



Disruption caused by Typical Trenched Installation



Minimal Disruption being caused Pipe Bursting on Elmwood Avenue, Belfast



In a recent addition to the trenchless services that we provide we now offer a rock boring service for the installation of services in rock where traditional installation techniques would be inappropriate due to inaccessibility, vibrations or service congestion.



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*Trenchless
Installation
Techniques*

*'No-one will go to greater depths
to ensure Client Satisfaction'*

Tel: (028) 90 64 84 84

Trenchless Installation Techniques

Company Background

With over 27 years of experience in the civil engineering sector Rodgers Contracts (Ballynahinch) Ltd., provide a reliable, efficient, value for money service without compromising on quality. Our experienced and highly trained teams ensure an excellent level of workmanship with emphasis on client satisfaction.

Due to the recent additions to the company, namely our Safety Barrier and Surface Dressing Divisions we offer a versatility second to none.

Accreditations such as 'Investors in People', ISO 9001:2000 and 'SafeT Cert' ensure a first rate end product is guaranteed.

Why Use Trenchless Technology?

- Less disruption to the customer / environment - streets, gardens etc need not be disturbed
- Renewal of existing pipelines can be carried out with greater ease
- Pipelines can be installed under frozen ground in cold weather
- Pipeline installation workers have a safer working environment
- Going deeper to avoid existing services need not create an extra cost
- Road / River crossing can be carried out with minimal disruption to the user
- Cost Savings incurred when compared to open cut - no spoil, no fill, less security fencing and less resurfacing

Why Use Rodgers Contracts ?

- Experience in Trenchless installation since the late 1990's
- Operating throughout Ireland, both North and South (expansive operational capabilities)
- First Class reputation for meeting the needs of both Domestic and Industrial Clients in a timely and cost effective manner
- Our highly trained operatives take immense pride and care in their work
- Use and knowledge of cutting edge equipment

Horizontal Directional Drilling (HDD)

Ideal for the underground installation of gas, electric, water, telecommunications or soil remediation lines - without excavation or trenching.

HDD uses a removable drill head which is matched to the soil conditions by the operator, a series of drill stems then push and rotate the head. Once the pilot bore is complete, a reamer / back reamer is attached



to the drill string and pulled back, enlarging the bore wall to comfortably accommodate the product conduit or pipe that is subsequently pulled into place.

HDD is fully steerable and our new 'eclipse' system provides a greater degree of accuracy than the conventional 'digitrak' system.

Typical installation rates of up to 200m per day are achievable (depending on pipe diameter and ground conditions).

Pipes, ducts or cables of up to 1200 mm diameter can be installed using this method in lengths up to 300m.

Static Bursting (Rod System)

Is a method of on-line replacement of fractured pipelines usually from excavations 10-200m apart. The hydraulic burster is positioned in the excavation and the rods individually connected and pushed into the old pipe. Once inserted to the launch pit the bursting tooling is screwed onto the rods and the new pipe connected via a towing head to the rear.

Switched into reverse the hydraulic burster pulls back the rods, bursting head and new pipe. Each rod is unscrewed and removed, on reaching the hydraulic burster the tooling is disconnected from the new pipe and removed.

Insertion of short lengths may be made from pits but this involves jointing of the pipeline within the pit. This can be avoided by the use of silt trenches to insert pipe strings. Upsizing from 100mm to 225mm diameter is now well established and pipes of up to 600mm diameter and greater have been replaced.



The pipe to be replaced is exposed and cut out at two points, typically 100-120m apart in gas / water / sewer / ducting applications and 5 - 50m in manhole entry applications.

Pipe-splitting is similar in technique to pipe-bursting but is used on non-fragmental pipes such as steel, ductile iron and polyethylene. The technique is generally the same but instead of utilising conical burst head and blade formats, the systems use specialist splitting heads designed to cut through the pipe wall and joints and expand the pipe into the surrounding ground.

*For further information or a quotation please contact
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