

# Retaining Wall Solutions

## Solving a Ramp Problem in Huddersfield with a Successful Solution

Element construction are building a number of apartment blocks in Huddersfield on a site that was approximately 5m below the main highway. The access to the site was from a ramp from the main road to the site. The contractor had built a temporary access road using site materials and sandbags. A permanent structure was required for access.

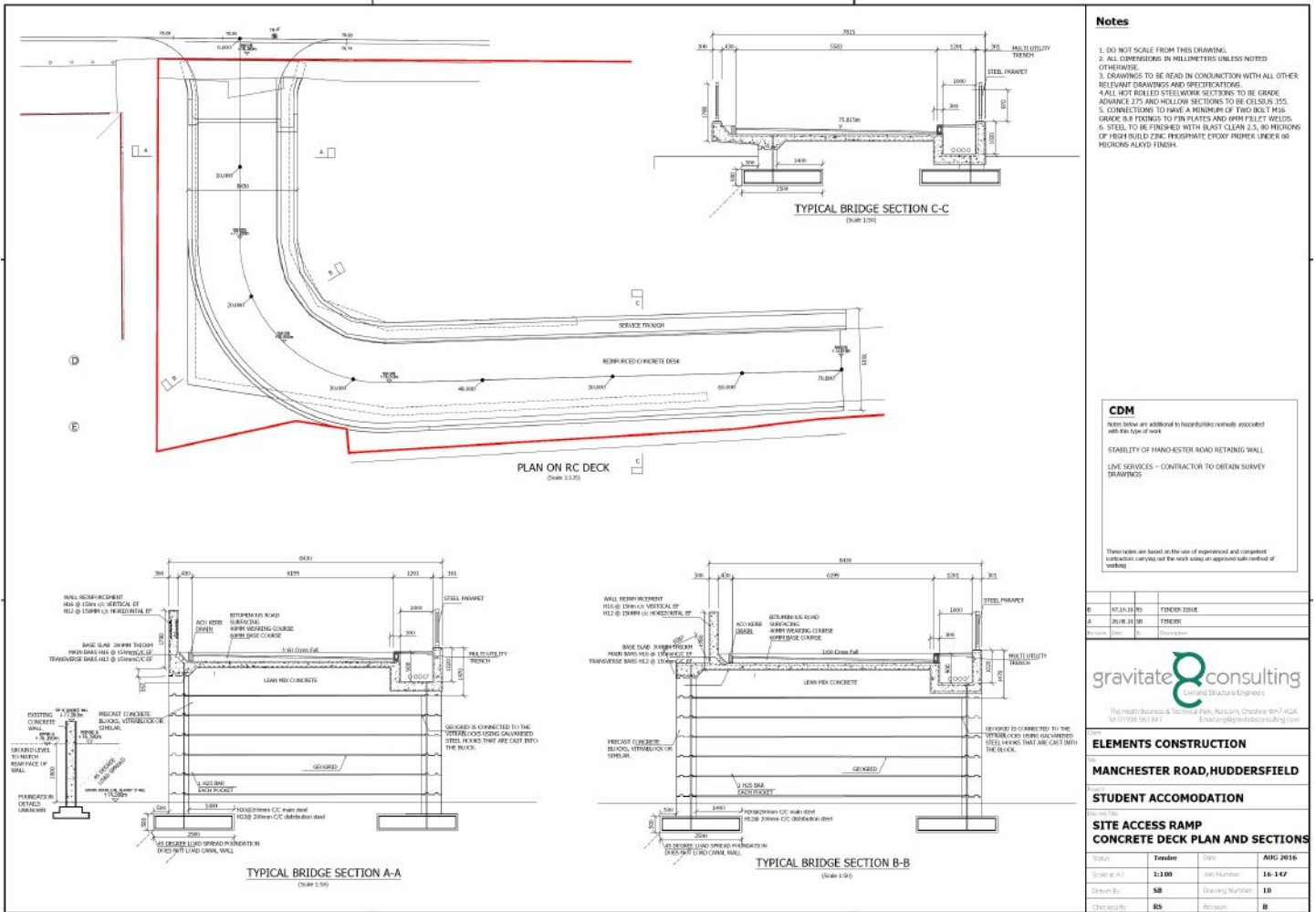


### THE CHALLENGE



The engineers were Gravitate Consulting. The first ramp design used steel that transferred the loads into ground beams and piles. The project went over budget and the engineers were asked to see if they could come up with an alternative solution. Retaining Wall Solutions were asked for some

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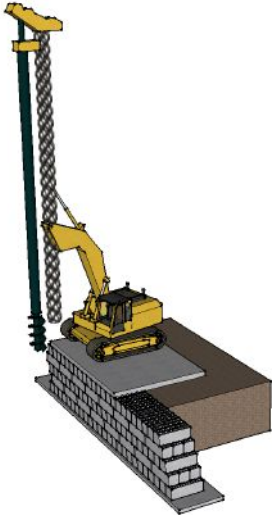


## THE SOLUTION

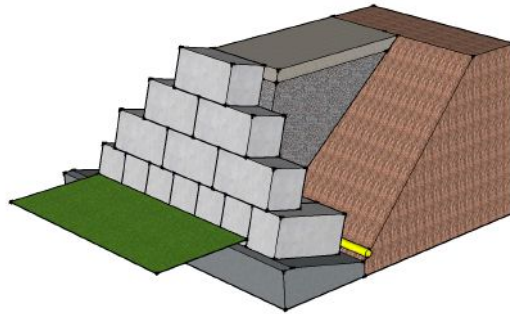
The solution was a mix of reinforced concrete interlocking blocks and a reinforced soil ramp. We developed an outline idea. Gravitate then developed the idea and designed the solution up. The project was then re-estimated and came within budget.

Retaining wall solutions prepared a delivery program, manufactured the blocks and delivered them to the construction sequence. The ramp was built to the time line and was a great success.

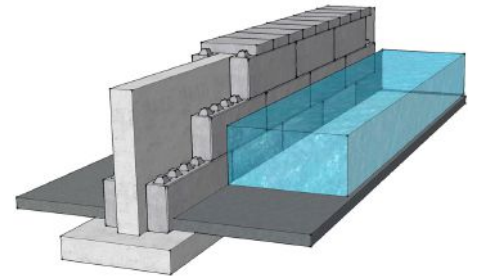




Piling Mats



Retaining Walls



Flood Defence Walls

## OUR PEDIGREE

Working in partnership with structural engineers and civil engineering contractors.

We come from the civil engineering sector and have invested in the development of advanced concrete technology and quality assurance.

Our mission is support structural engineers and civil engineering contractor to come up with innovative solutions to common problems.

Retaining wall solutions are the ideal partner for structural engineers and civil contractors who are seeking value engineered solutions to manage their projects.

## OUR SOLUTIONS

We have a range of solutions for retaining wall heights from 500mm to 6000mm. To investigate further, go to our website.

- King Post
- Precast L Shape
- Reinforced Block
- Stepoc
- Gravity Block
- Gravity Gabion Basket
- Gravity Masonty
- Kriblok
- Timbalok