



Quality Alert

Failed wall 1



The initial inspection of the wall found the following:

- Cracks to some bed joints
- Horizontal cracking between the balustrade posts through the class B brickwork
- The grout used to retain the hand rail was retaining moisture and crumbling
- Brickwork debonded
- Water ingress through the wall structure

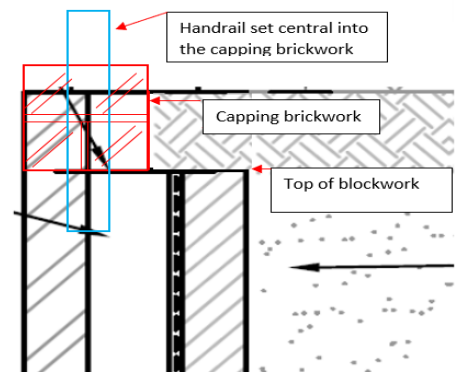
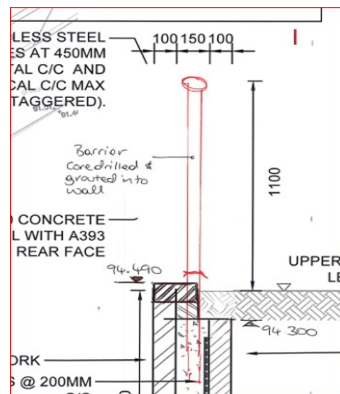
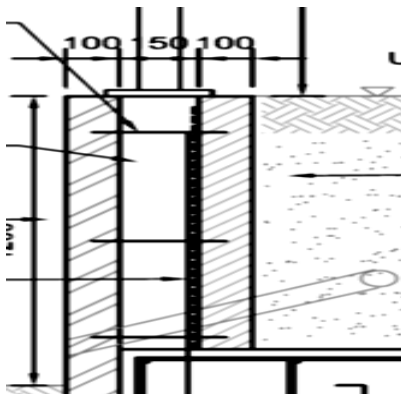
Review of the wall design and evidence collated found the following:

1. Was not built in accordance with the drawn design, see drawing section below
2. The wall structure was left low to allow 225 mm brickwork to be built on top, should have been a capping, the rear was not tanked and no weep drainage or any records of a land drain
3. Information past to the structural engineer was not quite correct regarding changes which got agreed

Original drawn section with the balustrade set central to the wall

Information issued for sign off showing the hand rail in the centre of the concrete and on the outer edge of the brickwork

The detail below is the actual installation



Outcome : the wall is to be rebuilt at a cost the Morgan Sindall

This advice should be used, where the above is applicable, and the information discussed with your team highlighting the following points:

- Fully understanding of the design before proposing any changes and the consequences of those changes
- Ensure the changes are agreed through the change control, collated for and issued as, as built
- Ensure all element of the design are followed and recorded via the inspection process

Toolbox Talk Packages (put an 'x' next to the related work packages):

X	Brickwork / Blockwork		Doors & Windows		Roof	X	Drainage		Frames		Roads, Paths, Paving's & Surfacing's		Site preparation works
X	Substructure		FFE		Flooring		Internal walls & partitions, Ceilings		Joinery / General Carpentry		Painting		Fire & Lightning protection
	Walling (Tiling)		Electrical installations		Services / Systems		Water installations		DFMA (Offsite Manufacture)	X	Design		Miscellaneous



Everyone has the right to be
100% Safe