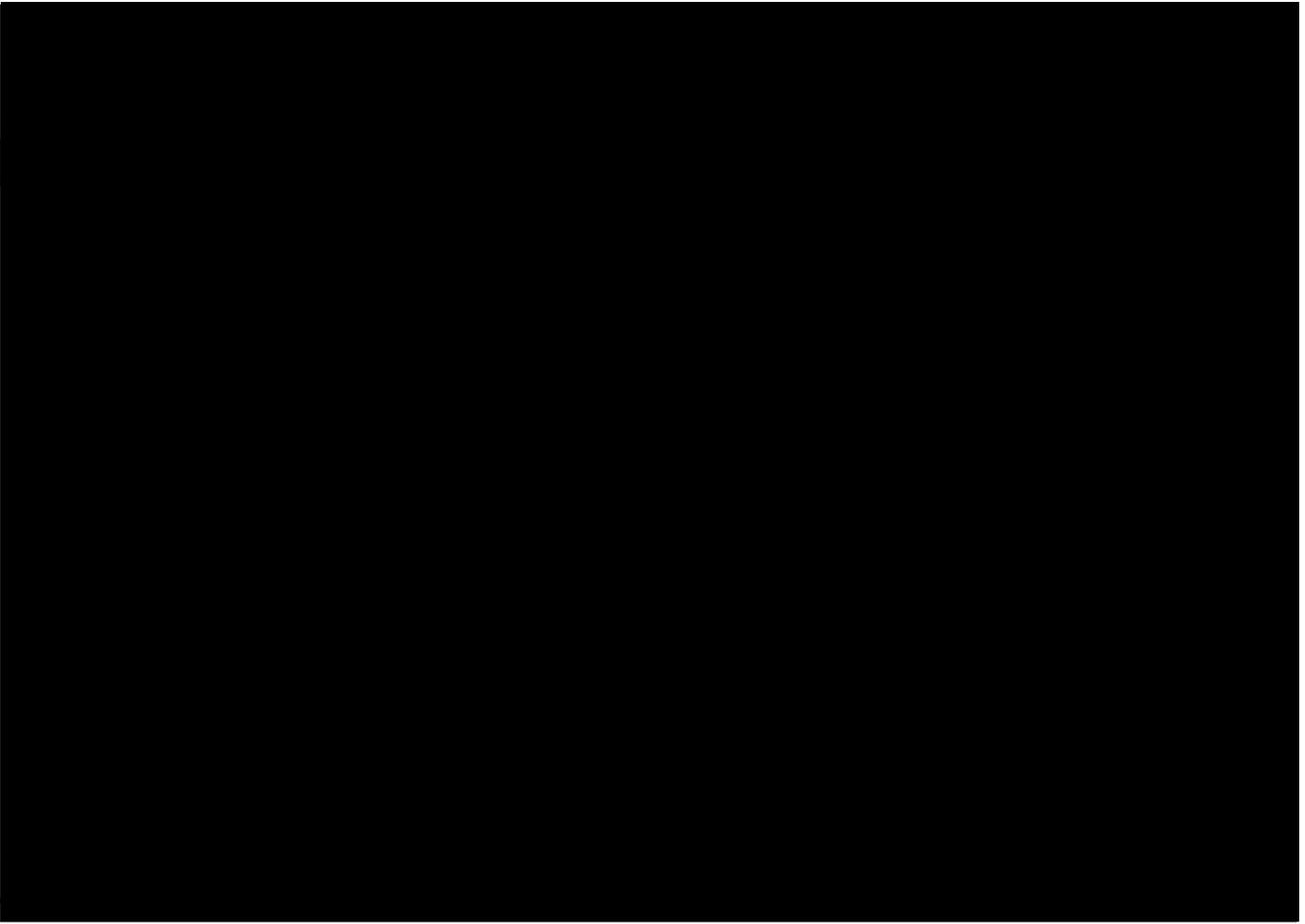
[REDACTED]

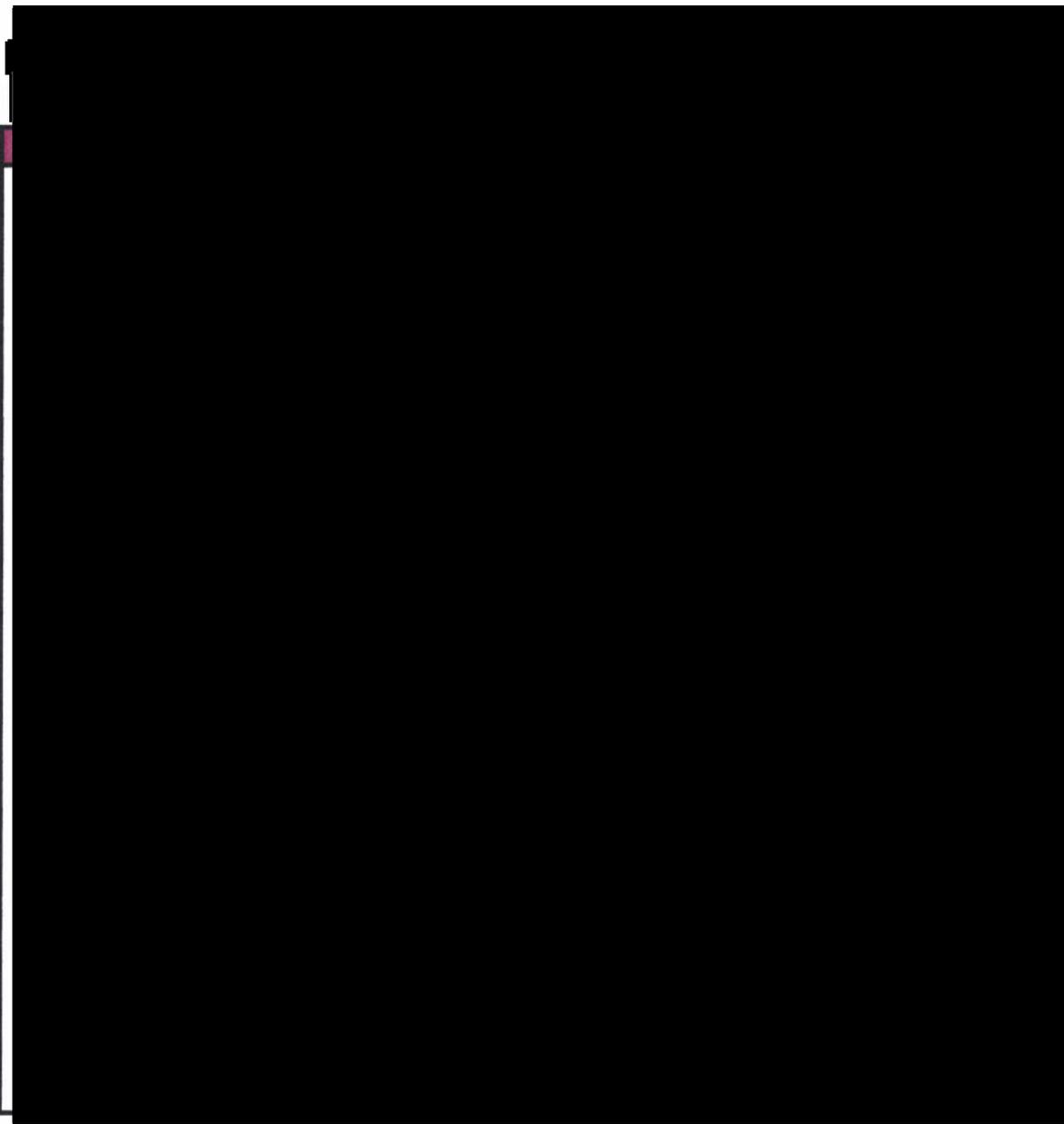
[REDACTED]

ITE

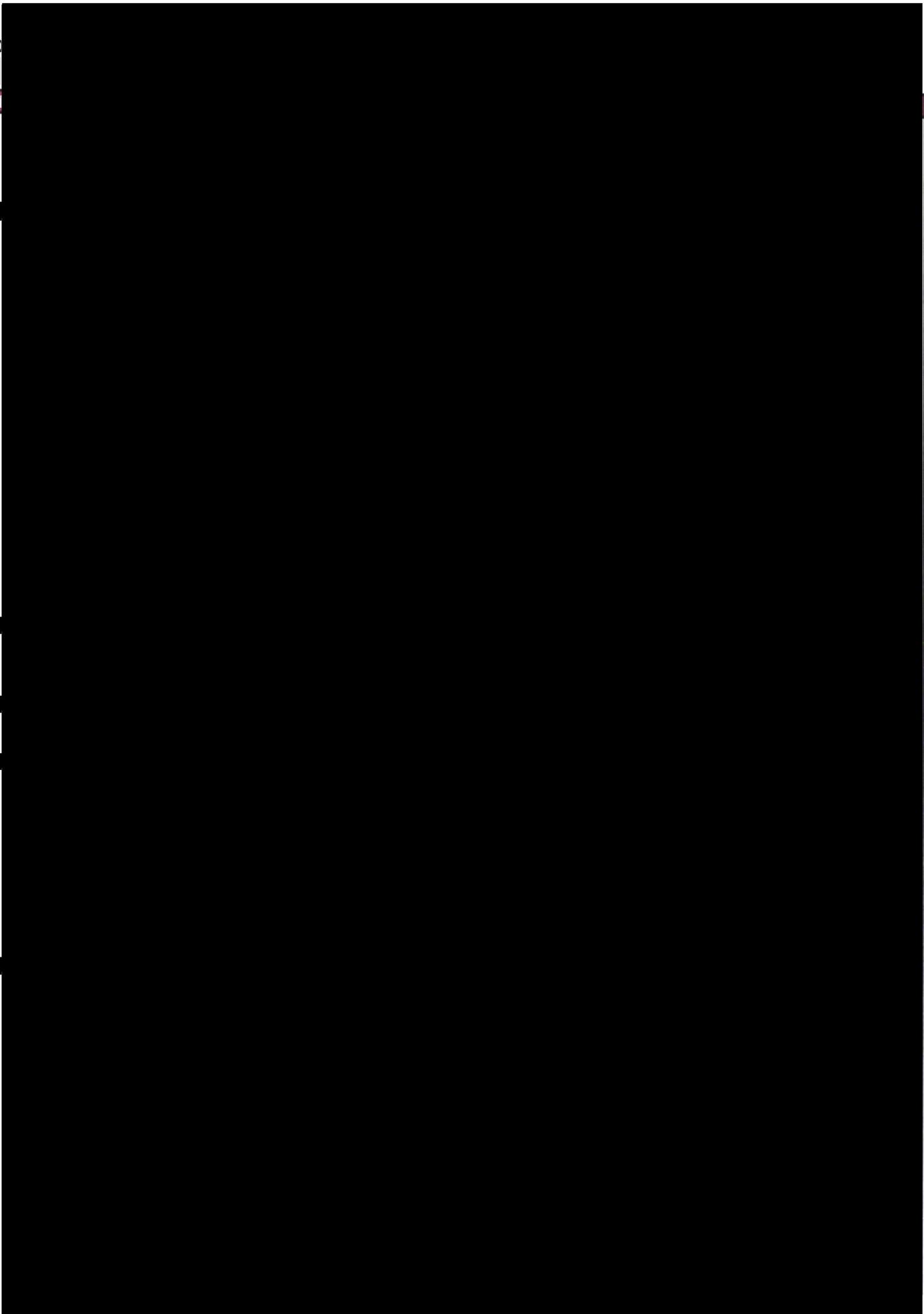


T
L





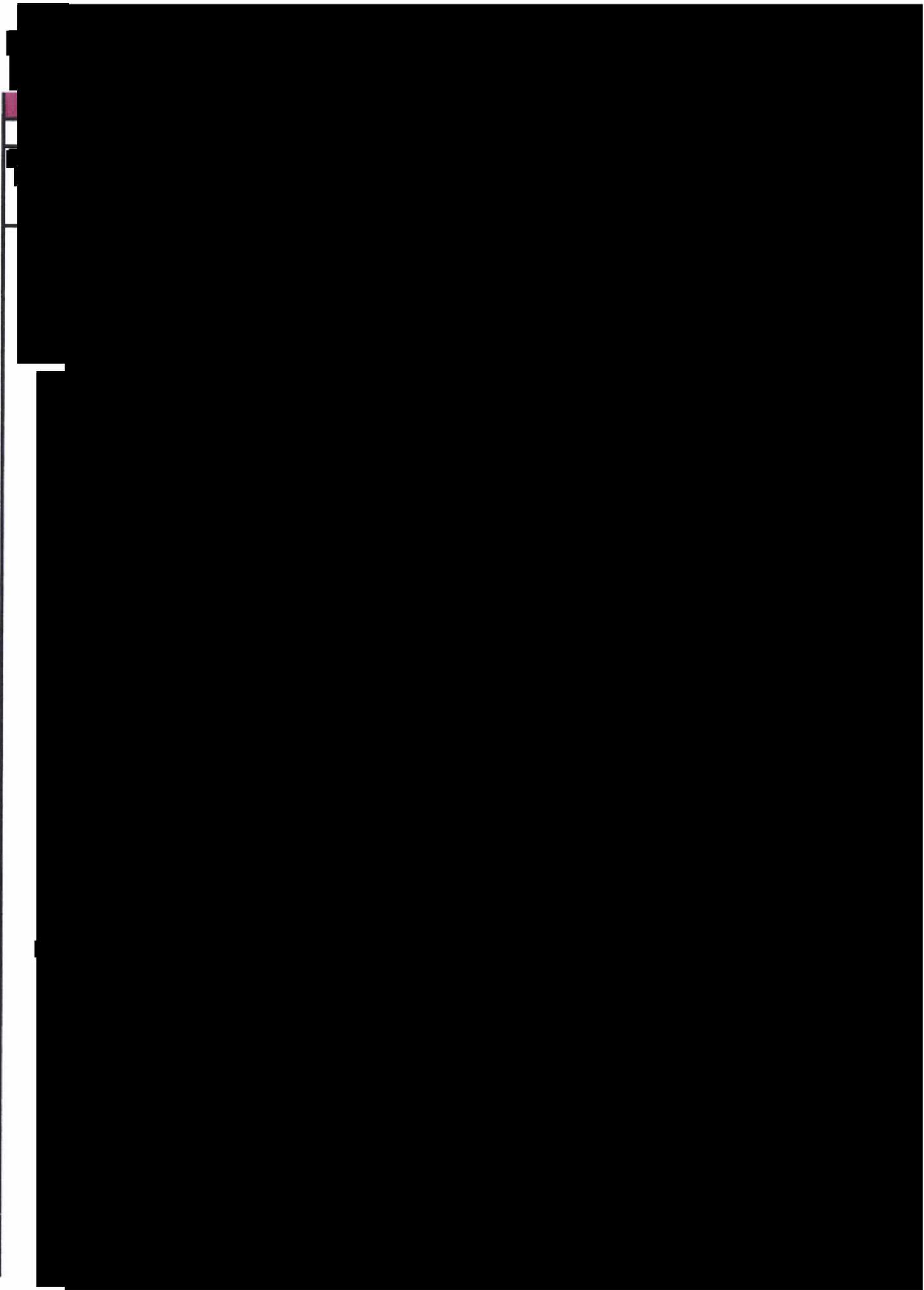
TI





[Redacted]





[Redacted]

[Redacted]