

<div>John Henry Group</div>	JHG Operations Method Statements	
	Reference Number: PRO-JHG-MS201	Version Number: 2
	Published Date: 24/08/2023	Next Review Date: 24/08/2024
	Document Owner: Head of Health & Safety	Approved By: HSEQ Director

F-JHG MS06: Directional Drilling

Scope of Works

Directional Drilling (underground moling) is a trenchless technique of installing an underground duct. This method is a specialist operation and must only be carried out by competent persons using drill rig with location and guidance system.

Note: A Site-Specific POWRA shall be completed prior to commencement of works. The particular hazards associated with this task are documented in the library of Risk Assessments.

Sequence of Works

- Park vehicle safely.
- Ensure that a HSEQ Manual is on site, together with a full job pack.
- Check and ensure that all relevant site access permits, safety cards and paperwork is available on site and correct before commencement of works.
- Check and ensure that all plant and machinery are in good working order, have up to date certification and the operators have the compliant and in date licenses
- Check that client and relevant persons are informed and agree commencement date
- Check that all required materials are available and on site when required.
- Ensure that Briefing and Toolbox talk documents are available.
- Ensure that the site has been booked in to upon attendance (site provider requirement, check job pack)
- Check site for potential hazards and note on POWRA. Rectify if possible. Mark danger area & inform crew regarding potential hazard.
- Place emergency equipment (fire extinguisher & first aid kit) in designated area.
- All existing underground utilities to be located using CAT, visual inspection & utility stats. Adhere to HSG47 at all times.
- Proposed line & depth to be agreed with local authority & client.
- Suitable launch & receive pits to be excavated.
- The drilling machine will be located in line with the proposed route. A pilot hole will be drilled over each section of the bore length ensuring adequate cover beneath the footway or carriageway.
- The position of the drill head is monitored by the operator from the surface, with tracking taking place remotely on the surface.
- The position of the pilot drill is determined at regular intervals with the drill operator effecting steering adjustments as required.
- When the pilot drill reaches the target/exit position the drill head is removed and replaced with an enlarging reamer.
- The duct is securely attached via a swivel device to the reamer.
- The direction of operation is reversed with the reamer being pulled through the pilot bore enlarging it as it progresses. The duct mouth is progressively pulled behind.
- When the reamer and pipe arrive at the start position these are removed.
- The operation is now complete, and all drilling equipment is removed from site.
- Should progress not be possible the bore is abandoned, and alternative routes are selected until a successful bore is complete or the job abandoned.
- Tidy the site, removing all rubbish. Ensure the site is left in a safe and secure condition.
- Remove signing & guarding.
- Log out/call Third Party Site Provider/Client when works are complete.

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Plant & Equipment and Certification Required

Drilling machine, hand tools, CAT.

All plant & Equipment must be serviced, and/or calibrated to the requirement of legislation and the manufacture.
Any electrical tools required will all be 110v in line with the current regulations.

Staff Involved and Certification Required

Only trained, competent authorised personnel shall be permitted to carry out works. All Construction workers must have the required basic legislative health and safety training and Manual Handling Training:

Each crew collectively should have a combined training of:

- Sign, lighting and guarding,
- 1st aid training
- Street works Course
- Avoidance of Under Ground Services

Access and Egress Points

Only permitted access/egress points will be used

Interface with Public

All required third party notification will be addressed by the Site Supervisor.

Working hours

Normal Working Hours will be 08.00-17.00. Where an emergency Call out is required the working hours may be altered to suit the Client requirements to be agreed by JHG Supervisor.