SEWER REPLACEMENT IN SHALLOW TRENCH

PROJECT
Sewer Replacement in Shallow Trench

MAIN CONTRACTOR
R & M Utility and Civil Engineering Services

KEY BENEFIT
MGF GRiPSHORE range was used over traditional shoring methods

INTRODUCTION

R&M were contracted by Balfour Beatty to replace a 140m sewer run in Exmouth, Devon. The works required a full road closure and the route was highly congested with services.

R&M were having difficulty identifying a shoring solution that could provide a safe working environment for operatives needing to enter the excavation. Traditional shoring methods were deemed inappropriate as they were not flexible enough to work around the multitude of crossing services.

THE SOLUTION

The 140m long scheme was divided into sections, the first being the excavation of a 2m deep, 1.1m wide trench in the most congested section. MGF provided 20 sets of 500mm GRP Vertishore rails from the GRiPSHORE range along with hydraulic struts, bucket pump and required ancillaries together with a variety of larger boards and walers.

Operatives were able to reduce safety risk without compromising cost or time by using the GRP Vertishore rails. The lightweight shoring enabled them to progress the works safely where a traditional shoring system would have further congested the working area.

THE VERDICT

Through the lightweight nature of the GRP components, operatives sped up the install process by handling and installing them manually without reliance on an excavator.

They optimised the working space in which to thread the 600mm diameter plastic pipe which enabled them to focus on the sewer replacements works, reducing the time the road was closed causing less disruption to the public.