

Technical knowledge is central for Stourport

Who:
Tesco PLC

Main contractor:
Bowmer & Kirkland

Where:
Stourport supermarket & road system

Civil engineers:
McPhillips (Wellington) Limited

What:
Bolted plate culverts



Project details

Background to specification:

Stourport has seen a major transformation with the go-ahead to build a new Tesco supermarket, car park and petrol station on Severn Road and a mixed-use development on the southern part of the same site.

After six months' planning by main contractor Bowmer & Kirkland, the project began with an important planning condition required by Worcestershire County Council - an A278 scheme to upgrade the local roads infrastructure.

Cue civil engineers McPhillips, infrastructure specialists, who have assisted Bowmer & Kirkland on this and other types of past projects and have particular knowledge of what would be required.

Key criteria:

"One of the main issues we faced was installing four arch culverts each 14 meters in length for which a particular manufacturer had been specified, but Tubosider's technical knowledge and design expertise provided us with an ideal bolted plate solution," says McPhillip's Andrew Dunham.

"Besides their directness regarding the technical issues involved in the project and the excellent guidance they provided, including on-site advice on installing the prefabricated sections, their alternative proposals and final tender were most valuable, reducing the anticipated cost."

Solution & benefits:

Arch culverts are normally cast into a structure section by section, but Andrew Dunham foresaw problems and the need to solve the tie-in details. WCR approval was therefore sought and given for assembling the arches outside the structure and trimming them to length.

A 350 tonne crane was then used to lift the four assembled culverts into the causeway between two new RC walls. McPhillips then saw the culvert ends finished in reinforced concrete and fitted with a plastic former to give such an aesthetic look to a working structure.

"Everything from start to finish has gone well, even down to the promptness of delivery - it's been a highly successful solution, as we've come to expect from working with Tubosider in the past," says Andrew Dunham."

Tubosider United Kingdom Ltd
10 Sutton Fold Industrial Estate,
Off Lancots Lane,
Sutton.
St Helens. WA9 3GL

Supporting you from the ground up.

Call us: 01744 452 900
Email us: info@tubosider.co.uk
Visit us: www.tubosider.co.uk