

Technical Review

Project: Town End Farm

Client: Mr N. Smith

Document Number : 24273-HWC-V1-zz-RP-S-1001

Issue Date : October 2024

Revision : P01



HW Consulting Engineers

100 Melton Road

West Bridgford Nottingham

NG2 6EP

hwconsultingengineers.com

1.0 Introduction and Brief

On the instruction of Mr N. Smith, HW consulting engineers have been appointed to assess the necessity of a retaining wall installed as part of the enabling works carried out at Town End Farm, 17 Flush House Lane, Holmfirth. A site inspection was carried out on the 3rd October 2024.

2.0 Observations and Summary

Site works are being carried out to construct a new domestic dwelling. A plateaued external ground level approximately 3m wide surrounds the rear of the property before steeply sloping away at a gradient circa 1:5 into the adjacent fields below.

To enable safe access into the proposed property a stone gabion retaining wall has been installed (circa 2m in height) around the plateaued portion of higher ground.

Taking into account the loads that are being imparted onto the higher ground from vehicles there would be a potential risk that the ground could slip or collapse along its embankment as the ground is surcharged if ground retaining provisions were not in place.

On this basis a retaining wall structure is considered necessary to resist the loads acting onto the higher level ground to prevent the ground collapsing. The currently installed stone gabion retaining wall would appear to be a suitable and pragmatic solution in keeping with the aesthetics of the surrounding stone buildings and boundary wall lines.

3.0 Photographs



Photo 1 - Rear Elevation

Showing gabion façade and the height difference between plateau level and existing sloping ground.



Photo 2 - Higher Plateau Level

Showing extent of installed retaining wall.



Photo 3 - Site View

Showing extent of natural sloped ground.



Photo 4 - Existing Walls

Showing existing boundary and neighbouring stone walls.

HW Consulting Engineers Limited

A. Unit 2A 100 Melton Road

B. West Bridgford NG2 6EP

E. info@hwconsultingeng.co.uk

W. www.hwconsultingengineers.com

