



ENGINEERED GRP ACCESS

Anglian Water Southend GRP Outfall Chamber Cover

A surveyed, engineered and installed GRP frame-and-floor system replacing a badly corroded steel chamber cover.

SECTOR

Water and wastewater

LOCATION

Stock Road, Southend-on-Sea

SYSTEM

Solid-top chamber cover and access system

CLIENT

M&C; Engineering for Anglian Water

01 THE CHALLENGE

Replace a failed steel cover and close the exposed chamber.

The existing steel cover had suffered significant corrosion and damage and had been removed, leaving the outfall chamber exposed. The replacement needed to span both circular and square openings while preserving safe inspection and full access points.

Vital GRP surveyed the chamber and developed a complete GRP frame and solid-top flooring arrangement. The approved scope incorporated three inspection hatches, one larger access hatch and a GRP ladder approximately 1.7 m long.

02 THE SPECIFICATION

The product features that helped.



GRP support framework and chamber interface during the Southend works.

Engineered support

A 200 mm GRP channel framework, support legs and angle brackets formed the supporting structure.

Controlled access

Three inspection hatches and one principal access hatch retained the operational access required by the site.

Corrosion resistance

Solid-top GRP panels and A4 stainless-steel fixings created a durable alternative to the removed steel cover.

03 DELIVERY

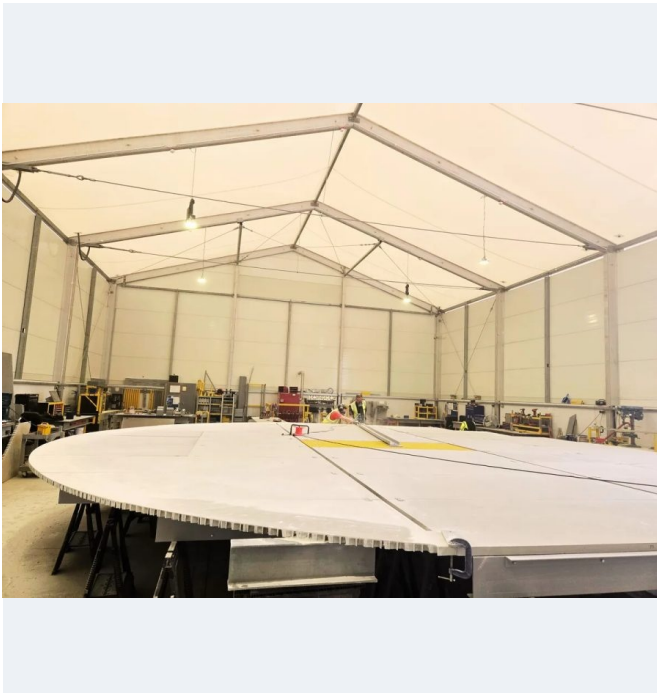
Survey, detailed design, in-house fabrication and site installation.

Following approval, fabrication drawings and structural calculations were coordinated before the frame was cut and assembled in-house. Prefabrication reduced work inside the chamber and supported an efficient installation sequence. The completed installation was recorded ahead of schedule.

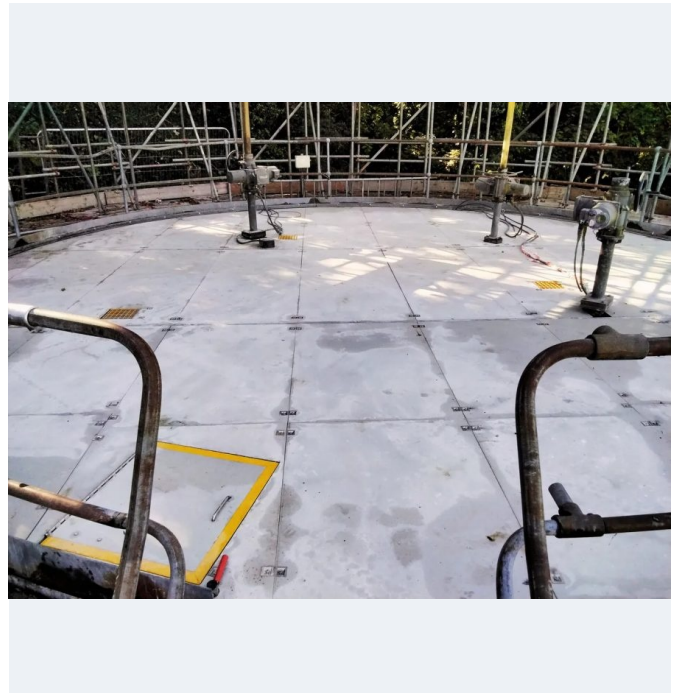
04 THE OUTCOME

What the project delivered.

The exposed outfall chamber received a complete, corrosion-resistant cover system with defined inspection points, full access and a clean installed finish.



Fabricated solid-top GRP chamber-cover panels prepared off site.



Installed Southend chamber cover with controlled access points.

Project information and assurance

Standards and assurance: Project-specific structural calculations, approved fabrication drawings and A4 stainless-steel fixings.



YOUR NEXT PROJECT

Does your chamber cover need replacing?

Send the opening dimensions, photographs, access needs and loading requirements. We can help coordinate the framework, panels, hatches and fixings.

Discuss a chamber-cover upgrade

Explore the system and its application

All projects

Sector expertise

All products and systems

Trench and chamber covers

Solid-top grating

Grating fixings