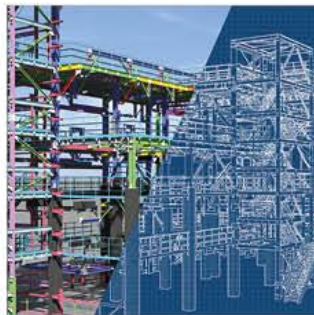




LAYER SURVEYS LTD

SEE THE COMPLETE PICTURE

Quotation



LAYER SURVEYS LTD

SEE THE COMPLETE PICTURE

To: Henry Wilkinson

From: Amber Hothersall

Company: Renaissance

Email: amber@layersurveys.co.uk

Re: Drainage Survey

Date: 04/05/2022

Quote Ref

AH0405202204

Site: Longacre Street

Dear Henry,

Thank you for the invitation to quote for the CCTV investigation at the above address. Following reviewing the information supplied, I now take pleasure in submitting our costs and recommendations for your perusal.

Scope of Works:-

- To supply a mainline CCTV drainage investigation unit and two fully trained engineers, to trace the 2 x lines running up Longacre Street with depths and position every 5 meters. By carrying out the survey we will be able to identify the assets, location, depths, connectivity. All necessary equipment tripod, winch, harness, gas detectors, etc. will be used throughout to comply with current health and safety legislation. Upon completion we will supply you with 1 x DVD's, along with full survey report relating to a clearly marked up site drawing.
- To supply a Jet / Vac unit, complete with two fully trained engineers to cleanse the lines prior to the CCTV investigation taking place should it be required. This unit has the ability to high pressure water jet at a rate of 391 Litres per minute which will clear any blockages on the line and remove any siltation stone. All waste will be vacuumed from the Access points and disposed of at a local waste transfer station under current waste transfer guidelines at a cost of cost plus £85.00 per tonne

Costs:-

Unit	Engineers	Inclusions	Duration	Costs Per Day
CCTV	Two	DVD, Report, Plan	1 Day	£640
Jet Vac	Two	All Safety Equipment	If required	£675
Sonde	N/A	Deep Sewer Sonde and Trace	1 Day	Inclusive
GPS	One	Spectra GPS System	1 Day	£350

Conditions:-

- Subject to Layer Surveys Ltd standard terms and conditions plus V.A.T
- Following acceptance of an official order.
- Costs are based on access to all areas being available.
- Costs are based on silt levels of no more than 15%
- Costs are based on flow levels of no more than 15%
- Costs are based on the ability to survey against the flows from the only available access points.

We trust this meets with your approval and await your official instruction before proceeding with the works. In the meantime, should you require any further assistance or additional information please do not hesitate to call.

Layer Surveys Method Statements & Risk Assessments

Please find below our statement which runs parallel with the safety documents hereafter:

Risk Assessments and Method Statements (RAMS) are issued to all our clients and included in the job pack for generic purposes only.

To ensure a safe system of work is applied in each instance a Point Of Work Risk Assessment is constructed on a daily basis or when a change to the working environment occurs this will then be added to the RAMS below to create a safe system of works at the time the works are carried.

Findings of the assessment are brought to the attention of employees and affected parties prior to operational duties which include a signature of acknowledgement.

Please find below our RAMS and blank copy of the Point of Work template.

If additional Method Statements and plans need publishing these will be completed and issued under requests or as deemed necessary.

METHOD STATEMENT FOR CCTV SURVEYING
Longacre Street

This method statement applies to all CCTV survey activities of the drainage and sewerage systems and their associated assets undertaken by Layer Surveys Ltd.

Method Statement Number: 0001

Date: 04/05/22

Created by: Darren Webster

Date: 04/05/22

Reviewed by: Jason Mulhearn

Date: 04/05/22

Revision: 1

This method statement applies to all CCTV survey activities of the drainage and sewerage systems and their associated assets undertaken by Layer Surveys Ltd at the above address. A two man team of trained engineers will carry out each task and project. Works are subject to clients rules governing the work area. Dates and times for working will be set out prior to the commencement, to minimize the effects and impacts upon on the area of work. Layer Surveys will be self-managed throughout the work.

The potential hazards and risks to which the teams may be exposed are:

- . Noise/Ambience
- . High pressure water
- . Working in confined spaces
- . Weill's disease

- . Lifting operations (manual handling)
- . Falling from height (within chambers)
- . Injury from falling objects
- . Trips, slips and falls

The work by its very nature is varied and consequently will need to be risk assessed on a task specific basis. All operatives will carry out a point of works risk assessment onsite prior to any works being carried out.

This method statement sets out procedures for the CCTV surveys of the drainage and sewerage systems and their associated assets as specified by the client. Contact telephone numbers, details of working methods and actions, which are required when hazards and risks have been identified.

For some of the works to be carried out the High-pressure water jetting of designated area may be required prior to CCTV survey. If this is the case then this method statement will be added along with method statement 0002

The Site Person in Charge will have access at all times to a copy of the appropriate Method Statement whilst carrying out the work. This person will ensure that all work is completed in accordance with this accepted Method Statement.

Prior to each work commencing along will filling out a point of works risk assessment the engineers will sign off a method statement check sheet to confirm that they have read, understood and will abide by the structure and methods set out.

The people possible affected by the works described within the method statement are as follows:

1) Employees
2) Members of the Public
3) Third Party Employees

Procedure

Method Statement
1. Whilst conducting CCTV surveying all relevant PPE must be worn as described in the PPE section below
2. Carry out a Site Specific Risk Assessment and establish all required workplace precautions.
3. Sign the appropriate method statement check sheet to confirm that they understand and will work to the methods stated for each particular task.
4. On arrival the Engineers will then contact the client's responsible person and obtain necessary permits and note any special precautions required.
5. Sign and guard the working area in line with chapter 8 regulations set out in the NRSWA handbook in the appendix
6. Remove manhole covers for access and ventilation in accordance with the manual handling guidelines
7. Check gas detector operation and lower into confined space/s for a minimum of 15 minutes. 5 minutes each at the top, middle and bottom
8. During the gas test, note any unusual smells. Carry out visual checks of the stability of the structure, ladders and step irons etc
9. Entry to manholes must only be carried out by operatives trained and certificated to work in confined spaces. Entry must only be carried out when gas detectors indicate no presence of harmful gases. Harnesses, ropes, resuscitators etc must be checked and used for any entry. All details of Man hole entries are mentioned in method statement 0003
10. If gas or a structural hazard is identified, abandon entry, make the area safe and report to site agent. (works stops and is re assessed following further investigation)
11. Carry out CCTV surveying operation.
12. The CCTV surveying work will then be carried out as required by the client's specification for a particular contract. For this contract. All C.C.T.V. surveying work will be carried out in accordance with the "MODEL CONTRACT DOCUMENT FOR SEWER CONDITION INSPECTION" (May 1994).
13. After the operation is successfully completed the engineers will exit the surveying the area ensuring that all aspects are made safe, removing all equipment and chapter 8.
14. All safety and surveying equipment will be cleaned, checked and carefully stored away.
15. Any defects with any item of plant and equipment will be reported on a Defect Report Form and passed to management
16. Prior to leaving the site the engineers will sign out and let all parties know that the works have been completed. The engineer will ensure that the customer has signed all necessary paperwork (customer acceptance form)

Each CCTV surveying team will consist of:

1 x CCTV Rig Manager
1 x CCTV Engineer

The teams will be trained in:

OS20.X Pipe Condition Surveying

High pressure water jetting techniques

Emergency first aid

NRASWA - signing, lighting and guarding

Working in confined spaces:

Relevant certificates will be obtained by the client prior to work commencing

Portable tools used will be hand tools such as shovels, drain scoops and buckets. Special items will be detailed on the list of equipment to be used for each job.

All plant brought onto site will be regularly maintained and tagged for identification purposes. The CCTV surveying unit will be located as close as possible to the work area as is permitted.

The client's assets will be protected during the course of all work. When working in an environment that has specialist requirements a detailed site-specific method statement will be carried out to reflect the requirements.

Care will be taken to ensure that all hazardous substances will be stored and handled in accordance with the manufactures safety data sheets and COSHH assessments

Should the camera robotic unit get trapped at any one point the following system for retrieval will commence.

1. With the steal armoured cable we will manually try to pull/dislodge the unit.
2. We would continue to drive the unit to next possible manhole, detach the unit and retrieve this way.
3. If the above 2 attempts fail, we would instruct another of our units to attend to attach a pull cord to either side of the trapped unit in order to than manually retrieve.
4. If all else fails the last case scenario would be to dig down to the line following communications with UU.

Temporary lighting will be provided by Layer Surveys Ltd throughout the duration of the works by using Portable electric lighting rigs, Hand held intrinsically safe battery powered torches.

Power will be obtained from the client's power sources wherever possible. However, if this is not available, approved portable diesel generators will be used.

Details of any applicable COSHH assessments will be kept on file and all team members will be required to read and understand this file. If asbestos is found to be present in any working area, the client will be notified and further instructions obtained.

All vehicles will carry an accident book and are equipped with a suitable first aid kit.

A Nominated First Aider is available on each rig with the necessary first aid equipment

All the client's Fire Evacuation Procedures will be carried out as per site instructions. Which will be highlighted in the sites inductions prior to works commencement.

Required PPE

PPE	Item	Standard	When Required
Head Protection	Safety Helmet	EN 397	At all times.
Eye Protection	Goggles – Impact grade	EN 166 .1.B.3.4.9	Where risk exists of eye injury i.e. where dusts, airborne particles are present, debris etc.
Foot Protection	Safety Boots (Steel Toe-Caps & Mid Sole)	EN 345 / S3	At all times.

Hand Protection	Gloves	EN 388 (2243)	When entering excavation, general duties, handling materials, working with sewage etc.
Ear Protection	Muffs or Plugs	EN 352-1 352-2	Where noise levels exceed 80dB(A); whilst using breakers etc.
Body Protection	Waterproof Clothing - High Visibility Overalls	EN 471	At all times Overalls to be worn as determined by supervisor; when working with sewage etc.
Confined Space Equipment	Refer to relevant Confined Space Risk Assessment for Equipment and PPE required		For work in confined spaces.

All accidents near misses will be recorded in the accident book and reported to the responsible person on site. All records in the accident book which will be passed to the health and safety team at Layer Surveys Ltd

For any emergencies or to report a near miss please find his contact details below:

Tel: 01772 611634

Mob: 07341 953636

Email: Darren@layersurveys.co.uk

Address: Francis House, Meadowcroft Business Park, Pope Lane, Preston, PR4 4BA

All working areas on all sites will be left clean, tidy, clear of any obstruction and safe on completion of works. All waste will be removed from site and disposed of to a licenced waste transfer station.

The working will be isolated using signing, lighting and guarding in accordance with Chapter 8 of the NRASWA 1991. Notices of warning of CCTV survey activities are erected in prominent positions for the protection of employees and the general public.

The system of dealing with noise and vibration assessments and preventative action is contained within the project plan. If the supervisor is concerned regarding noise and vibration levels of an activity or an item of plant he must refer to the Quality/Safety department, who will plan the necessary course of action. If noise or vibration assessments and specialized prevention measures are required, a specific risk assessment and method statement will be prepared.

The teams carrying out the CCTV surveying work will ensure that no materials or debris are allowed to enter any watercourse or drainage outlets or channels.

Should any special measures be required these will be the subject of a separate instruction from the client and a specific method statement raised by Layer Surveys Ltd and agreed with the client before work commences.

METHOD STATEMENT FOR HIGH PRESSURE WATER JETTING
Longacre Street

This method statement applies to all High Pressure water Jetting activities of the drainage and sewerage systems and their associated assets undertaken by Layer Surveys Ltd.

Method Statement Number: 0002

Date: 04/05/22

Created by: Darren Webster

Date: 04/05/22

Reviewed by: Jason Mulhearn

Date: 04/05/22

Revision: 1

The purpose of the work to which this method statement applies is the cleaning of the drains and associated assets by means of high pressure water jetting by Layer Surveys Ltd.

This method statement applies to all drain and sewer cleaning activities of drainage and sewerage systems and associated assets.

A two man team of trained engineers will carry out each task and project. Works are subject to client's rules governing the work area. Dates and times for working will be set out prior to the commencement, to minimize the effects and impacts upon on the area of work.

The potential hazards and risks to which the teams may be exposed are:

- . High-pressure water
- . Working in confined spaces
- . Weil's disease
- . Lifting operations (manual handling)
- . Falling from height whilst working from ladders or above chambers etc
- . Injury from falling objects
- . Tripping
- . Injury from high-pressure water
- . Contact with site traffic.

The work by its very nature is varied and consequently will need to be risk assessed on a task specific basis. All operatives will carry out a point of works risk assessment onsite prior to any works being carried out.

This method statement sets out procedures for the cleaning of drains, sewers and associated assets by means of high-pressure water jetting as specified. Contact telephone numbers, details of working methods and actions, which are required when hazards and risks, have been identified.

Following the cleaning of the assets through the means of High-pressure water jetting. A CCTV drainage survey may be carried. If this is the case then this method statement will be added to method statement 0001.

The Site Person in Charge will have accessible at all times a copy of the accepted Method Statement whilst carrying out the work. This person will ensure that all work is completed in accordance with this accepted Method Statement. Prior to each work commencing along will filling out a point of works risk assessment the engineers will sign off a method statement check sheet to confirm the have read, understood and will abide by the structure and methods set out.

The possible people effected by the works described within the method statement are as follows:

1) Employees
2) Members of the Public
3) Third Party Employees

Procedure

Method Statement
1. Whilst conducting carrying out high pressure water jetting all relevant PPE must be worn as described in the PPE section below
2. Carry out a Site Specific Risk Assessment and establish all required workplace precautions.
3. Sign the appropriate method statement check sheet to confirm that they understand and will work to the methods stated for each particular task.
4. On arrival the Engineers will then contact the client's responsible person and obtain necessary permits and note any special precautions required.
5. Sign and guard the working area in line with chapter 8 regulations set out in the NRSWA handbook in the appendix
6. Remove manhole covers for access and ventilation in accordance with the manual handling guidelines
7. Check gas detector operation and lower into confined space/s for a minimum of 15 minutes. 5 minutes each at the top, middle and bottom
8. During the gas test, note any unusual smells. Carry out visual checks of the stability of the structure, ladders and step irons etc.
9. Entry to manholes must only be carried out by operatives trained and certificated to work in confined spaces. Entry must only be carried out when gas detectors indicate no presence of harmful gases. Harnesses, ropes, resuscitators etc. must be checked and used for any entry. All details of Man hole entries are mentioned in method statement 0003
10. If gas or a structural hazard is identified, abandon entry, make the area safe and report to site agent. (works stops and is re assessed following further investigation)
11. Ensure adequate supply of water, layout hoses and visually check for damage and leaks.
12. Assemble HPWJ equipment and check joints.
13. Ensure HPWJ filters are clean and sound
14. Visually check that correct size and type of nozzle is fitted for this HPWJ application.
15. Increase pressure on HPWJ slowly until operating conditions are reached.
16. The downstream outlet on any chamber shall be covered with the vacuum hose. The vacuum unit shall remove all water, debris and or silt and remove from site to dispose of at a licensed tip
17. Throughout the works the engineer will regularly check HPWJ unit operating conditions (oil and water pressure, pipework hoses and signing and guarding). He will ensure that any line pressure or vacuum is released on shutdown and completion.
18. After the operation is successfully completed the engineers will exit the cleaning area ensuring that all aspects are made safe, removing all equipment and chapter 8.
19. All safety and surveying equipment will be cleaned, checked and carefully stored away.
20. Any defects with any item of plant and equipment will be reported on a Defect Report Form and passed to management
21. Prior to leaving the site the engineers will sign out and let all parties know that the works have been completed. The engineer will ensure that the customer has signed all necessary paperwork (customer acceptance form)

Required PPE

PPE	Item	Standard	When Required
Head Protection	Safety Helmet	EN 397	At all times.
Eye Protection	Goggles – Full Face Visor/Mask	EN 166 .1.B.3.4.9	Jetting operations.
Foot Protection	Safety Boots (Steel Toe-Caps)	EN 345 / S3	At all times.
Hand Protection	Gloves	EN 388 (2243)	Jetting operations (Water Proof).
Ear Protection	Muffs or Plugs	EN 352-1 352-2	Jetting operations; where noise levels exceed 85dB(A).

High Visibility Clothing	Jacket	EN 471 (Class 3)	At all times.
Body Protection	Waterproof Clothing	EN 471	When required during jetting operations.
Atmospheric monitoring	Gas Detector - 4 headed	-	For confined spaces, deep excavations etc. Before and during entry.
Specific Confined Space Equipment	Refer to relevant Confined Space Risk Assessment for Equipment and PPE required In method statement 0007		For confined spaces, deep excavations etc. Before and during entry.

Each drain cleaning team will consist of:

- 1 x Jet vac Manager
- 1 x Jet Vac Engineer

The teams will be trained in:

- High-pressure water jetting techniques
- Emergency first aid
- NRASWA - signing, lighting and guarding
- Working in confined spaces
- Tool Box Talks as appropriate at the start of each shift
- Safe Manual Handling Techniques
- CSCS

If a confined space is considered to be sufficiently hazardous as to give rise to specific risks, then a Permit to Work system will be used and a site-specific risk and method statement completed and the client's site agent informed immediately.

The client's assets will be protected during the course of all work. When working in an environment that has specialist requirements a detailed site-specific method statement will be carried out to reflect the requirements.

Care will be taken to ensure that all hazardous substances will be stored and handled in accordance with the manufactures safety data sheets and COSHH assessments

Temporary lighting will be provided by Layer Surveys Ltd throughout the duration of the works by using Portable electric lighting rigs, Hand held intrinsically safe battery powered torches. Power will be obtained from the client's power sources wherever possible. However, if this is not available, approved portable diesel generators will be used.

Details of any applicable COSHH assessments will be kept on file and all team members will be required to read and understand this file. If asbestos is found to be present in any working area, the client will be notified and further instructions obtained.

All vehicles will carry an accident book and are equipped with a suitable first aid kit.

A Nominated First Aider is available on each rig with the necessary first aid equipment

All the client's Fire Evacuation Procedures will be carried out as per site instructions. Which will be highlighted in the sites inductions prior to works commencement.

All accidents near misses will be recorded in the accident book and reported to the responsible person on site. All records in the accident book which will be passed to the health and safety team at Layer surveys ltd.

For any emergencies or to report a near miss please find his contact details below:

Tel: 01772 611634

Mob: 07341 953636

Email:Darren@layersurveys.co.uk

Address: Francis House, Meadowcroft Business Park, Pope Lane, Preston, PR4 4BA

All working areas on all sites will be left clean, tidy, clear of any obstruction and safe on completion of works. All waste will be removed from site and disposed of to a licenced waste transfer station.

The working will be isolated using signing, lighting and guarding in accordance with Chapter 8 of the NRASWA 1991. Notices of warning of CCTV survey activities are erected in prominent positions for the protection of employees and the general public.

The system of dealing with noise and vibration assessments and preventative action is contained within the project plan. If the supervisor is concerned regarding noise and vibration levels of an activity or an item of plant he must refer to the Quality/Safety department, who will plan the necessary course of action. If noise or vibration assessments and specialized prevention measures are required, a specific risk assessment and method statement will be prepared.

The teams carrying out the jetting surveying work will ensure that no materials or debris are allowed to enter any watercourse or drainage outlets or channels.

Should any special measures be required these will be the subject of a separate instruction from the client and a specific method statement created by Layer Surveys Ltd and agreed with the client, before work commences.

METHOD STATEMENT FOR CONFINED SPACE ENTRY
Longacre Street

This method statement applies to all Confined Space Entry activities of the drainage and sewerage systems and their associated assets undertaken by

Layer Surveys Ltd.

Method Statement Number: 0003

Date: 04/05/22

Created by: Darren Webster

Date: 04/05/22

Reviewed by: Jason Mulhearn

Date: 04/05/22

Revision: 1

The purpose of this Method Statement is to provide a safe system of work to personnel engaged in Confined Spaces Operations undertaken by Layer Surveys Ltd

This Method Statement therefore applies covers the following Drainage related activities:

➤ CCTV SURVEY

This method statement has been created due to the fact that we have no other option than to enter the drainage system to collate the information required. Other attempts to collate this information by using remote unit have not worked.

The potential hazards and risks to which the teams may be exposed are:

- . Noise/Ambience
- . High pressure water
- . Working in confined spaces
- . Weils disease
- . Lifting operations (manual handling)
- . Falling from height (within chambers)
- . Injury from falling objects
- . Tripping

The work by its very nature is varied and consequently will need to be risk assessed on a task specific basis. All operatives will carry out a point of works risk assessment onsite prior to any works being carried out. (Please find attached with this documentation a blank copy)

This method statement sets out procedures for entry into confined spaces of the drainage and sewerage systems and their associated assets as specified by the client. Contact telephone numbers, details of working methods and actions, which are required when hazards and risks have been identified.

The Site Person in Charge for these works will have accessible at all times a copy of the accepted Method Statement whilst carrying out the work. This person will ensure that all work is completed in accordance with this accepted Method Statement. Prior to each work commencing along will filling out a point of works risk assessment the engineers will sign off a method statement check sheet to confirm the have read, understood and will abide by the structure and methods set out. Please see a copy of this below.

The possible people effected by the works described within the method statement are as follows:

1) Employees
2) Members of the Public
3) Third Party Employees
4) Local vehicles and Traffic

Procedure

Method Statement
1. Whilst conducting CCTV surveying all relevant PPE must be worn as described in the PPE section below
2. Carry out a Site Specific Risk Assessment and establish all required workplace precautions.
3. Sign the appropriate method statement check sheet to confirm that you understand and will work to the methods stated for each particular task.
4. On arrival the Engineers will then contact the client's responsible person and obtain necessary permits and note any special precautions required.
5. Sign and guard the working area in line with chapter 8 regulations set out in the NRSWA handbook in the appendix
6. Erect the Man riding winch tripod and entry gear to allow the operatives to work within the Controlled confined space environment. At the upstream access point.
7. Check gas detector operation and lower into confined space/s for a minimum of 15 minutes. 5 minutes each at the top, middle and bottom
8. During the gas test, note any unusual smells. Carry out visual checks of the stability of the structure, ladders and step irons etc
9. Entry to manholes must only be carried out by operatives trained and certificated to work in confined spaces. Entry must only be carried out when gas detectors indicate no presence of harmful gases. Harnesses, ropes, resuscitators
10. If gas or a structural hazard is identified, abandon entry, make the area safe and report to site agent. (Works stops and is re assessed following further investigation).
11. The relevant works to be carried out i.e. jetting method 0002 or CCTV 0001
12. SHOULD FOR ANY REASON WORKS ARE NOT COMPLETED DUE TO AN EMERGENCY OF GAS MONITOR GOES OFF THE ESCAPE PLAN WILL BE BROUGHT INTO PLACE. please find this below.

13. After the operation is successfully completed the engineers will exit the surveying the area ensuring that all aspects are made safe, removing all equipment and chapter 8.
14. All safety and surveying equipment will be cleaned, checked and carefully stored away.
15. Any defects with any item of plant and equipment will be reported on a Defect Report Form and passed to management
16. Prior to leaving the site the engineers will sign out and let all parties know that the works have been completed. The engineer will ensure that the customer has signed all necessary paperwork (customer acceptance form)

Each CCTV surveying team will consist of:

- 1 x CCTV Rig Manager
- 2 x CCTV Engineer

The teams will be trained in:

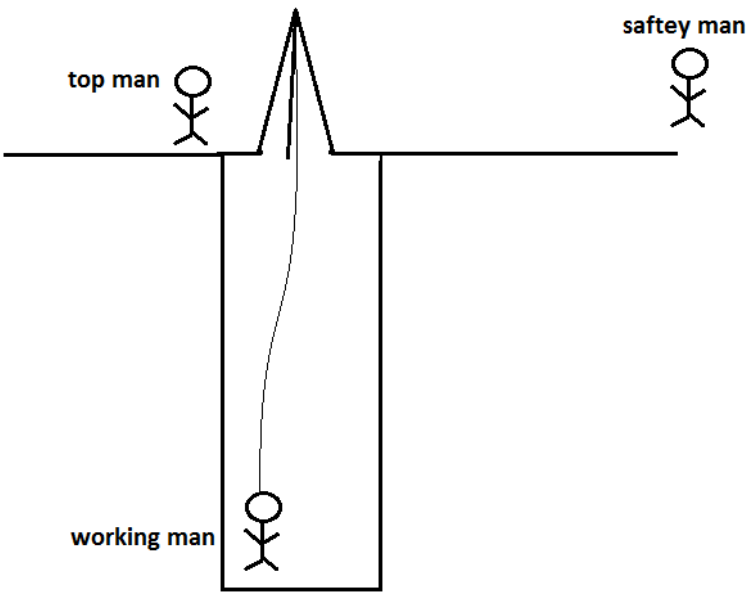
- OS20.X Pipe Condition Surveying
- High pressure water jetting techniques
- Emergency first aid
- NRASWA - signing, lighting and guarding
- High risk city and guilds working in confined spaces.
- Relevant certificates will be obtained by the client prior to work commencing

Emergency Escape plan

This plan has been designed to efficiently vacate the Confined space area in the event of the emergency. Prior to the works being carried out we have already carried out a site visit to identify the types of depths of the excavations and Manhole chambers. The chambers specified within the works are from 0.2 meters deep to 5 meters deep. There are no side landing within the chambers so our engineers will have no need to unhook from the man riding line at any point. Access into the chambers will also be carried out from within excavations, entry into these excavations will also be deemed as a confirmed space.

Please see the sketches below which shows the layout of how the engineers will be positioned with one a landing. The team will be made up of

- 1 X working Man
- 1 X Top Men
- 1 X safety Man who will be positioned away from the works but in contact



Emergency Escape Plan Method when all parties are able
1. Prior to all works commencing all equipment and calibration checks will be made.

2.	In the event of an emergency all able operatives will shout GAS, GAS, GAS, which will be the starting command for carrying out this procedure stated.
3.	On this command both the working man and guide man will don on their 15 minute positive pressure escape set? In coordinate with their confined space training.
4.	The top man will wind the engineer up using the retrieval blocks that the working man and guide man will constantly be attached to.
5.	Once all above ground the engineers will unhook and move to a safe area for a debrief.
6.	The safety man will notify any of the relevant parties and work will stop until an assessment can be bone on the working conditions.

Emergency Escape Plan Method when the working man is NOT able	
1.	Prior to all works commencing all equipment and calibration checks will be made.
2.	In the event of an emergency all able operatives will shout GAS, GAS, GAS, which will be the starting command for carrying out this procedure stated.
3.	On this command the guide man if able will don their 15-minute positive pressure escape set. In coordinate with their confined space training.
4.	The safety man will be notified and emergency services will be called
5.	If the working man has collapsed. The top man will wind the engineer up using the retrieval blocks that the working man will constantly be attached to.
6.	Once above ground all parties will move away from the area and carry out emergency first aid until the emergency services arrive.
7.	The safety man will notify any of the relevant parties and work will stop until an assessment can be bone on the working conditions.

On completion of the escape plan no works will be carried out until safe to do so.
If possible, the injured operative(s) will be taken to the local Accident and emergency department.

Portable tools used will be hand tools such as shovels, drain scoops and buckets. Special items will be detailed on the list of equipment to be used for each job.

All plant brought onto site will be regularly maintained and tagged for identification purposes. The CCTV surveying unit will be located as close as possible to the work area as is permitted.

The client's assets will be protected during the course of all work. When working in an environment that has specialist requirements, detailed site-specific RAMS will be carried out to reflect the requirements.

Care will be taken to ensure that all hazardous substances will be stored and handled in accordance with the manufactures safety data sheets and COSHH assessments

Temporary lighting will be provided by Layer Surveys Ltd throughout the duration of the works by using Portable electric lighting rigs, Hand held intrinsically safe battery powered torches. Power will be obtained from the client's power sources wherever possible. However, if this is not available, approved portable diesel generators will be used.

Details of any applicable COSHH assessments will be kept on file and all team members will be required to read and understand this file. If asbestos is found to be present in any working area, **work will stop** and the client will be notified and further instructions obtained.

All vehicles will carry an accident book and are equipped with a suitable first aid kit. A Nominated First Aider is available on each rig with the necessary first aid equipment

All the client's Fire Evacuation Procedures will be carried out as per site instructions. Which will be highlighted in the sites inductions prior to works commencement.

Required PPE

PPE	Item	Standard	When Required
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Head Protection	Safety Helmet	EN 397	At all times.
Eye Protection	Goggles – Impact grade	EN 166 .1.B.3.4.9	Where risk exists of eye injury i.e. where dusts, airborne particles are present, debris etc.
Foot Protection	Safety Boots (Steel Toe-Caps & Mid Sole)	EN 345 / S3	At all times.
Hand Protection	Gloves	EN 388 (2243)	When entering excavation, general duties, handling materials, working with sewage etc.
Ear Protection	Muffs or Plugs	EN 352-1 352-2	Where noise levels exceed 85dB(A); whilst using breakers etc.
Body Protection	Waterproof Clothing - High Visibility Overalls	EN 471	At all times Overalls to be worn as determined by supervisor; when working with sewage etc.
Confined Space Equipment	Refer to relevant Confined Space Risk Assessment for Equipment and PPE required		For work in confined spaces.

All accidents near misses will be recorded in the accident book and reported to the responsible person on site. All records in the accident book which will be passed to the health and safety team at Layer Surveys Ltd.

For any emergencies or to report a near miss please find his contact details below:

Tel: 01772 611634

Mob: 07341 953636

Email: Darren@layersurveys.co.uk

Address: Francis House, Meadowcroft Business Park, Pope Lane, Preston, PR4 4BA

All working areas on all sites will be left clean, tidy, clear of any obstruction and safe on completion of works. All waste will be removed from site and disposed of to a licenced waste transfer station.

The working will be isolated using signing, lighting and guarding in accordance with Chapter 8 of the NRASWA 1991. Notices of warning of any activities are erected in prominent positions for the protection of employees and the general public.

The system of dealing with noise and vibration assessments and preventative action is contained within the project plan. If the supervisor is concerned regarding noise and vibration levels of an activity or an item of plant he must refer to the Quality/Safety department, who will plan the necessary course of action. If noise or vibration assessments and specialized prevention measures are required, a specific risk assessment and method statement will be prepared.

The teams carrying out the CCTV surveying work will ensure that no materials or debris are allowed to enter any watercourse or drainage outlets or channels. When working by an open

APPLICABLE REGULATIONS/SITE INSTRUCTIONS

CDM regulations 2015

Health and Safety at Work Act 1974

Manual Handling Operations Regulations 1992

Provision and Use of Work Equipment Regulations 1998

Personal Protective Equipment Regulations 1992

Working at Height Regulations 2005

Control of Substances Hazardous to Health Regulations 2002

Confined Space Regulations 1997

Lifting Operations and Lifting Equipment Regulations 1998

Layer Surveys H.S.E Policy and Procedures.

Should any special measures be required these will be the subject of a separate instruction from the client and a specific method statement created by Layer Surveys Ltd and agreed with the client, before work commences.

All operatives must sign, name and confirm that they have read and completely understand and will comply all that has been put into the method statement.

Name	Signature	Date

Apparatus check sheet.

All apparatus used throughout the confined space entry must be checked prior to use and a recorded signed off before use. If any problems are identified during these checks then they must not be used.

Unit Name	Unit Code	Calibration expiry date	Have checks on the unit been carried out?	Is the unit safe to use?	Notes if not safe to use

Name	Position	Signature	Date

Risk assessment Reference Number		RALS003		Likelihood: 1=Remote, 2 = Unlikely, 3= Likely 4= Very Likely 5= Extremely Likely Severity 1= Insignificant 2= Minor 3= Moderate, 4= Major, 5= Fatality/Severe			
Conducted by	Darren Webster, Director	Date	04/05/2022	Risk Rating = Likelihood x Severity			
Longacre Street		High Pressure Water Jetting		Hierarchy of control 1. Eliminate Hazard 2. Reduce Hazard 3. Prevent contact with Hazard 4. Form a Safe System of Work 5. Use Personal Protective Equipment			
Method Statement number		MSLS003					
COSHH Number		N/A					

		Severity				
		1	2	3	4	5
Likelihood	1	1	2	3	4	5
	2	2	4	6	8	10
	3	3	6	9	12	15
	4	4	8	12	16	20
	5	5	10	15	20	25

Who is at risk:	Employees ☒	Young Person ☒	Site personnel ☒	Inexperienced Person ☒	Contractors ☒	Public ☒
What is the risk:	Property ☒	Environmental ☒	Personnel Injury ☒	Equipment ☒	Brand ☐	*

<u>Describe the operation being performed:</u>
- Ensure that all agreed emergency arrangements are in place and are fully understood. - Ensure that all safety equipment is in good working order. - Ensure that the work area is adequately guarded with safety zone and full Chapter 8' Red Book' in place. - Ensure that the work area is clear of debris that might impede movement. - No operative may operate a high-pressure water jet unless they have been trained and is competent to do so. - No operative may enter a confined space without the relevant certification and training - Ensure all equipment is within specified test dates if required. - Ensure all team members are wearing the specified Personal Protective Equipment (PPE) & high visibility clothing - Complete a 'Site Specific Risk Assessment' and communicate to all operatives on site and make sure they are aware and understand all hazards. - Identify a suitable water supply and seek approval for use if necessary. - Set up the equipment and attach the water supply to the jetting unit. - The Team leader must check suction hoses, jetting hoses (including leader hoses), fuel, oil levels and gauges. - Ensure that the unit jet operator can see the operator at the jet head from his working position. If not, additional operatives must be available on site in order to maintain contact between the jetting unit and the jet head operator. Alternatively, the team could use two-way radios or similar devices. - Open the manhole covers and use ventilation where required. - Allow water through the nozzle producing a jet of water which has a reaction force capable of propelling the nozzle up the sewer pipe. This must be controlled at all times. - All works must be in accordance with HPJ training. Once the works are complete, remove all signage, tools and equipment from site.

Emergency Procedures Required	Personnel Protective Equipment Required
- First aid Kit and First Aid Personnel known whereabouts - Site emergency procedures known	- Hard Hat & Face Guard, - Atmospheric monitoring - Protective Footwear, - Hand Protection - Hi-Visibility Coat/Vest - Specific Confined Space Equipment - Hearing Protection

Mechanical Hazards			
1	Entanglement	☒	
2	Friction / Abrasion	☐	
3	Stabbing / Puncture	☐	
4	Drawing in / Trap	☐	
5	Ejection of Material	☒	
6	Impact	☒	
7	Cutting	☒	
8	Shear	☐	
9	High Pressure	☒	
10	Weather	☒	

Other Hazards			
11	Electricity	☐	
12	Noise	☒	
13	Slip / Trip	☒	
14	Vibration	☒	
15	Manual Handling	☒	
16	Substances	☐	
17	Lighting	☒	
18	Stability	☐	
19	Fire	☐	
20	Controls	☒	
21	Deep Water	☐	
22	Ergonomic	☒	
23	Human Error	☒	
24	Falls from Height	☐	
25	Collapse of excavation	☐	
26	Dust	☐	
27	Traffic	☐	
28	Contamination	☐	
29	Public/other trades	☒	
30	Buried services	☐	

Ref. (See above)	Type of Hazard	Possible Injury / Harm	Pre-controls			Controls	Post-controls		
			S	L	RR		S	L	RR
1, 4, 5, 6, 7	Dangerous parts of machinery	Major	5	5	25	- All dangerous parts of the machinery must be adequately guarded. - DO NOT remove guards during operation - Do not wear any loose fitting clothing. - Use two hands when using lance - Equipment must only be operated by trained and authorised persons. - All long hair must be tied back - Ensure you wear full PPE when water Jetting	5	1	5 (Low)
9	Pressure systems	Major	5	5	25	- All pressure hoses must be inspected on a regular basis. - Only authorised/trained personnel working to the Code of Practice, (HPWJ) should carry out the work. - Ensure that the equipment is maintained to the manufacturer's specification. - Ensure that the pressure release valve and any other safety features are working correctly. - Do not use if any defects are noted. Report all defects to your supervisor.	5	1	5 (Low)
9,	Contact with the water jet/back spray	Major	5	5	25	- The lance MUST NOT be pointed towards any person. - All persons other than the lance operator must be kept out of the working area. - The working area must be suitably guarded.	5	1	5 (Low)

						- The lance operator must wear the required PPE at all times whilst using the equipment i.e. safety footwear, impact grade goggles/face visor, waterproof overalls, impervious gloves and safety helmet as demonstrated in PPE section. - The jetter must only be turned on when the head is in the sewer or the lance within the confines of a well.			
10	Weather	Moderate	3	4	12	- Monitor forecast for the day - Do not work in heavy rain - Stop work if it starts to snow (Heavy Snow) - Do not attempt to work in dense fog.	3	1	3 (Low)
12	Noise	Moderate	3	4	12	- Ear protection to be worn when working in the vicinity of the jetting equipment i.e. when noise levels exceed 80dB(A). See PPE section of this risk assessment - Lowest noise producing equipment used.	3	1	3 (Low)
13	Slips, trips and falls	Major	4	4	16	- Implement good housekeeping procedures - Avoid having tools and equipment left lying around when not in use. - Keep the site tidy at all times - Clear routes must be established for access and egress into the work area. - Anti-Slip Footwear to be worn	4	1	4 (Low)
14	Vibration	Major	5	5	25	- Operatives must keep their hands and bodies warm by wearing suitable gloves and clothing. This will maintain the blood supply to the hands and fingers. - No smoking when operating vibrating equipment. - Work breaks must be built into the working day whilst using this equipment, e.g. job rotation and carrying out alternative duties. - Defective equipment must not be used and reported to the Supervisor. - Operatives are to exercise their fingers by opening and clenching their fist, and massaging their hands to restore circulation.	5	1	5 (Low)
15	Manual handling	Moderate	3	4	12	- Read and implement the controls in Risk Assessment 'Manual Handling' - All operatives to have Manual handling Training - Prolonged use of a lance is to be avoided. Ensure adequate rest time. - Do not lift any object you feel is too heavy or may cause injury. - Ask for assistance where necessary (two man lift) - Use mechanical lifting equipment where possible	3	1	3 (Low)
20	Defective equipment	Major	5	5	25	- The jetter, hoses and lances must be examined prior to use in order to identify any defects, which should be reported. - The work must not commence if the equipment is considered dangerous. - All defects must be reported to your supervisor/head office. - The pressure system and gauges must be regularly maintained and calibrated.	5	1	5 (Low)
23	Residents/third party/members of the public	Major	5	5	25	- The working area must be effectively guarded before the work commences in line with Chapter 8 'Red Book'. - Establish a safety zone 5m around the jetting area if above ground. - Ensure that adequate provision is made for pedestrian access, and that it is clearly signed. - The manhole opening must be guarded at all times.	5	1	5 (Low)
28	Sewage	Major	5	5	25	- Operatives must wear gloves, face visors/masks, overalls and safety footwear when working with sewage. See PPE section of this risk assessment. - Operatives must avoid touching their face, smoking, eating and drinking, until they have washed their hands and face thoroughly with soap and water.	5	1	5 (Low)

						- Operatives must clean all exposed wounds no matter how small, and cover them with a sterile waterproof plaster - Operatives must change out of contaminated clothing before eating drinking or smoking. - Operatives must not take contaminated clothing home. Laundry facilities are available on site. - Operatives must consult their doctor in the event of experiencing flu like illness or fever, particularly when associated with severe headache and skin infections.			
29	Untrained operative	Major	4	3	12	- The operator must be trained and competent in the use of jetting equipment. - The operative must be competent to carry out pre-use checks of the jetter and documented weekly maintenance checks.	4	1	4 (Low)

<i>RISK RATING</i>	LOW RISK 1-5	MEDIUM RISK 6-12	HIGH RISK 13-25
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The area below can be used to expand/ indicate additional control measures according to specific risks presented according to location or task.

DYNAMIC ACTION PLAN TO REDUCE RISK					Action Approval	
Ref.	Action Required	Responsible	Completion Date	Review Date	Management Approval	

There are NO dynamic hazards to be considered and it is SAFE to proceed		I have added extra risk controls and the dynamic hazards are controlled and it is SAFE to proceed (As above)	
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Review Timetable

Review No. 1	Review No. 2	Review No. 3	Review No. 4	Review No. 5
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Name		Name		Name		Name		Name	
Signature		Signature		Signature		Signature		Signature	
Due Date:		Due Date:		Due Date:		Due Date:		Due Date:	
Actual Date:		Actual Date		Actual Date		Actual Date		Actual Date	

Confirmation of agreement and understanding

I have read, understood and agree to work by the risk contained within this risk assessment. I have been given the opportunity to ask questions and have had them satisfactorily answered.		
Name	Signature	Date

Risk assessment Reference Number				Likelihood: 1=Remote, 2 = Unlikely, 3= Likely 4= Very Likely 5= Extremely Likely											
Conducted by		Darren Webster, Director		Date		04/05/2022		Risk Rating = Likelihood x Severity							
Longacre Street		Confined Spaces													
Method Statement number		MSLS001													
COSHH Number		N/A								Hierarchy of control 6. Eliminate Hazard 7. Reduce Hazard 8. Prevent contact with Hazard 9. Form a Safe System of Work 10. Use Personal Protective Equipment					

		Severity					
		1	2	3	4	5	
Likelihood	1	1	2	3	4	5	
	2	2	4	6	8	10	
	3	3	6	9	12	15	
	4	4	8	12	16	20	
	5	5	10	15	20	25	

Who is at risk:	Employees ☒	Young Person ☒	Site personnel ☒	Inexperienced Person ☒	Contractors ☒	Public ☒
What is the risk:	Property ☒	Environmental ☒	Personnel Injury ☒	Equipment ☒	Brand ☐	*

<u>Describe the operation being performed:</u>
- All operatives involved in confined space activities must be trained and competent to carry out work. - Where appropriate give notification of presence on site to the occupier. - Sign and guard the working area in accordance with Chapter 8 'Red Book' where necessary. - The no smoking prohibition should be enforced both in the confined space and within a 2 metre radius of the entry and ventilation points. - Ensure that all confined space equipment is available on site and is in good working order. - The Competent Person (CP) in charge of the operation on site who will act as top man must check that communication, in the form of either a telephone or a radio, are immediately available and operational. - CP must ensure all confined space equipment checks are carried out and the Confined Space Equipment Log Book has been completed. - Using the correct equipment, remove and open any manhole covers necessary to provide access and/or ventilation. - Visually check that safety grills are detached from manhole covers and in the correct position. - Ensure gas detector is working correctly, lower into confined space and monitor for at least fifteen minutes prior to entry. - Carry out a visual check of the stability of the structure, including ladders, step irons etc. - Assemble the winching system, put on safety harness and make ready the resuscitator. - If gas or a significant structural hazard is identified, abandon the entry, make the area safe by replacing covers/barriers etc, and immediately report the conditions to your immediate supervisor or manager. - Minor structural problems should be reported at the end of the working day. - The CP in charge of the operation, having established that there is no gas hazard and that the structure appears sound, must complete the Confined Space Entry Logbook. - The CP acting as Top-man will attach the winch cable to the safety harness worn by the person who will make the entry. In cases where direct lowering without the use of ladders or step irons is proposed, or if their condition is suspect, an additional safety line shall also be attached and manually played out as a supplement to the winch cable. This will require either a second Top-man to handle the safety line or an approved inertia clutch device must be used to automatically control the safety line. - The entry may now proceed with the winch cable being controlled through the clutch mechanism as the man climbs down or is lowered into the confined space. - Under no circumstances may the winch cable be disconnected from the safety harness whilst in the confined space.

- In circumstances where it is not practicable to use a winch (e.g. Side entry or limited space) then a site specific risk assessment and method statement must be undertaken and agreed with your Supervisor before work commences.
- In the event of the gas detector alarm activating or the man feeling unwell or detecting unusual odours, he must instruct the winch man to winch him from the confined space.
- If escape breathing apparatus is being carried then it should be put on.
- The Top-man / Winch-man must continuously observe the man in the confined space and immediately winch him out should he appear to be in difficulty and unable to communicate.
- Evacuation of the confined space due to a gas alarm must be immediately reported to the line supervisor or manager.
- No further entry should be made until the situation has been positively re-assessed and confirmed with the supervisor or manager by the CP in charge of the operation. Re-entry in these circumstances must start from the beginning.
- If an operative has had to be evacuated in an emergency, first aid might be necessary.
- Having winched the casualty out, observe his condition and if necessary, e.g. in the event of unconsciousness, request an ambulance. **DO NOT DELAY – ACT IMMEDIATELY.**
- Under no circumstances must the Top-man enter the confined space to attempt a rescue.
- Egress under normal circumstances will require careful control of the winch and particular care will be necessary when manoeuvring at the head of the chamber.
- At the completion of the operation all covers etc. must be replaced, barriers removed and the site left in a safe condition. Where it is necessary to leave covers off for ventilation purposes, the opening must be effectively and securely fenced to prevent unauthorised entry.
- At the end of the working day:
 - Check and store safety equipment.
 - Report any equipment defects, operational problems or faults to the supervisor and log them in the Confined Space Equipment Log Book.
 - Report the completion of work.

Emergency Procedures Required

- **No Lone working**
- **First aid Kit and First Aid Personnel known whereabouts**
- **Site emergency procedures known**

Hierarchy of use and PPE Requirements

- **Monitoring Systems in place**
- **Choice of equipment (lowest noise, vibration, etc.)**
- **Personal protective equipment**
- **Eye Protection**
- **Hearing Protection**
- **Protective footwear**
- **Hand Protection**
- **Breathing Apparatus**

Mechanical Hazards

1 Entanglement	☐	6 Impact	☐
2 Friction / Abrasion	☐	7 Cutting	☐
3 Stabbing / Puncture	☐	8 Shear	☐
4 Drawing in / Trap	☐	9 High Pressure	☐
5 Ejection of Material	☐	10 Weather	☒

Other Hazards

11 Electricity	☒	16 Substances	☒	21 Deep Water	☐	26 Dust	☐
12 Noise	☒	17 Lighting	☒	22 Ergonomic	☒	27 Traffic	☐
13 Slip / Trip	☒	18 Stability	☒	23 Human Error	☒	28 Contamination	☒
14 Vibration	☒	19 Hot / Cold Surfaces	☐	24 Falls from Height	☒	29 Public/other trades	☐
15 Manual Handling	☒	20 Controls	☐	25 Collapse of excavation	☐	30 Buried services	☐

Ref. (See above)	Type of Hazard	Possible Injury / Harm	Pre-controls			Controls	Post-controls		
			S	L	RR		S	L	RR
10	Adjacent Deep or Running Water / High Water Table / Flooding	Major	5	5	25	- The Top-man must continuously monitor weather conditions via the MET office/Environmental Agency or the client. The site must be continuously monitored for any changes in conditions. - A procedure for responding to adverse weather warnings must be produced and enforced prior to work commencing. - Signage in place to prohibit unauthorised access to work area.	5	1	5 (Low)
11	Electrical Equipment Systems	Major	5	5	25	- Use battery operated equipment where possible. - Only intrinsically safe electrical equipment must be used within the confined space. - Ensure all electrical equipment is maintained regularly with Portable Appliance Testing etc. (Three Monthly Inspection) 110V equipment is to be used where possible. 240V equipment must be protected by a circuit breaker. All electrical equipment to be intrinsically safe.	5	1	5 (Low)
12	Noise	Moderate	3	3	9	- Ensure gas detector alarms are still audible or visible in areas where excessive noise is present - Review the Emergency procedures if noise levels are present e.g. determine a method of communication etc.. - Ensure noise levels are reduced to the lowest possible levels e.g. silencers etc on equipment, having all equipment properly maintained and serviced etc. - Ear protection must be worn when noise levels exceed dB(A)	3	1	3 (Low)
15,16	Opening/lifting of manhole covers	Major	5	5	25	- Make sure the correct steps are taken when opening the required manhole cover: - Ensure the area around the manhole cover is clear from debris, trip hazards and is adequately guarded. - Prior to using lifting keys, ensure key securing points are not damaged and are free from debris. - Use the correct approved lifting keys and check they fit securely before lifting cover. - When lifting follow the correct manual handling procedures. - Slightly lift the manhole cover and visually check to see if the grill is in place and not attached to the manhole cover. - If the safety grill is attached to the cover, seek assistance to detach grill and make it safe. Report to your supervisor as a near miss.	5	1	5 (Low)
16	Sewage	Major	4	4	16	- Control of laterals, sewage control and personnel hygiene toolbox talks etc must be briefed to operatives prior to work commencing. - Do not touch your face, smoke, eat or drink unless you have washed your hands and face thoroughly with soap and water, after coming into contact with sewage. - Change clothing before eating, drinking or smoking. - Ensure that any equipment used around sewage is cleaned thoroughly after use. - Adequate welfare facilities must be provided on site. For fixed sites, toilet, soaps, creams, warm and cold water must be supplied. For transient sites, vans must be fitted with wash basins, soaps, warm and cold water etc.	4	1	4 (Low)

16	Oxygen Deficiency / Toxic gases	Major	5	5	25	- Continuously monitor the confined space and ensure that all up and downstream manhole covers (if applicable) are open during the entry. - Air movers and forced ventilation must be used where appropriate. - Gas testing must be carried out prior to, and during entry. - The results of the gas tests must be recorded on your permit to work before entry. - As a minimum, a 3-headed gas monitor i.e. Hydrogen Sulphide, methane and oxygen must be used. - In the event of gas monitor warnings, all operatives must evacuate the confined space immediately. This should be reported to your supervisor immediately - Air movers and force ventilation must be used if appropriate i.e. where a build up of gas may occur in your area of work, and some work processes, use of substances etc. - In the event of an operative feeling unwell or detecting unusual odours, the operative must communicate this to the Top- man and arrange for evacuation immediately. In this instance, escape breathing apparatus is to be worn. - Dangerous symptoms may include feelings of dizziness, headache, pulsing at the temples, eye irritation, nausea etc.	5	1	5 (Low)
16	Explosive atmosphere	Major	5	5	25	- Continuously monitor the confined space and ensure that all up and downstream manhole covers (if applicable) are open during the entry. - Air movers and forced ventilation must be used where appropriate. - No smoking, no naked lights, no petrol and diesel engines are permitted within 2 meters of the opening.	5	1	5 (Low)
16	Hazardous substances	Moderate	3	3	9	- Examine work environment- obtain site history. - COSHH assessments must be adhered to, and site specific procedures for use of any hazardous substances must be developed. - Ensure that the atmosphere is continuously monitored	3	1	3 (Low)
16	Manual Handling	Moderate	3	4	12	- Ensure compliance with the generic Risk Assessment – Manual Handling - A specific assessment must be produced for all manually lifted loads of 25kg and over. - Never attempt to lift any load that you consider too heavy or awkward to lift on your own			
17	Environmental	Fatality	4	4	16	- Storage and disposal of all chemicals and substances must be carried out in line with the relevant COSHH assessment. - All re-fuelling operations must be carried out with the aid of a funnel and away from drains/watercourses - Ensure any spillages are cleaned up with your spill kit and reported to your supervisor			
20	Lateral connections	Major	5	5	25	- Ensure temporary bunding of walls upstream of the chamber - Upstream and entry chamber must be monitored and pumped out as required.	5	1	5 (Low)
22	Difficult access/egress to the confined space	Major	5	5	25	- Pipe/sewer access must be in accordance with the relevant permit to work and class of entry requirements. - Ensure that emergency procedures are re-assessed. - A site specific system of work is to be established taking into account an access assessment, including manual handling etc into the confined space.	5	1	5 (Low)

23, 25	Vehicle / Pedestrian Movement	Major	5	5	25	- Designated pedestrian and vehicle routes must be established - Only trained and authorised personnel are to operate plant. - All operatives are to wear high visibility clothing - Ensure that the work area is suitably signed and guarded in line with chapter 8 'Red Book' requirements. A working and safety zone is to be established. - Pedestrian access must be provided to include protection/elimination of any trip hazards - A Banksman must be used whilst moving equipment in public areas etc	5	1	5 (Low)
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<i>RISK RATING</i>	LOW RISK 1-5	MEDIUM RISK 6-12	HIGH RISK 13-25
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The area below can be used to expand/ indicate additional control measures according to specific risks presented according to location or task.

DYNAMIC ACTION PLAN TO REDUCE RISK				Action Approval		
Ref.	Action Required	Responsible	Completion Date	Review Date	Management Approval	
There are NO dynamic hazards to be considered and it is SAFE to proceed			I have added extra risk controls and the dynamic hazards are controlled and it is SAFE to proceed (As above)			

Review Timetable

Review No. 1		Review No. 2		Review No. 3		Review No. 4		Review No. 5	
Name		Name		Name		Name		Name	
Signature		Signature		Signature		Signature		Signature	
Due Date:		Due Date:		Due Date:		Due Date:		Due Date:	
Actual Date:		Actual Date		Actual Date		Actual Date		Actual Date	

Confirmation of agreement and understanding

I have read, understood and agree to work by the risk contained within this risk assessment.

I have been given the opportunity to ask questions and have had them satisfactorily answered.

[illegible]

Risk assessment Reference Number		RALS006	
Conducted by	Darren Webster, Director	Date	04/05/2022
Longacre Street		Manual Handling	
Method Statement number		MSLS006	
COSHH Number		N/A	

Likelihood: 1=Remote, 2 = Unlikely, 3= Likely 4= Very Likely 5= Extremely Likely

Severity 1= Insignificant 2= Minor 3= Moderate, 4= Major, 5= Fatality/Severe

Risk Rating = Likelihood x Severity

Hierarchy of control

11. Eliminate Hazard
12. Reduce Hazard
13. Prevent contact with Hazard
14. Form a Safe System of Work
15. Use Personal Protective Equipment

		Severity				
		1	2	3	4	5
Likelihood	1	1	2	3	4	5
	2	2	4	6	8	10
	3	3	6	9	12	15
	4	4	8	12	16	20
	5	5	10	15	20	25

Who is at risk:	Employees ☒	Young Person ☒	Site personnel ☒	Inexperienced Person ☒	Contractors ☒	Public ☒
What is the risk:	Property ☒	Environmental ☒	Personnel Injury ☒	Equipment ☒	Brand ☐	*

Describe the operation being performed:

- Confirm that the item needs to be moved rather than moving the work to the item.
- Check whether mechanical lifting equipment/handling aids can be used for the lift, pull or push of the object.
- Identify the distance that the object needs to be carried.
- Ensure that all routes are clear and free of trip hazards, obstacles etc.
- Ensure that you are aware of the resistance prior to the lift, push or pull.
- Check for markings of weight on the item.
- Move the item with your foot prior to the lift if you are unsure of the weight so that the resistance can be identified.
- Verify you are or are not capable of making the lift.
- PPE to be worn: Hard Hat, Safety Boots. Hi-Visibility Clothing, Gloves

Emergency Procedures Required

- First aid Kit and First Aid Personnel known whereabouts
- Site emergency procedures known

Hierarchy of use

- Use mechanical aids where possible
- Lighten the load
- Reduce the amount of distance to be carried
- Ensure travel route is clear and well lit

Mechanical Hazards			
1	Entanglement	☐	
2	Friction / Abrasion	☐	
3	Stabbing / Puncture	☐	
4	Drawing in / Trap	☐	
5	Ejection of Material	☐	
6	Impact	☒	
7	Cutting	☐	
8	Shear	☐	
9	High Pressure	☐	
10	Weather	☒	

Other Hazards			
11	Electricity	☐	
12	Noise	☐	
13	Slip / Trip	☒	
14	Vibration	☐	
15	Manual Handling	☒	
16	Substances	☐	
17	Lighting	☐	
18	Stability	☐	
19	Hot / Cold Surfaces	☐	
20	Controls	☐	
21	Deep Water	☐	
22	Ergonomic	☐	
23	Human Error	☐	
24	Falls from Height	☐	
25	Collapse of excavation	☐	
26	Dust	☐	
27	Traffic	☐	
28	Contamination	☐	
29	Public/other trades	☐	
30	Buried services	☐	

Ref. (See above)	Type of Hazard	Possible Injury / Harm	Pre-controls			Controls	Post-controls		
			S	L	RR		S	L	RR
10	Environment	Moderate	3	3	9	- Travel route clear of obstructions. - Suitable lighting of area. - Ground conditions checked.	3	1	3 (Low)
13	Slip/Trip Hazards	Moderate	3	3	9	- Prior to lifting, ensure that all access/egress routes are clear and free from obstructions and trip hazards. Plan the route of transport before lifting commences so that any trip/slip hazards can be identified. - Ensure that sufficient lighting is available within the area in which the load is being moved.	3	1	3 (Low)
15	Manual Handling Task Load Individual Capability	Moderate	3	4	12	- Operative received suitable and sufficient manual handling training. - Materials offloaded as close as possible to required area. - Where possible, mechanical lifting/pulling aids utilised. - When manual handling is unavoidable, a good posture taken. - Team handling required for very heavy or large objects. - Appropriate gloves worn when carrying/lifting sharp items. - Good grip obtained before taking the full weight of a load. - Operatives who suffer from back problems shall not undertake any manual handling tasks. - Young persons never expected to lift beyond their physical capability.	3	1	3 (Low)

15	Poor Grip – Bulky items, difficult to grasp, sharp etc.	Moderate	3	3	9	- Before you lift, check the weight of the load, if you think the item(s) is too heavy or the task is unsafe, do not attempt to lift and consult with your supervisor. - Ensure that all sharp/rough edges are protected in order to prevent injury to hands and arms. - Ensure that you wear gloves to protect your hands from rough/sharp edges and abrasions when handling materials. - Ensure that you have sufficient room to lift/transport the load. - If at any time during the operation it is felt that item(s) is too heavy or task is unsafe, stop work and consult your supervisor.	3	1	3 (Low)
15	Poor Posture	Moderate	3	3	9	- Always adopt and use safe lifting techniques, as instructed in your manual handling training. - Place the feet apart, giving a stable and balanced base for lifting, keeping your back as straight as possible. - Always lift/lower with a straight back, using your legs (leg muscles are stronger than back or arm muscles) to raise/lower your body and the load. - Ensure that you have a good grip and that you stand with your feet apart with one foot slightly in front of the other. - Avoid extending the load above shoulder height – keep the load at waist height during transporting. - Try to avoid pulling actions where possible, and substitute for pushing actions.	3	1	3 (Low)
15	Heavy objects	Moderate	3	3	9	- Never attempt to lift any load that you consider awkward or too heavy to lift on your own or as a team. - If operatives are not physically capable of moving item(s), stop work and contact your supervisor. - The supervisor must arrange mechanical aid or increased number in working party or an alternative safe method of work. - Where possible, dismantle heavy objects prior to lifting into more manageable loads. - Where possible, use mechanical aids when lifting heavy loads of 25kg and above. If mechanical aids are not available, lift the load with more people. One person is to be nominated in charge of the lift.	3	1	3 (Low)
15	Loading Unloading vehicles	Moderate	3	3	9	Most injuries happen whilst lifting machinery/equipment off/on to vehicles. If possible this should be a two man operation, to minimize the chance of causing injury to back, legs, feet, arms, hands or torso.	3	1	3 (Low)

RISK RATING	LOW RISK 1-5	MEDIUM RISK 6-12	HIGH RISK 13-25
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The area below can be used to expand/ indicate additional control measures according to specific risks presented according to location or task.

DYNAMIC ACTION PLAN TO REDUCE RISK			Action Approval		
Ref.	Action Required	Responsible	Completion Date	Review Date	Management Approval
There are NO dynamic hazards to be considered and it is SAFE to proceed			I have added extra risk controls and the dynamic hazards are controlled and it is SAFE to proceed (As above)		

Review Timetable

[illegible]

Confirmation of agreement and understanding

I have read, understood and agree to work by the risk contained within this risk assessment.

I have been given the opportunity to ask questions and have had them satisfactorily answered.

[illegible]

Risk assessment Reference Number		RALS004		Likelihood: 1=Remote, 2 = Unlikely, 3= Likely 4= Very Likely 5= Extremely Likely																																														
Conducted by	Darren Webster, Director	Date	04/05/2022	Severity 1= Insignificant 2= Minor 3= Moderate, 4= Major, 5= Fatality/Severe																																														
Longacre Street		Working at Height		Risk Rating = Likelihood x Severity																																														
Method Statement number		RALS004		Hierarchy of control 16. Eliminate Hazard 17. Reduce Hazard 18. Prevent contact with Hazard 19. Form a Safe System of Work 20. Use Personal Protective Equipment																																														
COSHH Number		N/A		<table border="1"> <tr> <th colspan="2"></th> <th colspan="5">Severity</th> </tr> <tr> <th colspan="2"></th> <th>1</th> <th>2</th> <th>3</th> <th>4</th> <th>5</th> </tr> <tr> <th rowspan="5">Likelihood</th> <th>1</th> <td>1</td> <td>2</td> <td>3</td> <td>4</td> <td>5</td> </tr> <tr> <th>2</th> <td>2</td> <td>4</td> <td>6</td> <td>8</td> <td>10</td> </tr> <tr> <th>3</th> <td>3</td> <td>6</td> <td>9</td> <td>12</td> <td>15</td> </tr> <tr> <th>4</th> <td>4</td> <td>8</td> <td>12</td> <td>16</td> <td>20</td> </tr> <tr> <th>5</th> <td>5</td> <td>10</td> <td>15</td> <td>20</td> <td>25</td> </tr> </table>				Severity							1	2	3	4	5	Likelihood	1	1	2	3	4	5	2	2	4	6	8	10	3	3	6	9	12	15	4	4	8	12	16	20	5	5	10	15	20	25
		Severity																																																
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	4	4	8	12	16	20																																												
	5	5	10	15	20	25																																												

Who is at risk:	Employees ☒	Young Person ☒	Site personnel ☒	Inexperienced Person ☒	Contractors ☒	Public ☒
What is the risk:	Property ☒	Environmental ☒	Personnel Injury ☒	Equipment ☒	Brand ☐	*

<u>Describe the operation being performed:</u>	<u>Personnel Protective Equipment Required</u>
- Set up the site with signing and guarding to the requirements of the NRASWA and the SSRA - Ensure that the contents of the risk assessment below are taken into consideration - Brief out the contents of the SSRA to all team members prior to starting work - All leading edges are protected before commencing work - Comply with all other risk assessments that refer to the type of works being undertaken that entails working at height or risk of a fall into a sewer etc.	- Eye Protection - Hearing Protection - Protective Footwear - Hand Protection
<u>Emergency Procedures Required</u>	<u>Hierarchy of use</u>
- First aid Kit and First Aid Personnel known whereabouts - Site emergency procedures known	- All work to be done from ground level - Only trained competent operatives to carry out the work - Harness and fall arrest systems in place

Mechanical Hazards			
1	Entanglement	☐	6 Impact ☐
2	Friction / Abrasion	☐	7 Cutting ☐
3	Stabbing / Puncture	☐	8 Shear ☐
4	Drawing in / Trap	☐	9 High Pressure ☐
5	Ejection of Material	☒	10 Weather ☒

Other Hazards			
11	Electricity	☐	16 Substances ☐
12	Noise	☐	17 Lighting ☐
13	Slip / Trip	☐	18 Stability ☒
14	Vibration	☐	19 Hot / Cold Surfaces ☐
15	Manual Handling	☐	20 Controls ☐
21	Deep Water	☐	26 Dust ☐
22	Ergonomic	☐	27 Traffic ☐
23	Human Error	☐	28 Contamination ☐
24	Falls from Height	☒	29 Public/other trades ☐
25	Collapse of excavation	☐	30 Buried services ☐

Ref. (See above)	Type of Hazard	Possible Injury / Harm	Pre-controls			Controls	Post-controls		
			S	L	RR		S	L	RR
10	Weather conditions	Major	5	5	25	- All work at height to be monitored throughout process- to record items related to the weather, e.g. wind speeds, temperatures. - Works to stop immediately if weather conditions become a health and safety risk and the work process and controls reviewed. - Works to remain stopped until the environment become safe.	5	1	5 (Low)
18	Collapse of Structure/ Ground	Major	5	5	25	- All structures/ ground on which working at height has been created must be inspected prior to use and recorded. - Conditions must be re-inspected following any incident that may have interfered with the integrity. - Structures, platforms etc. are only to be used/ loaded for the purpose to which they were intended- the safe working load is not to be exceeded. - The structure, platform is to be constructed by trained, competent persons.	5	1	5 (Low)
20	Unsafe access to location	Major	5	5	25	- Safe means of access to the work location should be provided using ladders scaffolding, mobile elevated work platforms or mobile tower scaffolds. Ensure all ladders are tied and toed at the correct angle. - Where MEWP's are to be used, these are only to be operated by trained and competent personnel. All MEWP's are to be accompanied by inspection records and emergency rescue procedures. - The use of ladders is to be avoided where possible as a place of work as they are one of the industry's most abused piece of work equipment. The use of a ladder as a place of work shall be detailed in a method statement.	5	1	5 (Low)
24	Falls of persons	Major	5	5	25	- All work at height activities must be individually risk assessed and controls introduced - Only trained and authorised operatives are to work at height. - For all working at height- restricted access should be implemented and signage in place. - Safe access to the working environment should be established. - Edge protection must be in place and secured and inspected prior to any works commencing and/ or area being established and be suitable. - All ladders must be suitable and sufficient and tied.	5	1	5 (Low)

						- Scaffolding, guard rails, mobile elevated work platforms are only to be used and operated by trained competent persons. - No edge protection is to be removed or interfered with at any time- unless competent and authorised to do so. - In such cases a safety line or harness is to be worn and securely anchored. - For all work at height an emergency rescue plan should be in place and communicated - When riding within a MEWP, specific risk assessment completed and controls adhered to. - Loading and unloading wagons as far as practicable should be completed using a gantry. (See unloading wagons risk assessment). - Where required, fall protection bags are to be introduced as a final means of protection. - Note all equipment used as either a platform of aid for working at height should be inspected and recorded prior to use and a time period not exceeding seven days. Also after any incident or accident that may have effected its stability and integrity.			
20	Falling Materials / Equipment	Major	5	5	25	- For all work activities- an exclusion zone should be established below and fenced off were required. - Signage implemented indicating "men working overhead" to be placed around area. - Work areas are to be kept clear- ensuring good housekeeping. - Safe loading of platforms must be displayed and not exceeded. - Debris netting, brick guards etc. - means of controlling debris fall to be introduced.	5	1	5 (Low)
24	Personnel Falling into Sewers via Manholes	Major	5	5	25	- Proprietary methods of fall protection shall be considered in all situations to prevent any fall from height. Prescribed means of fall prevention i.e. handrails, barriers, gratings or any other means identified. - Fall arrest systems are not be considered as the only means of fall protection. They are a last resort and are to be used in conjunction with proprietary systems. - Systems to be used to prevent falls are to be regularly inspected to ensure they are suitable and sufficient. - Given the diverse range of activities undertaken in relation to work at height it is impossible to dictate a given protection solution. Operational staff are empowered to employ the most appropriate device/system for the activity being undertaken.	5	1	5 (Low)

RISK RATING	LOW RISK 1-5	MEDIUM RISK 6-12	HIGH RISK 13-25
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The area below can be used to expand/ indicate additional control measures according to specific risks presented according to location or task.

DYNAMIC ACTION PLAN TO REDUCE RISK				Action Approval	
Ref.	Action Required	Responsible	Completion Date	Review Date	Management Approval

There are NO dynamic hazards to be considered and it is SAFE to proceed		I have added extra risk controls and the dynamic hazards are controlled and it is SAFE to proceed (As above)	
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Review Timetable

Review No. 1		Review No. 2		Review No. 3		Review No. 4		Review No. 5	
Name		Name		Name		Name		Name	
Signature		Signature		Signature		Signature		Signature	
Due Date:		Due Date:		Due Date:		Due Date:		Due Date:	
Actual Date:		Actual Date		Actual Date		Actual Date		Actual Date	

Confirmation of agreement and understanding

I have read, understood and agree to work by the risk contained within this risk assessment.

I have been given the opportunity to ask questions and have had them satisfactorily answered.

[illegible]

POINT OF WORK RISK ASSESSMENT	
Client;	Date;
Time of commencement;	
Location and description of work;	
Any areas that are ticked in red or amber during the POA will/may need additional control measures applied. This should be completed on the reverse of this sheet and briefed to personnel prior to the task being undertaken.	
Method statements used to ensure a safe system of work.	



Location of Works	YES	NO	N/A	Hazards	YES	NO	N/A
Can the assessment be carried out safely with your vehicle and equipment?				Is there anything that has the potential to cause harm?			
Are there any overhead cables present at your location?				Will any of your equipment cause a hazard?			
Are there and underground services present at your location?				Are there any third parties that may cause you harm (contractors etc)?			
Have you been authorised to work at your by the person in charge?				Have all hazards been identified and the remaining risks controlled?			
Can the work area be secured to prevent unauthorised access?				Environment	Yes	No	N/A
Have you identified additional hazards at your work location?				Do you have spill kits available?			
People	Yes	No	N/A	Do you understand the spillage procedure?			
Are all the persons completing the task competent to do so?				Have you checked which type of drain you are working on?			
Will members of the public be affected by the works?				Have you checked where the drain outfalls are?			
Will any other third party (other contractors) be affected by your works?				Will the noise of the operations disturb anyone?			
Will the works affect any other persons during the works?				Will you need additional resources to protect the environment on site?			
Equipment	Yes	No	N/A	Confined space (if required).	Yes	No	N/A
Do you have the correct equipment to carry out the works in a safe manner?				Are there any requirements for entry into a chamber?			
Has the equipment been test and inspected?				Do you have a tested and calibrated 10 minutes escape test?			
Are there any requirements for additional equipment?				Do you have a working, tested and calibrated gas monitor?			
Has all defective equipment been reported and removed from service?				Do you have an inspected and tested fall arrest block and tripod?			
Are there any requirements for specialist equipment?				Do you have a tested rescue harness?			
Do you have applicable and adequate PPE for the works?				Have you vented the manhole chamber?			
Safe System of Work	Yes	No	N/A	Have you carried out a gas test of the chamber?			
Do you have the applicable Safe Systems of Works at the works location?				Is there a requirement for a man rider system (no steps)?			
Have you and your team read and understood the contents of the SSOW?				Have you checked all the equipment and atmospheres prior to entry?			
Do you have the applicable method statements for the works?				Have you established communications and emergency processes?			
Do you have the utility drawings for underground services?				Can you work be carried out safely?			
Can you work be carried out in line with the method statements and SSOW?				Do you need more assistance to carry out the work safely?			

High risk = extremely likely to cause harm.
 Medium risk = less likely but more precautions will be needed.
 Low risk = unlikely injury or loss will occur.

Details of unsafe condition	Action taken	Approved by	Conditions safe	
			Yes	No

By signing below you are accepting that you will comply with the Safe Systems of Work and Method Statements that have been briefed.		
Authors Name:	Operatives Name:	Operatives Name:
Signature:	Signature:	Signature:
Operatives Name:	Operatives Name:	Operatives Name:
Signature	Signature:	Signature:

All personnel below have read this risk assessment and understand their role with respect to health and safety on this site and this contract.

[illegible]

Terms and Conditions

1 Definitions and interpretation

1.1 The following terms shall have the following meanings for the purposes of this agreement:

1.1.1 'Services' means those specified in the Contractor's Quotation or other documentation, subject to amendment.

1.1.2 'Contractor' means Layer Surveys Ltd.

1.1.3 'Employer' means the person, firm or Company for whom works are carried out.

1.1.4 'Engineer' means the person agreed by the Contractor and Employer or, failing agreement, nominated by the Contractor

1.2 Headings contained in this agreement are for reference purposes only and should not be incorporated into this agreement and shall not be deemed to be any indication of the meaning of the clauses to which they relate.

1.3 All agreements on the part of either of the parties which comprise more than one person or entity shall be joint and several and the neuter singular gender throughout this agreement shall include all genders and the plural and the successor in title to the parties.

1.4 Acceptance of the Contractor's Quotation, either by Employer's Official Order or by Letter of Intent is deemed as acceptance of these Terms and Conditions.

2 Appointment

The Employer appoints the Contractor to undertake the Services in return for the payments.

3 The Contractor's obligations

3.1 Delegation

Not to delegate any duties or obligations arising under this agreement otherwise than may be expressly permitted under its terms.

3.2 Notice

To comply with the terms of any Notice specifying a breach of the provisions of this agreement and requiring the breach to be remedied so far as it may be but nothing in this clause is intended to require the Employer to serve notice of any breach before taking action in respect of it.

4 The Employer's obligations

4.1 In consideration of the services to be rendered by the Contractor under this agreement the Employer agrees to make the Payments promptly without demand deduction or set-off.

4.2 Payment of the Price and VAT shall be due within 30 days of the date of the invoice. Time for payment shall be of the essence. Interest on overdue invoices shall accrue from the date when payment becomes due from day to day until the date of payment at a rate of 8% above the Bank of England Base Rate from time to time in force and shall accrue at such a rate after as well as before any judgment. In the event that the Employer is acting in the course of a business, the Contractor reserves the right to claim compensation for late payment pursuant to the Late Payment of Commercial Debts (Interest) Act 1998.

4.3 In the case where this quotation is accepted on behalf of a third party, all responsibilities of payment under the terms herein remain with the party issuing the original instruction.

4.4 The Employer shall make available to the Contractor the whole of the site of the proposed works at the commencement on site unless otherwise agreed in writing.

5 Cancellation

Prior to commencement of the works on site the Employer may cancel this agreement at any time by giving the Contractor one week's written notice, and shall then be liable to pay to the Contractor for all work undertaken and expenses incurred in preparing for the works. Upon commencement of the works on site the Employer may not cancel this agreement, save as set out in clause 8.

6 VAT

6.1 All sums payable under this agreement unless otherwise stated are exclusive of VAT and other duties or taxes.

6.2 Any VAT or other duties or taxes payable in respect of such sums shall be payable in addition to such sums.

7 Liability and Liquidated damages

7.1 The Contractor shall not be liable to the Employer for loss or damage to the Employer unless due to the negligence of the Contractor.

7.2 In the event that Contractor is held to be in breach of its obligations under this agreement, due to negligence, the parties agree that the Contractor shall pay to the Employer as and by way of agreed liquidated damages an amount equal to the price of the services provided by the Contractor up to the date of breach.

7.3 In the event that the Employer disputes the work undertaken by the Contractor, all disputes must be notified to the Contractor within 14 days of the work being carried, or within 14 days of the invoice, whichever is the later. The Employer shall be prohibited from disputing the work undertaken or the amount of the invoice after this 14 day period, save where the Employer is dealing as a consumer.

7.4 Save as expressly referred to above, and except where the Employer is dealing as a consumer (as defined in the Unfair Contract Terms Act 1977 Section 12 as amended and/or the Unfair Terms in Consumer Contracts Regulations 1999 Regulation 3(1)), all other warranties, conditions or terms relating to fitness for purpose, quality or condition of the Goods and/or Services, whether express or implied by statute or common law or otherwise are excluded to the fullest extent permitted by law.

7.5 For the sake of clarity, the Contractor will not be held liable for any consequential losses suffered by the Employer as a result of any breach of the Contractors obligations, whether reasonably foreseeable or otherwise. Contractor by a third party in respect of any matter caused by the Employer or for which liability has been assumed by the Employer.

7.6 The Employer shall indemnify defend and hold harmless the Contractor in full against all loss, costs, damages, charges, expenses and other liabilities awarded against or incurred as a result of or in connection with any claim made against the

8 Termination for breach

The following obligations are conditions of this agreement and any breach of them shall be deemed a fundamental breach which shall determine this agreement immediately and the rights and liabilities of the parties shall then be determined in accordance with clause 9:

8.1 Failure on the part of the Employer to make punctual payment of all sums due to the Contractor under the terms of this agreement;

8.2 Failure on the part of the Contractor to observe any obligation under this agreement not requiring Notice to be served and in the case of obligations requiring Notice to be served failure to comply with the terms of any Notice;

8.3 The levying of any distress or execution against the Employer or the making by him of any composition or arrangement with creditors or being a company the Client's liquidation (other than a members' voluntary liquidation with the written consent of the Client);

9 Termination consequences

In the event of this agreement being determined whether by effluxion of time Notice breach or otherwise:

9.1 The Employer shall immediately pay to the Contractor:

9.1.1 All arrears of Payments and any other sums due under the terms of this agreement and

9.1.2 All further sums which would but for the determination of this agreement have fallen due at the end of the works

9.2 Either party shall be entitled to exercise any one or more of the rights and remedies given to it under the terms of this agreement and the determination of this agreement shall not affect or prejudice such rights and remedies and each party shall be and remain liable to perform all outstanding liabilities under this agreement notwithstanding that the other may have exercised one or more of the rights and remedies against it; and

9.3 Any right or remedy to which either party is or may become entitled under this agreement or in consequence of the other's conduct may be enforced from time to time separately or concurrently with any right or remedy given by this agreement or now or afterwards provided for and arising by operation of law so that such rights and remedies are not exclusive of the other or others but are cumulative.

10 The Works

10.1 The works, unless otherwise notified, have been priced to be carried out between the hours of 08:00 and 16:30 unless agreed prior to commencement and allowed for and agreed in the Contractor's quotation. In the event that the Employer changes the hours within which the works are to be undertaken, the Employer shall be liable for the Contractor's additional costs.

10.2 In the event that working time is lost on site due to delays caused either by the actions of the Employer, his Representative or by other Contractors employed by the Employer, or by sewer surcharge caused by storm, flood, tidal or pump failure, the Employer shall be liable for the additional costs incurred by the Contractor. In addition, in the event that the Contractor experiences delays for which they are not responsible, the Employer shall be liable for the Contractor's additional costs in relation to the additional setting up or out of sequence working.

10.3 Unless otherwise stated in writing it is assumed that vehicular access is possible to all manholes on every sewer length on which work is being undertaken. In the event that this is not possible the Employer shall be liable for an extra costs incurred due to lack of access.

10.4 If access is required onto private land it will be the Employer's responsibility to ensure all relevant permissions have been obtained

11 Specific Works (to be read in conjunction with the above Conditions)

11.1 Cleaning

Removal of silt/debris in excess of 10%, or which requires additional equipment for the removal of fat deposits, grout, encrustation, concrete, builders rubble or roots will be charged additionally unless otherwise stated in writing.

11.2 CCTV/Sonar Inspection Works

Due to the nature of CCTV inspection, the Contractor cannot guarantee the accuracy of any CCTV inspection or measurement. A CCTV Survey will only show the interior of the sewer or pipe, and will not show the exterior. Alternatively Sonar may be used to track the route of a pipe, however Sonar by its nature may be up to 1 metre out in accuracy. Any interpretation and advice as a result of CCTV inspection shall not be binding on the Contractor, and is the sole responsibility of the Employer. In the event that the measurements or advice given is inaccurate, the Contractor shall not be responsible for any loss or damage howsoever caused.

11.3 Sewer Condition

Where information is provided or implied either verbally or in writing or through CCTV recordings concerning the condition of the sewers and this is found to be inaccurate or out of date the Employer shall be responsible for any extras costs incurred for additional work that may be required to complete the works. The Contractor shall not be liable for any deterioration, structural or otherwise, that develops or becomes apparent on any pipe they are working on howsoever caused.

11.4 Waste Disposal

Unless otherwise stated the Contractor has not quoted for the removal of waste or debris from site. If disposal is found to be necessary the Employer will be responsible for the additional costs incurred by the Contractor in the removal, transporting and disposal of waste to a registered site, together with additional administrative costs.

11.5 Re-lining

Due to the nature of relining there can be no delays once the linings have been impregnated. In the event that there are delays beyond the Contractor's control any linings impregnated may have to be discarded and new linings provided. Further the Employer warrants that the sewers or pipes will be free of live water prior to the works being undertaken by the Contractor. In the event that live water is present, the linings used by the Contractor will not function. The Employer will be liable for the additional costs incurred should new linings be required in any event.

11.6.1 The Contractor must rely upon Utility Company records as to the location of underground services before undertaking any excavation work. The Employer is placed on notice that the accuracy of the Utility Company records may be suspect; however the Contractor must rely upon them. In the event that the Utility Company Records are inaccurate and damage is caused to an underground service, the Employer will hold the Contractor fully indemnified in respect of any claim which may arise from such damage.

11.6.2 The Contractor may rely upon scans of the area before undertaking excavation. A scan will not identify an obstruction such as, but not limited to, concrete, bedrock or other such obstructions. Likewise a scan will not show whether a pipe is encased in concrete. In the event that the Contractor discovers such an obstruction the Employer shall be liable for any additional costs incurred.

11.6.3 In the event that a pipe being excavated is encased in concrete, further damage may be caused to pipework connect to the section being excavated, due to shockwaves travelling down the concrete. Such damage is unavoidable. The Employer will be liable for the additional costs incurred in repairing any pipework so damaged.

12. Damage or Loss to Equipment

If damage or loss is sustained to the Contractors equipment due to reasons beyond their control, or due to the condition of the pipe work or some other known or unknown risk, the Contractor reserves the right to charge for the costs in retrieving the Equipment, including the instruction of another contractor and/or the costs of replacing the Equipment. The Contractor also reserves the right to charge for loss of profits and down time whilst the items are recovered or replaced.

13. Miscellaneous

13.1 Warranty

Each of the parties warrants its power to enter into this agreement and has obtained all necessary approvals to do so.

13.2 Force majeure

In the event of national emergency, war, prohibitive governmental regulation or any other cause beyond the control of the parties ('force majeure event') the obligations of the parties shall be suspended for so long as the force majeure event renders performance of the agreement impossible and upon the occurrence of a force majeure event all money then due to the Contractor shall be paid immediately.

13.3 Severance

If any provision of this agreement is declared by any judicial or other competent authority to be void voidable illegal or otherwise unenforceable or indications to that effect are received by either of the parties from any competent authority the remaining provisions of this agreement shall remain in full force and effect unless the Contractor in the Contractor's discretion decides that the effect of such declaration is to defeat the original intention of the parties in which event the Contractor shall be entitled to terminate this agreement by 30 days' notice to the Client and the provisions of clause 10 shall apply accordingly.

13.4 Whole agreement

Each party acknowledges that this agreement contains the whole agreement between the parties and that it has not relied upon any oral or written representation made to it by the other or its employees or agents and has made its own independent investigations into all matters relevant to it.

13.5 Notices

All notices to be given under this agreement shall be in writing and shall either be delivered personally or sent by first class or airmail prepaid post or by telex, cable or facsimile transmission and shall be deemed duly served:

in the case of a notice delivered personally, at the time of delivery;

in the case of a notice sent inland by first class prepaid post, 2 clear business days after the date of dispatch;

in the case of a telex, cable or facsimile transmission, if sent during normal business hours then at the time of transmission and if sent outside normal business hours then on the next following business day provided (in each case) that a confirmatory copy is sent by first class prepaid post or by hand by the end of the next business day.

Each notice shall be addressed to the address of the party concerned set out in this agreement or to such other address as that party shall have previously notified to the sender.

13.6 Proper law and jurisdiction

This agreement shall be governed by and construed in accordance with the law of England and Wales and each party agrees to submit to the exclusive of the courts of England and Wales.

13.7 Waiver

The failure by either party to enforce at any time or for any period any one or more of the terms or conditions of this agreement shall not be a waiver of them or of the right at any time subsequently to enforce all terms and conditions of this agreement.

13.8 Third party rights

A person who is not a party to this agreement has no rights under the Contracts (Rights of Third Parties) Act 1999 to enforce any terms of this agreement.



LAYER SURVEYS LTD

SEE THE COMPLETE PICTURE

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