

PIPE RAM FOR HDD CASING

JUNE 2019

► 2 x Large diameter casing pipes installed using Pipe Ramming

Scope

AMS were contracted to install 5 x 180mm ducts by way of directional drilling. In order to achieve the installation and due to 7m of overlying cobbles, boulders and rock, casing pipes were installed to support the unstable strata and to ensure the successful completion of the main HDD works by way of pipe ramming at entry and exit.

Pipe Ramming was chosen to install the casings to remove the need for 7m deep excavations within unstable ground formations. This installation was the first time the pipe rammer had been utilised to ram casing pipes at an angle, rather than in a straight line.

Project Details

The pipe ramming involved the installation of 1nr 610mm (30m length) and 1nr 1000mm (36m length) casing pipes through 7m of gravel, cobbles and boulders. Both pipes were successfully installed and cleaned out to enable the associated HDD works to be completed.

Technical Summary

- Bedrock overlaid with Grey Wacke cobbles, boulders and gravels to 7m depth
- 1 x 610mm casing installed for length of 30m
- 1 x 1000mm casing installed for a length of 36m
- Both casing pipes successfully cleaned out.
- Associated HDD works completed successfully.

Pipe Ram Installation



Casing pipe in place



Ramming in progress



Casing pipe installed