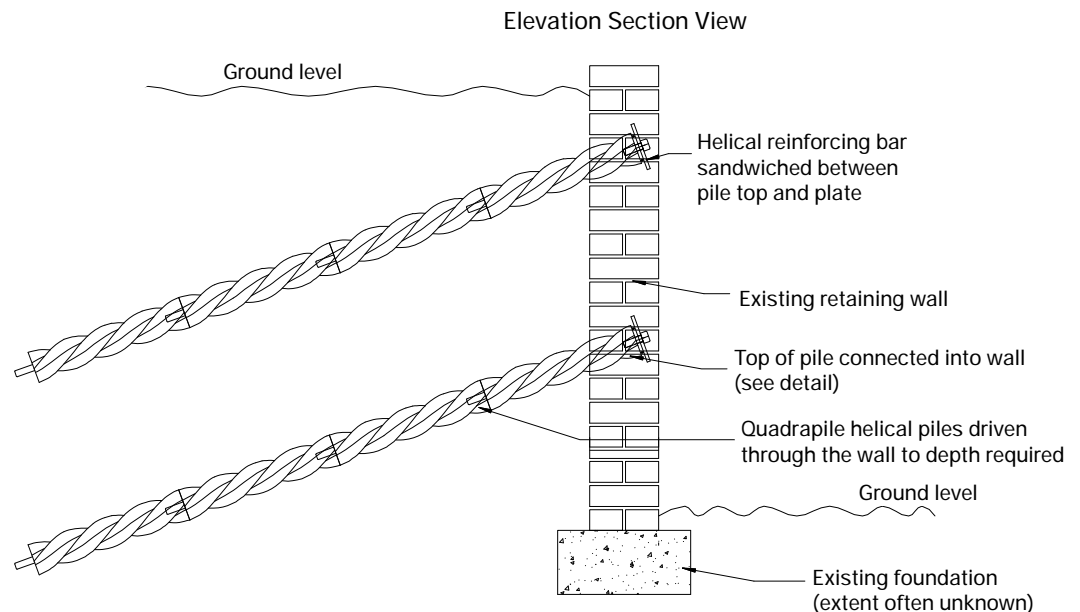
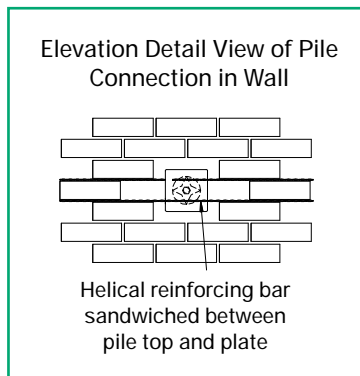




## Repairing a Failing Retaining Wall with Hidden Pile Tops



## METHOD STATEMENT

1. Cut through and remove masonry in the existing retaining wall at the locations specified to create a route large enough for the Quadrapile to be driven through.
2. Drive the Quadrapile at the specified angle through the hole created and into the ground behind.
3. When the expected depth is reached, carry out proof testing of the pile. Take care not to damage the wall by overloading during testing.
4. Continue driving deeper, if required, and re-testing to achieve the required load.
5. Drive the pile top to below the surface of the wall.
6. Install the masonry reinforcement (typically as per HB-08 but in vertically adjacent two courses for brick walls).
7. Fix the reinforcing to the pile top using the washer plate and encase in cementitious grout.
8. Make good the wall and repeat as necessary for the rest of the pile positions.

GUIDANCE NOTES *Unless otherwise specified, the following criteria are to be used:*

- a. Piles should be driven at an angle of approximately 20 degrees below horizontal.
- b. Either 64mm or 100mm diameter Quadrapile can be used (depending on loads required) - to be specified by designer.
- c. Number of piles and positions will be dependent on the wall and loads to be supported and should be specified by the designer but typical positioning is one-third up and one-third down the wall with rows of piles spaced at 1200mm centres forming a staggered grid.
- d. Amount and extent of masonry reinforcement will be dependent on the masonry condition and should be specified by the designer.

*To find out more and to see how we could help you, please contact us*

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