

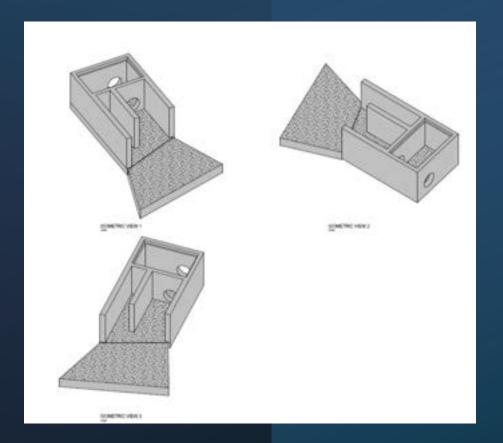
SCUNTHORPE YADDLETHORPE STW FE OUTFALL CONSTRUCTION



Project Brief:

The construction of an 80m2 by 3m high reinforced concrete outfall structure to facilitate the discharge of processed water delivered through 3.7km of 900 DI pipework from Yaddlethorpe Sewage Treatment Works

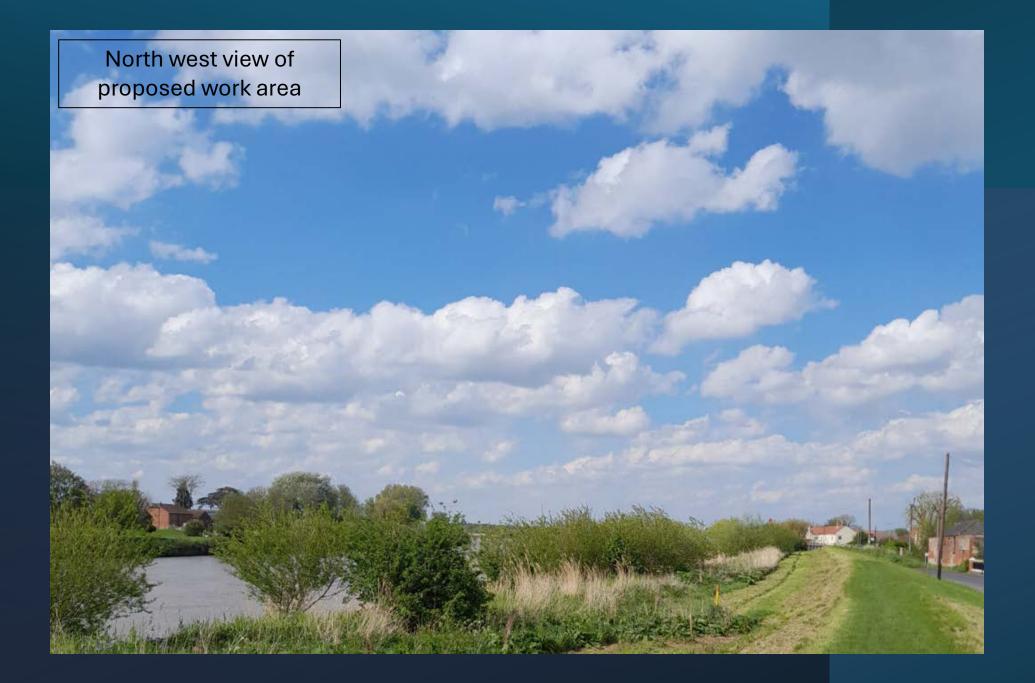




Construction specifics:

- Construction of 600m2 piling platform spanning onto existing East Butterwick High Street for a period of 6 weeks
- Installation of 140 Nr sheet piles ranging from 17m to 9m in length to form the temporary flood defence, structure cofferdam and structural support for the base and walls
- Removal of circa 250m3 of existing flood defence bund and river embankment to form temporary working platforms and provide access for the construction of the structure
- Installation of 9 tonnes of reinforcement
- Placement of 144m3 of ready mixed concrete
- Construction of 2.5m deep in-situ concrete manhole chamber (MH1) for the pipework connection from Yaddlethorpe STW and the outfall
- Installation of concrete bed and surround 900mm dia ductile iron pipework linking the outfall to MH1 on the east side of butterwick high street
- Installation of various metal works from access stairs to security grilles to handrailing
- Cut down and removal of circa 19 tonnes of redundant sheet piles
- Removal of temporary working platform and reinstatement of circa 40m length of flood bund and embankment
- Reseed circa 700m2 of flood bund and embankment

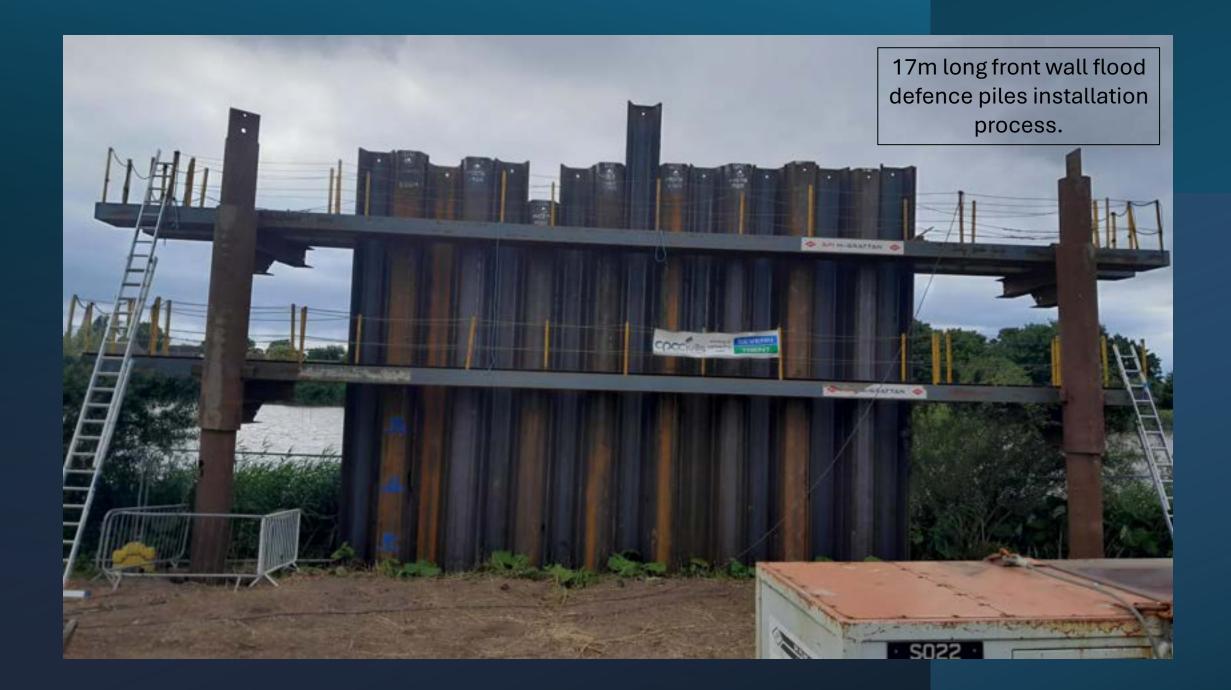


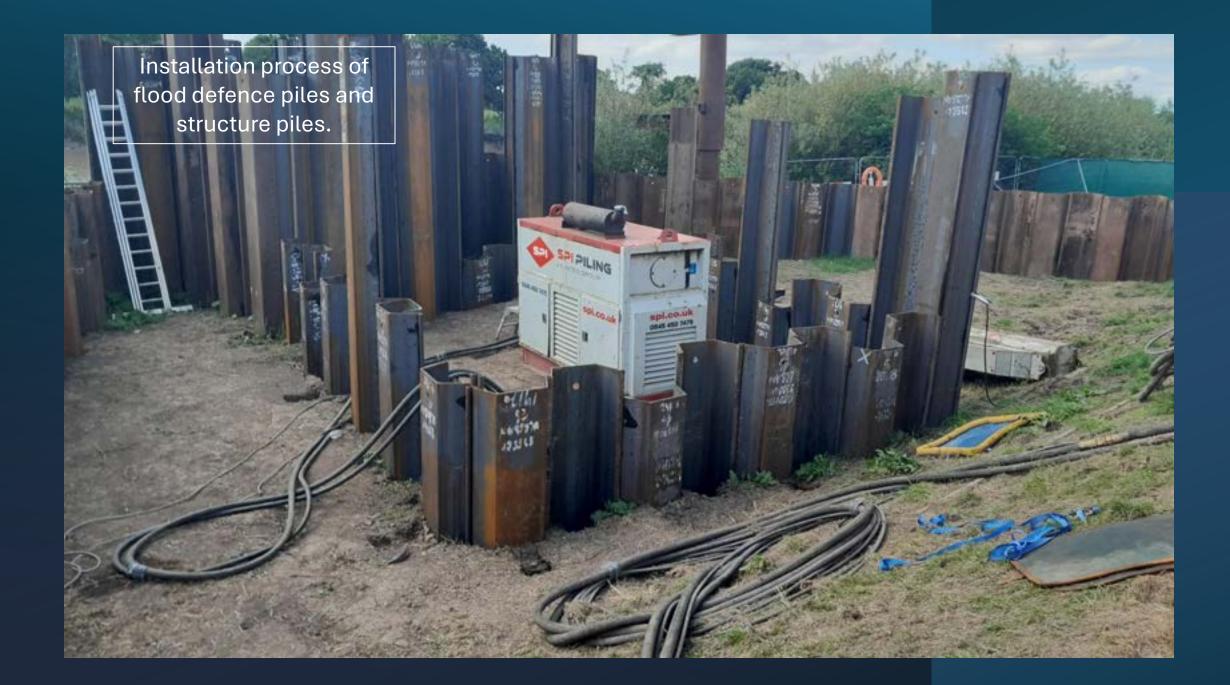






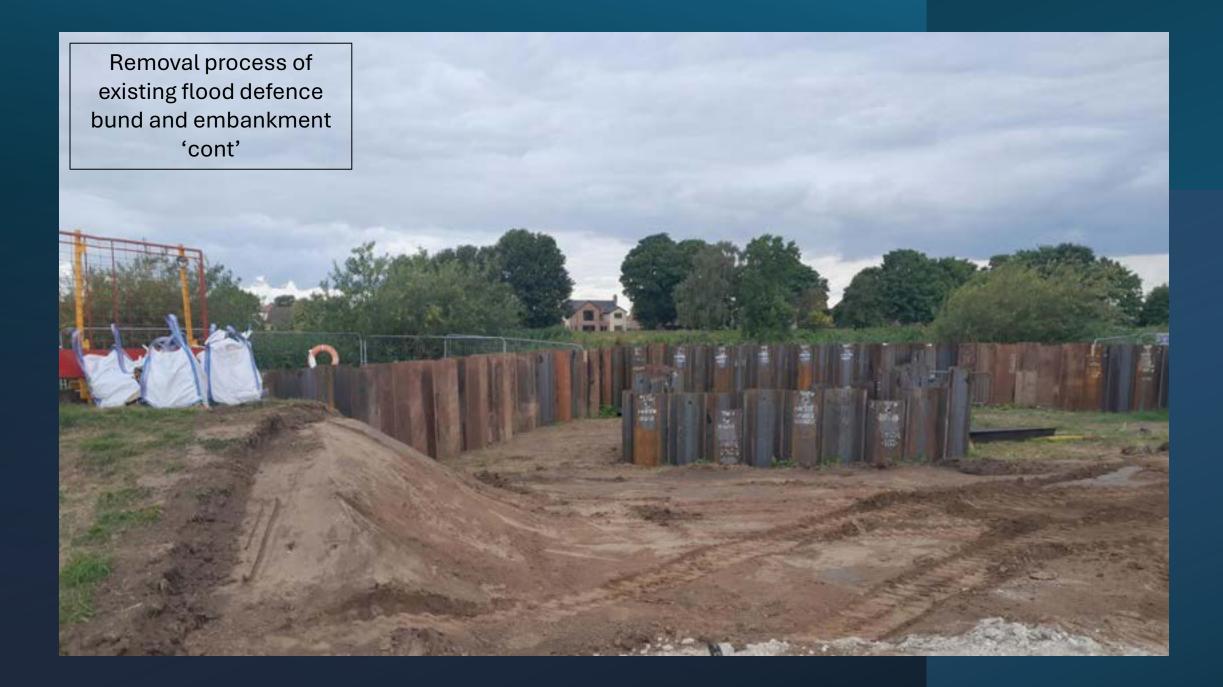




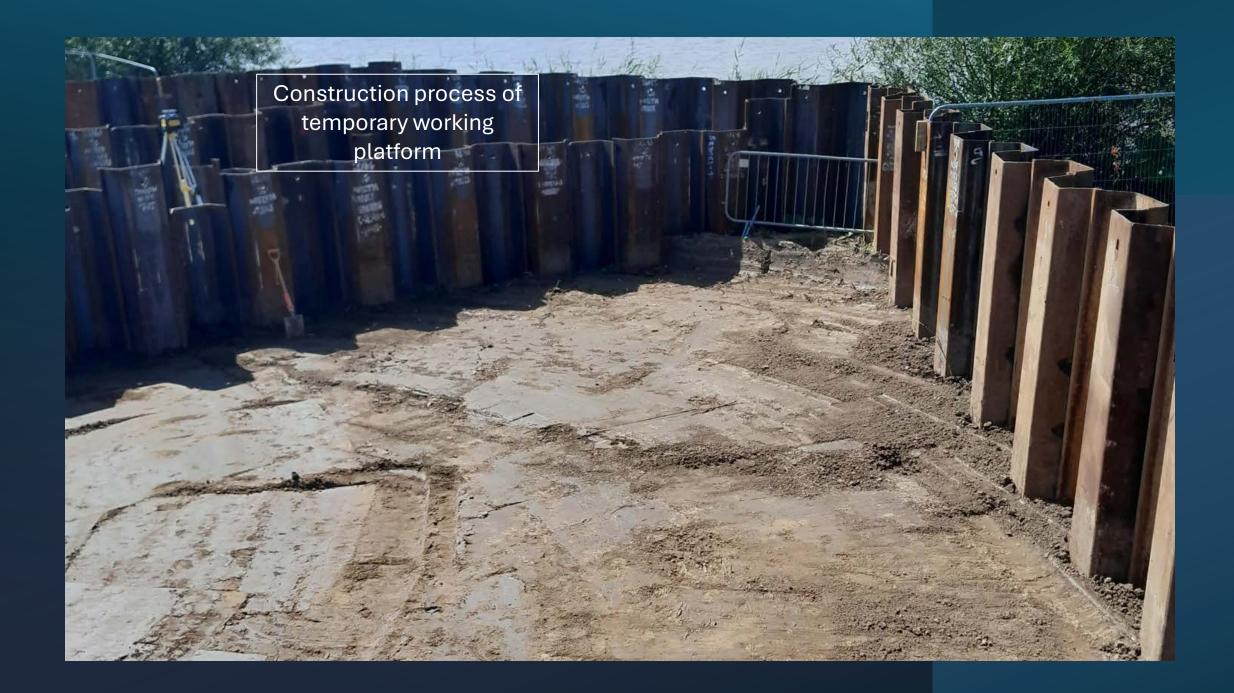


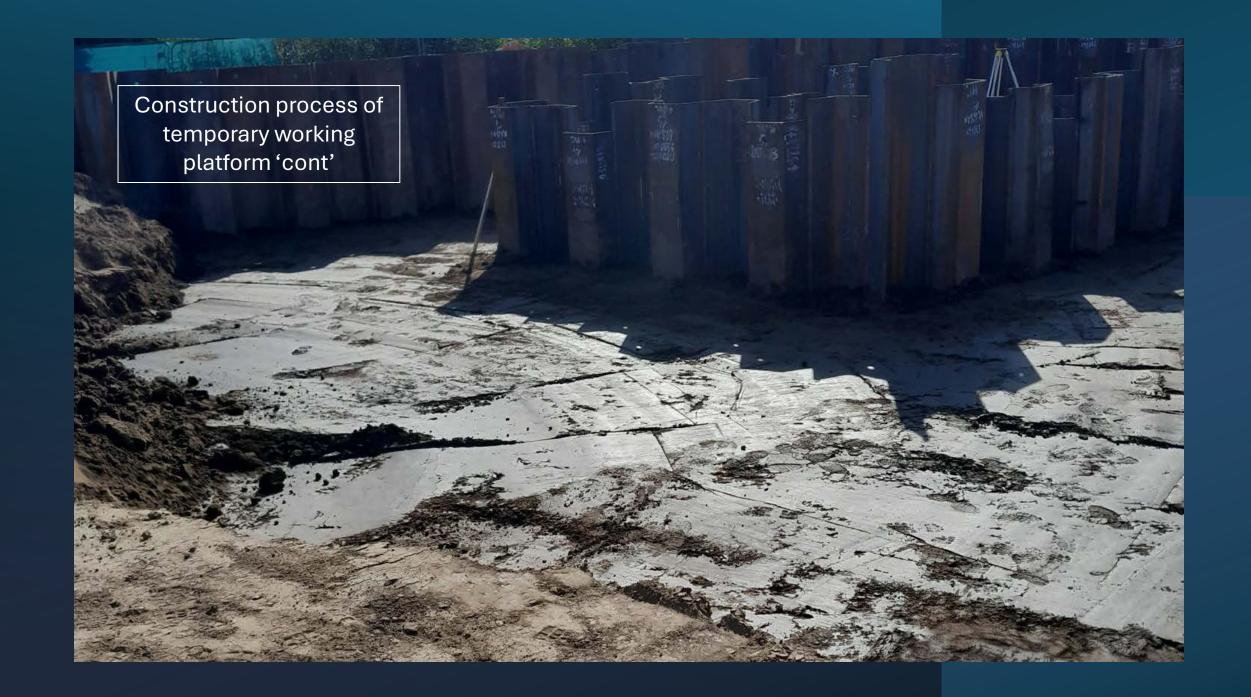








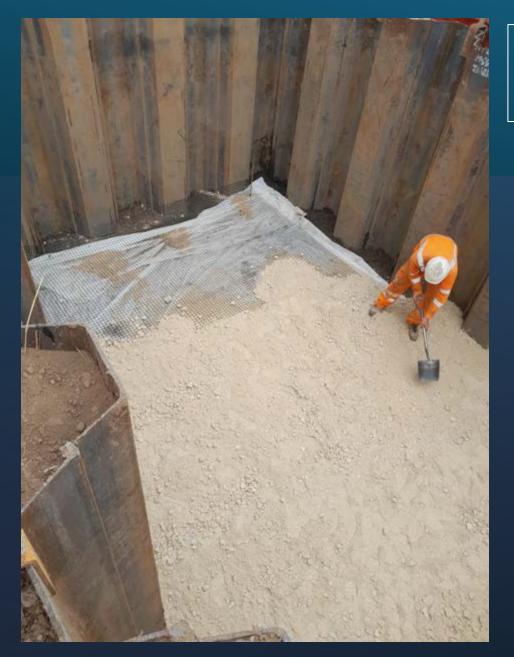




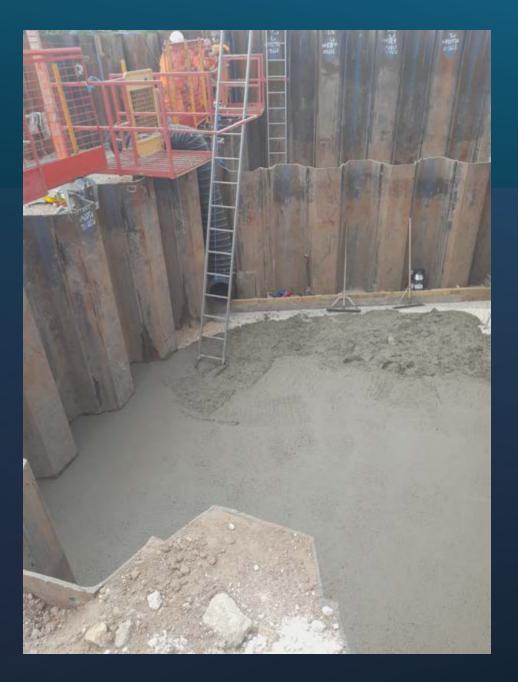


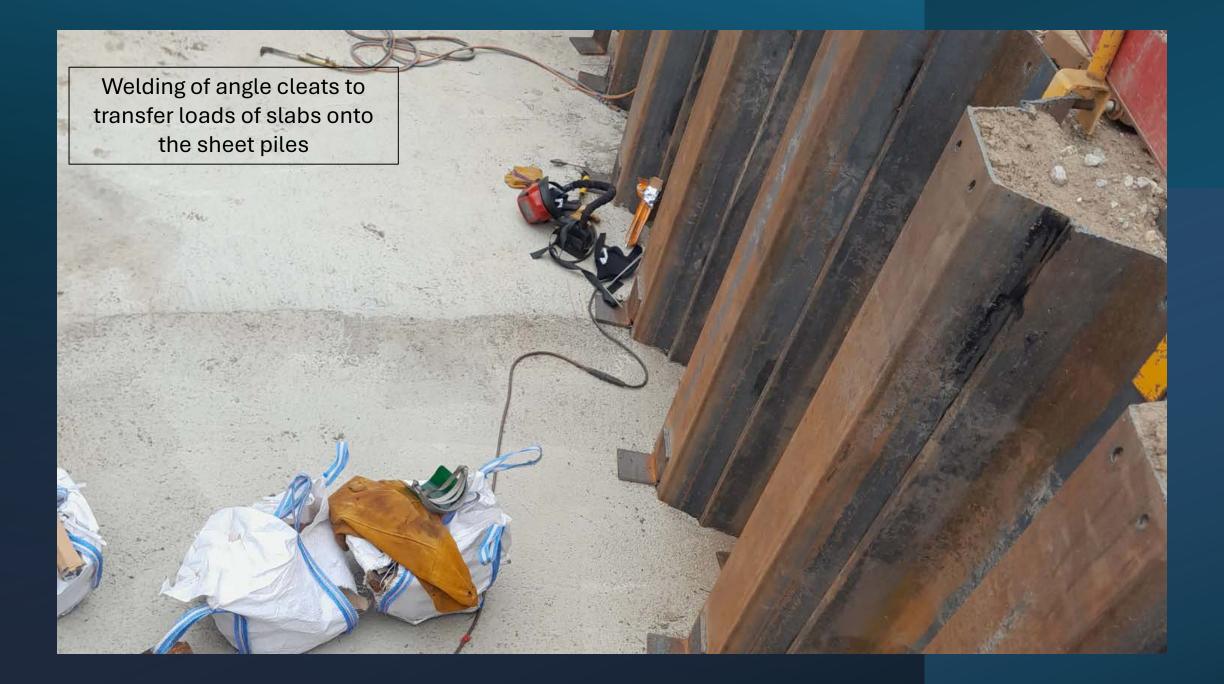


Installation and compaction of type 1 sub-base (110V equipment to mitigate fumes)

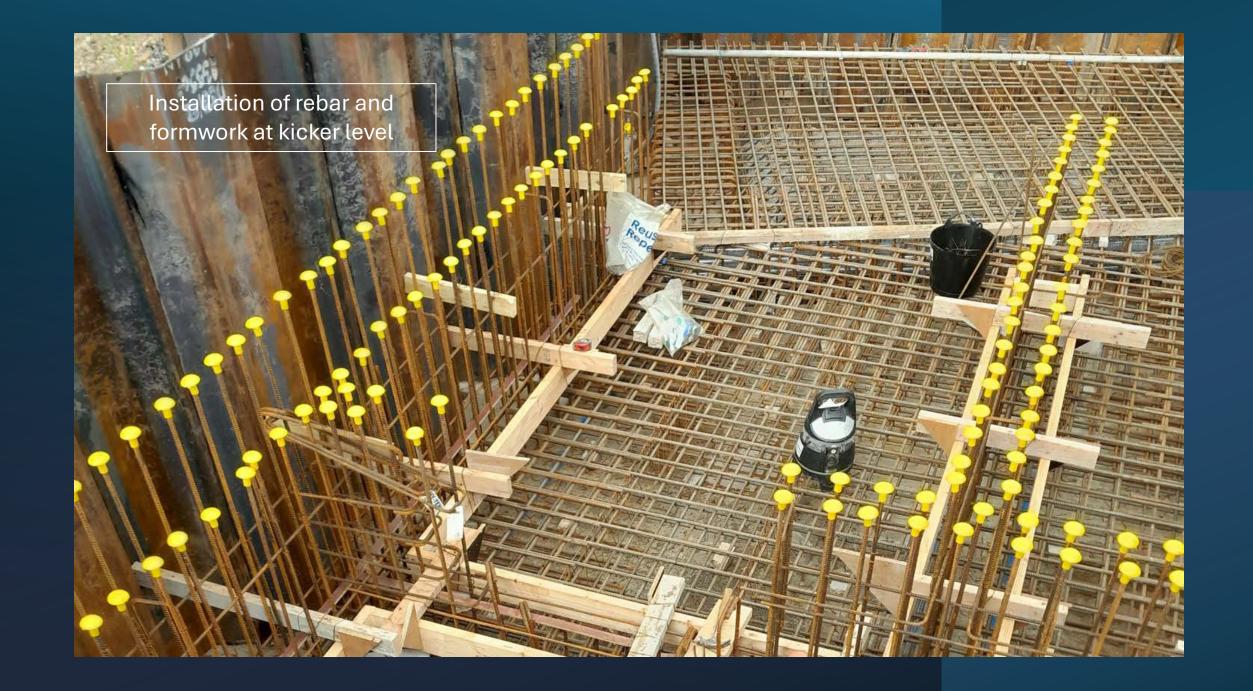


Installation and compaction of type 1 sub-base (110V equipment to mitigate fumes) Installation of 150mm thick concrete blinding for RC slab









Installation of rebar and formwork at kicker level 'cont'



Placement of ready mixed concrete for 750mm thick RC apron slab



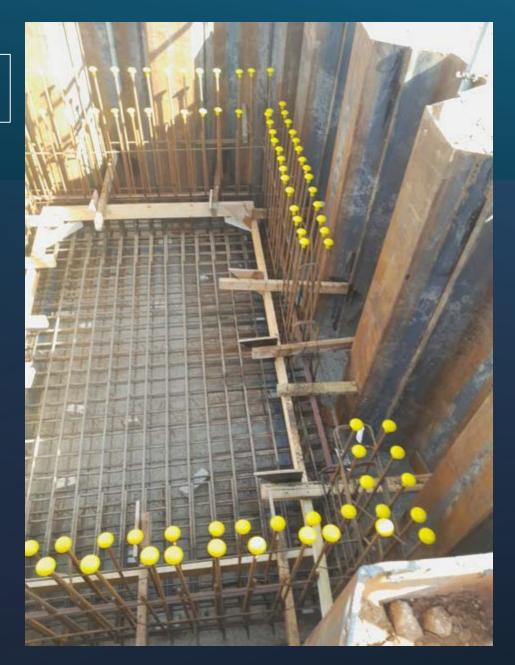
Completed 750mm thick RC apron slab



Completed apron slab and preparation work on valve chamber and outlet chamber slab at 450mm thick

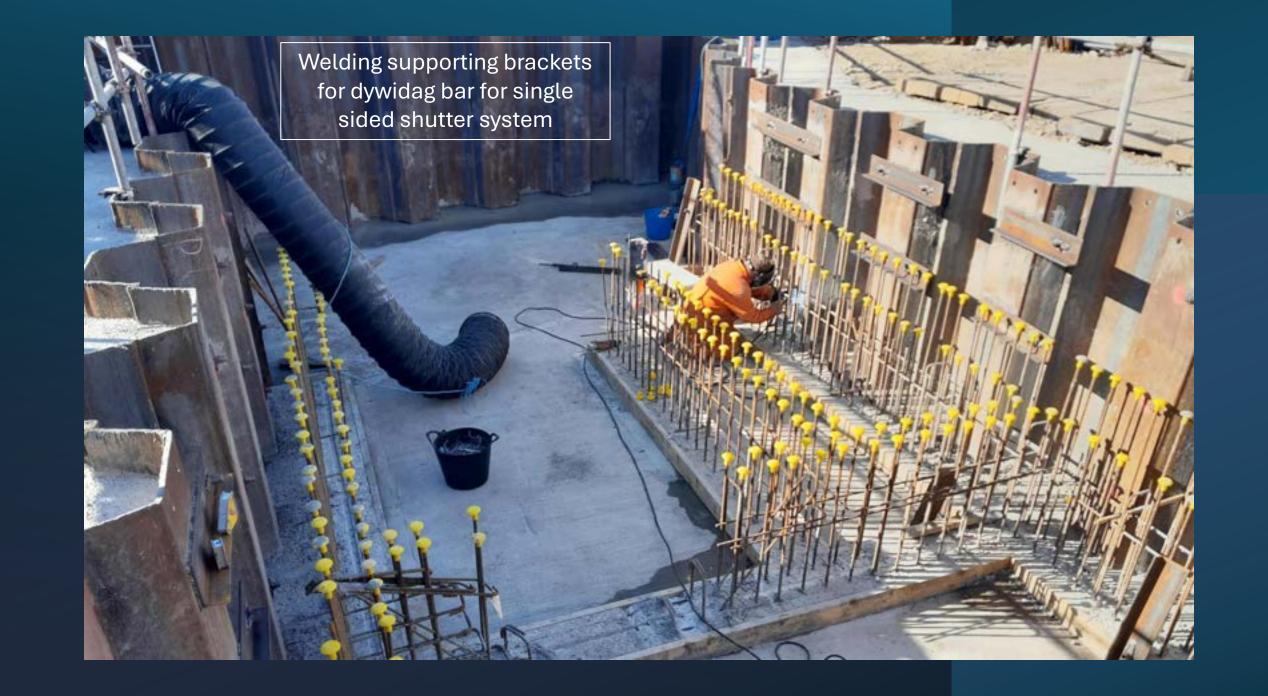


Rebar and formwork at kicker level for valve chamber slab

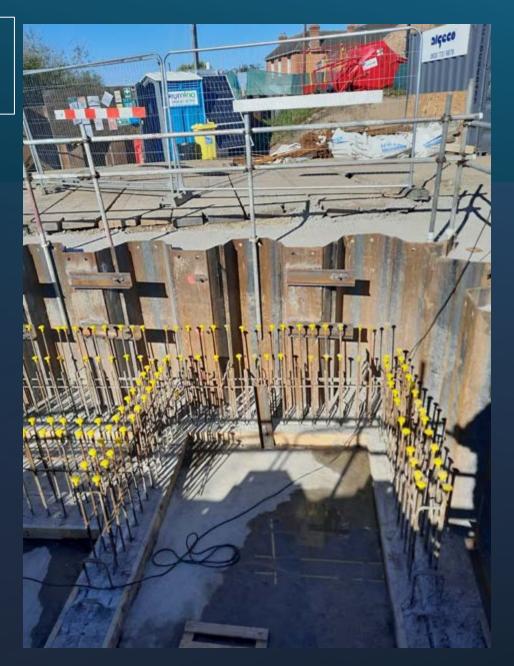


Placement of ready mixed concrete for 450mm thick RC valve and outlet chamber slab





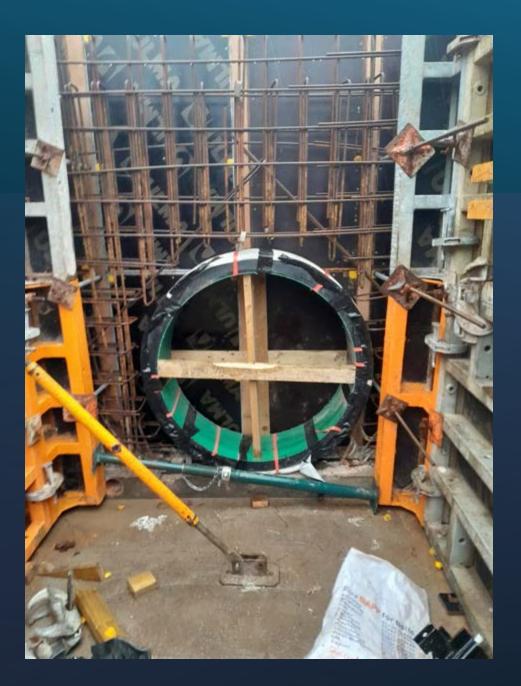
Welding supporting brackets for dywidag bar for single sided shutter system 'cont'

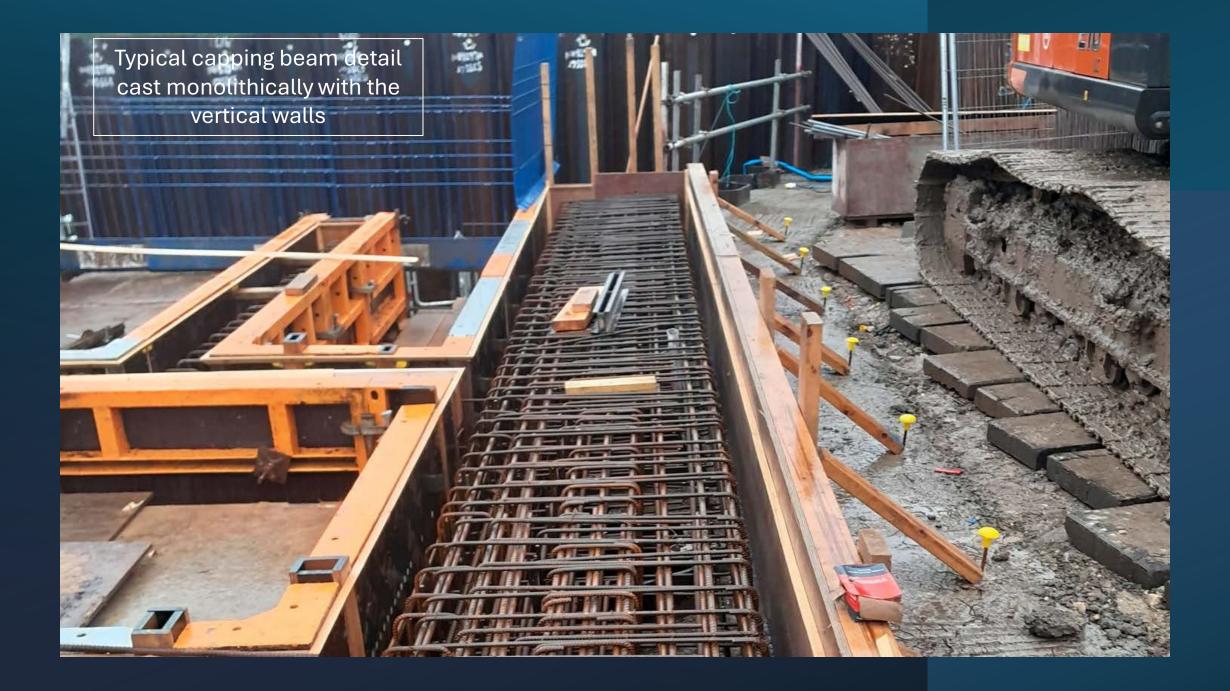


Welding supporting brackets for dywidag bar for single sided shutter system 'cont' 9.00

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Void former for 900 diameter pipe penetration

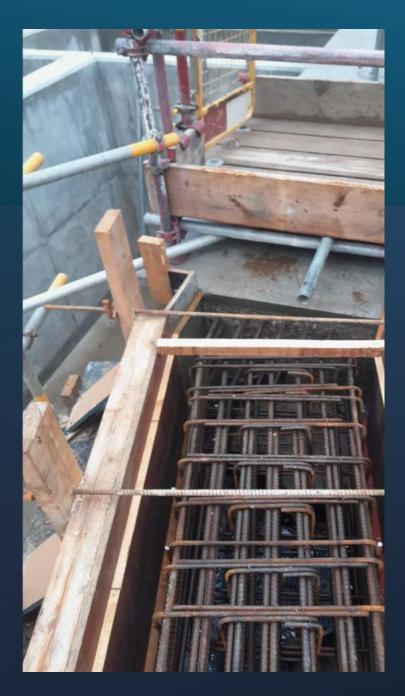




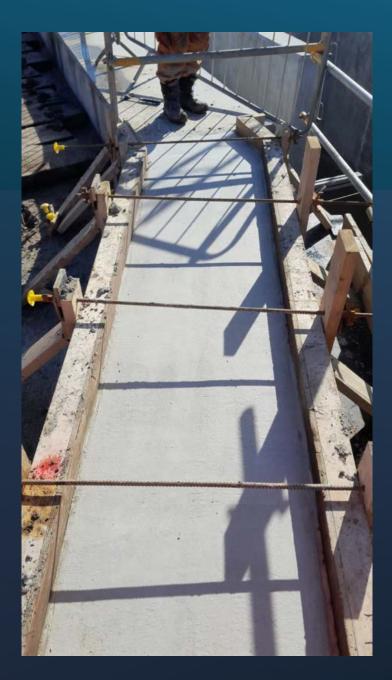
Capping beam splays typical detail.



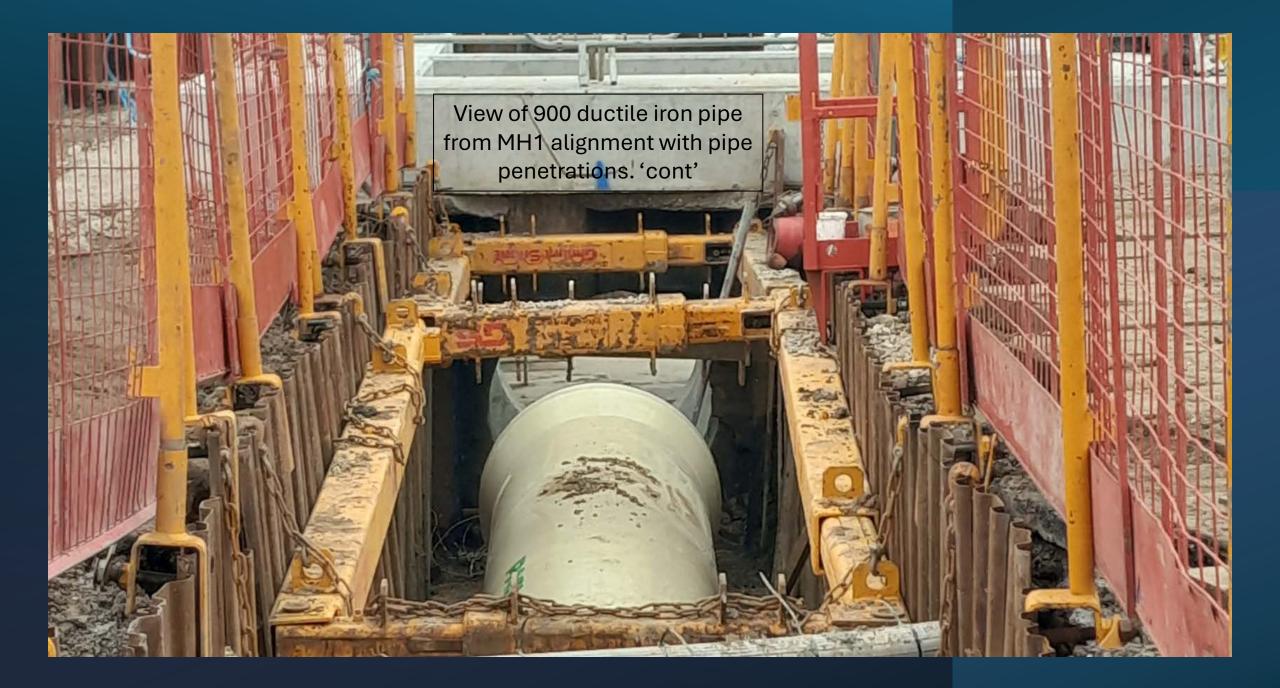
Capping beam splays typical detail. 'cont'



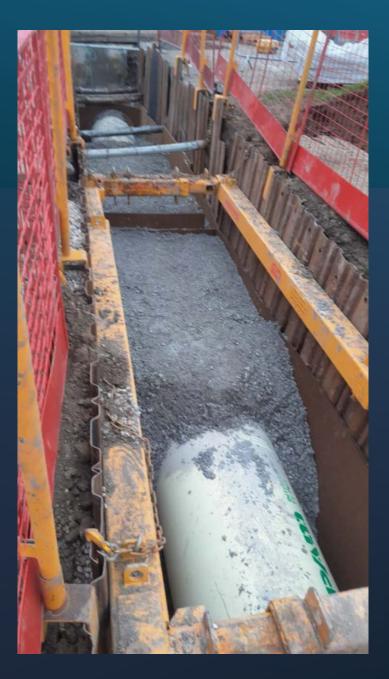
Completed splayed capping beam







View of 900 ductile iron pipe from MH1 complete with concrete surround

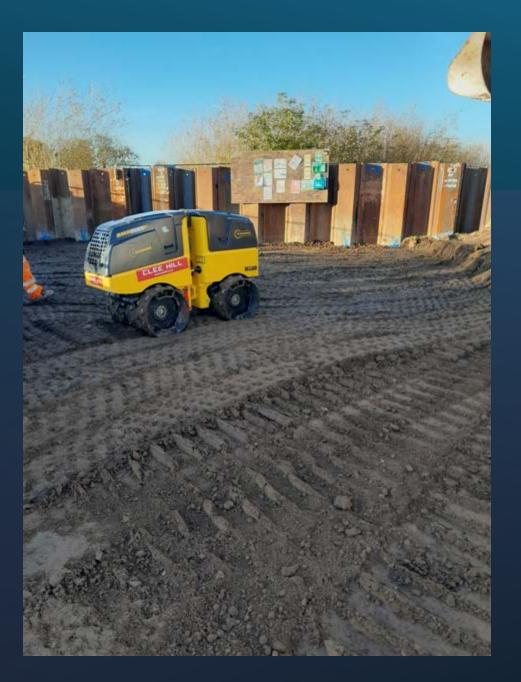
















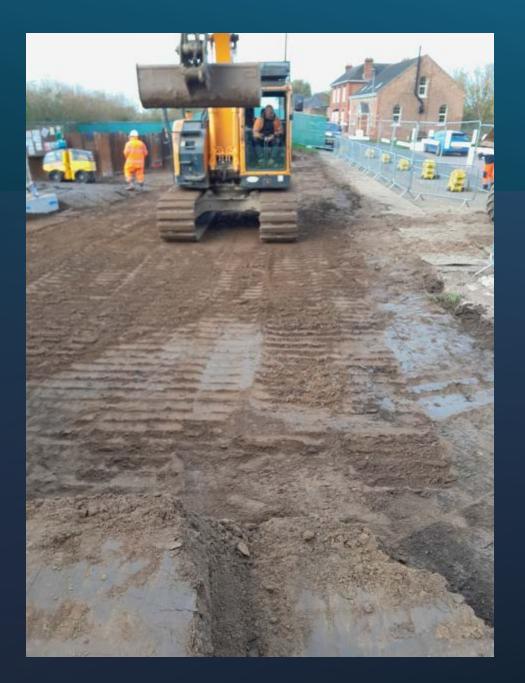








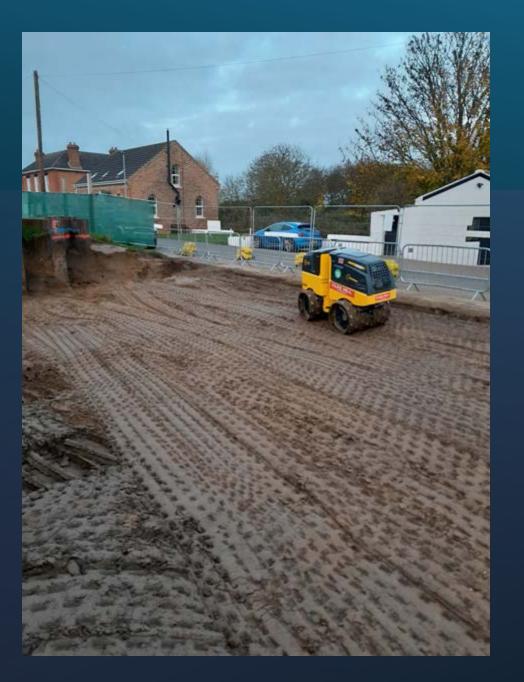


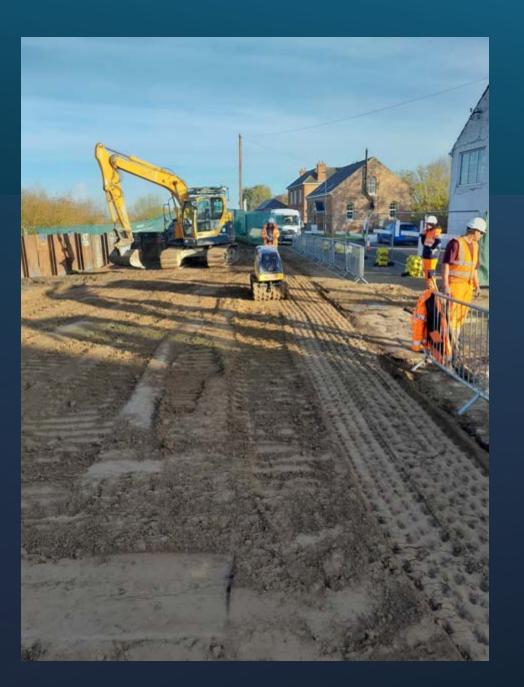




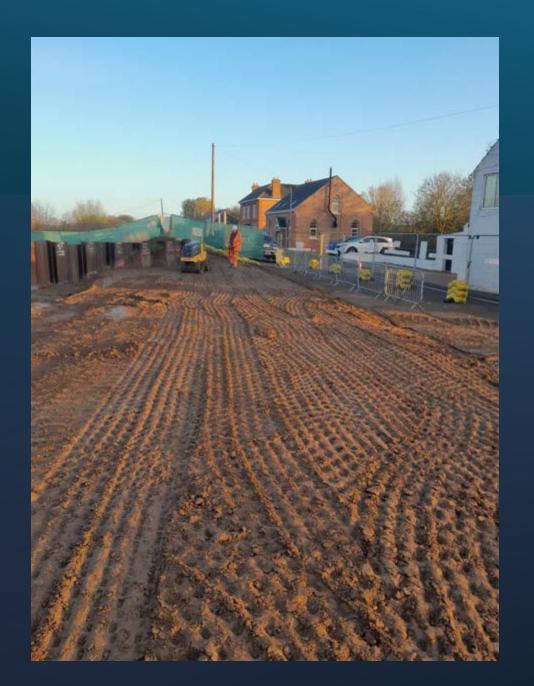


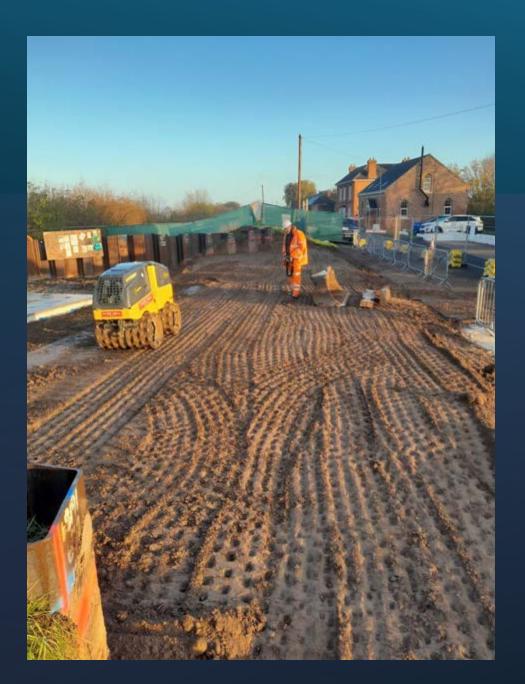










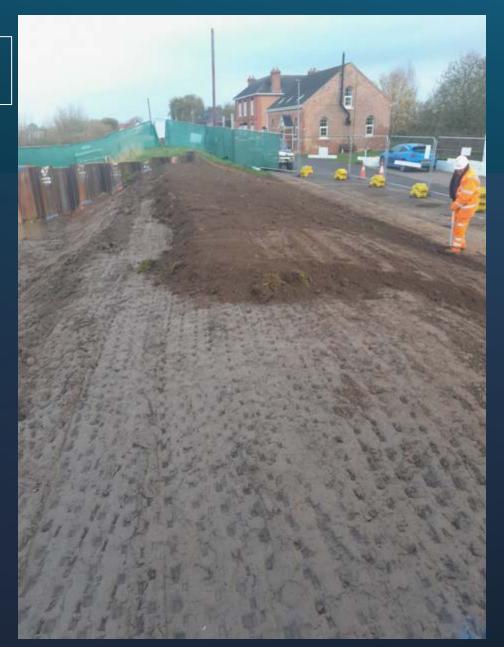


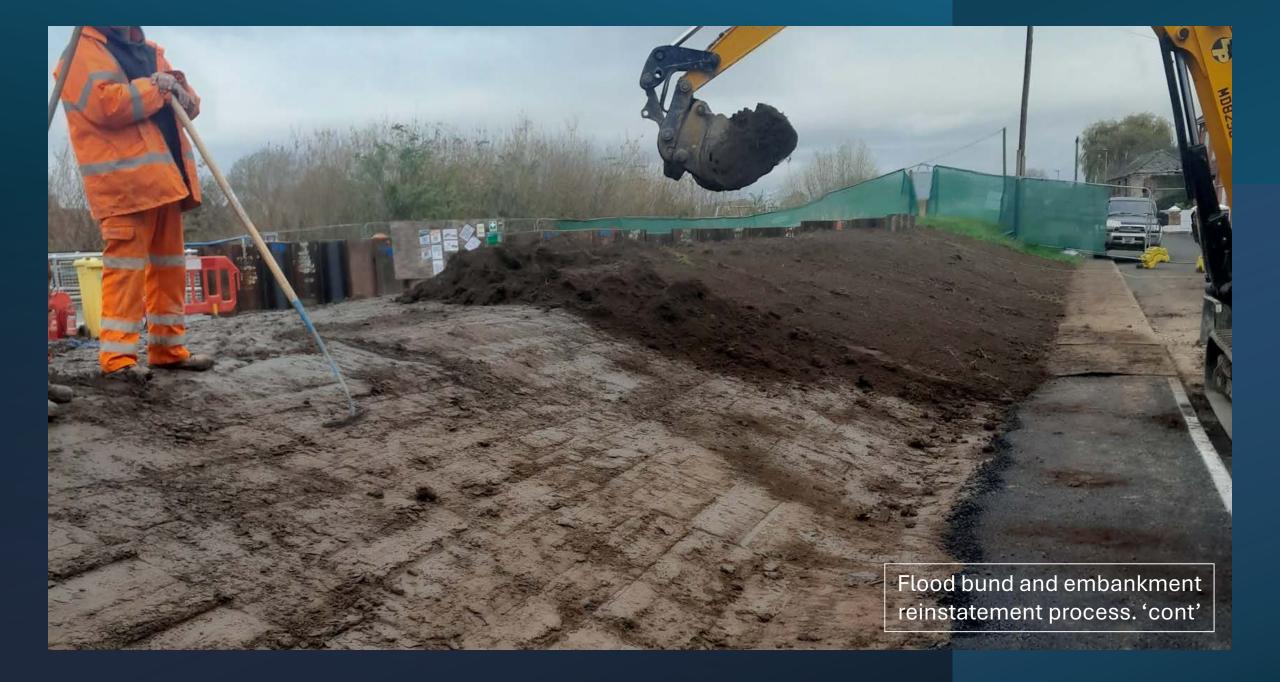














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Completed flood bund and embankment reinstatement. (excluding final profile and seeding)

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