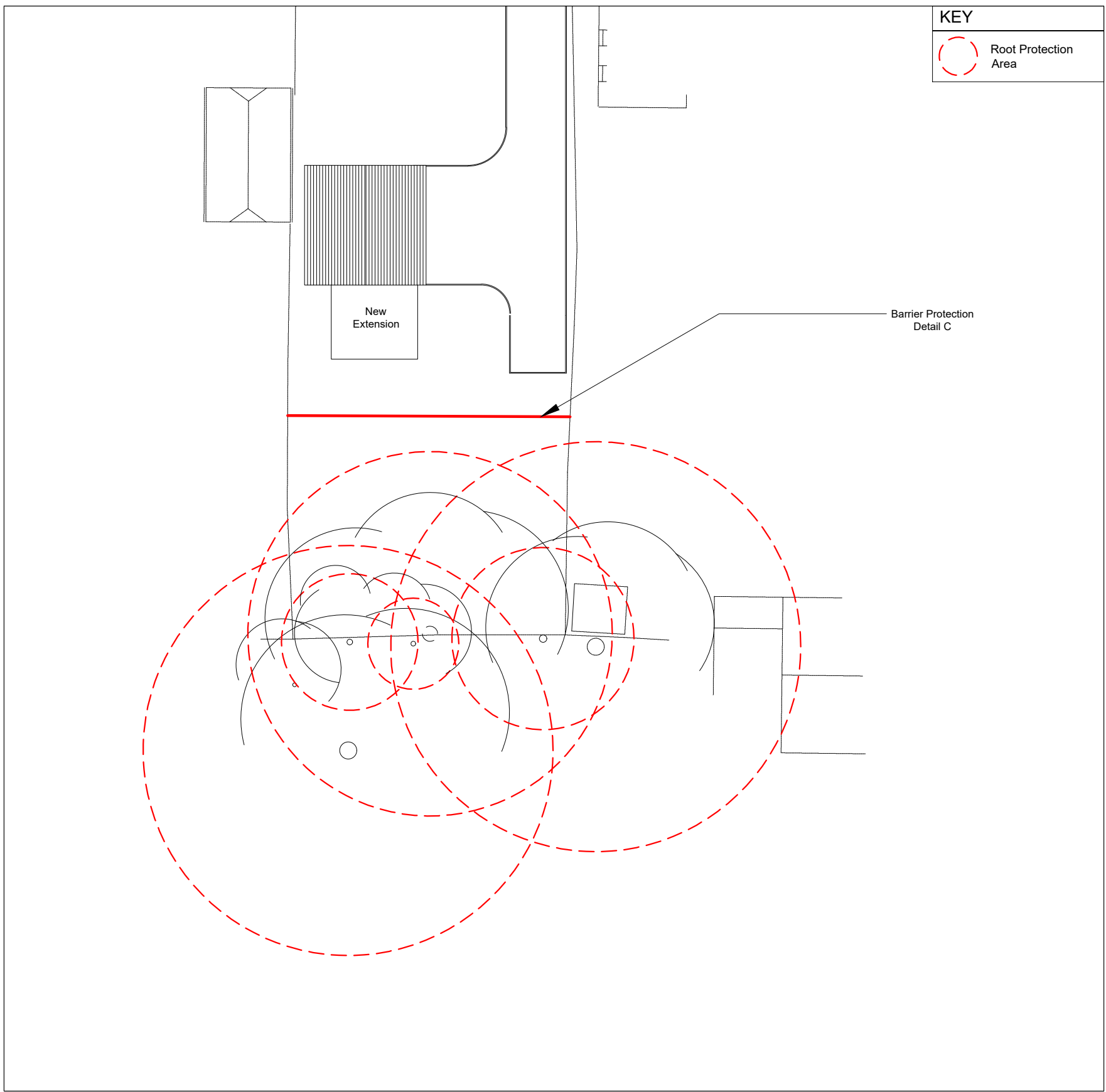




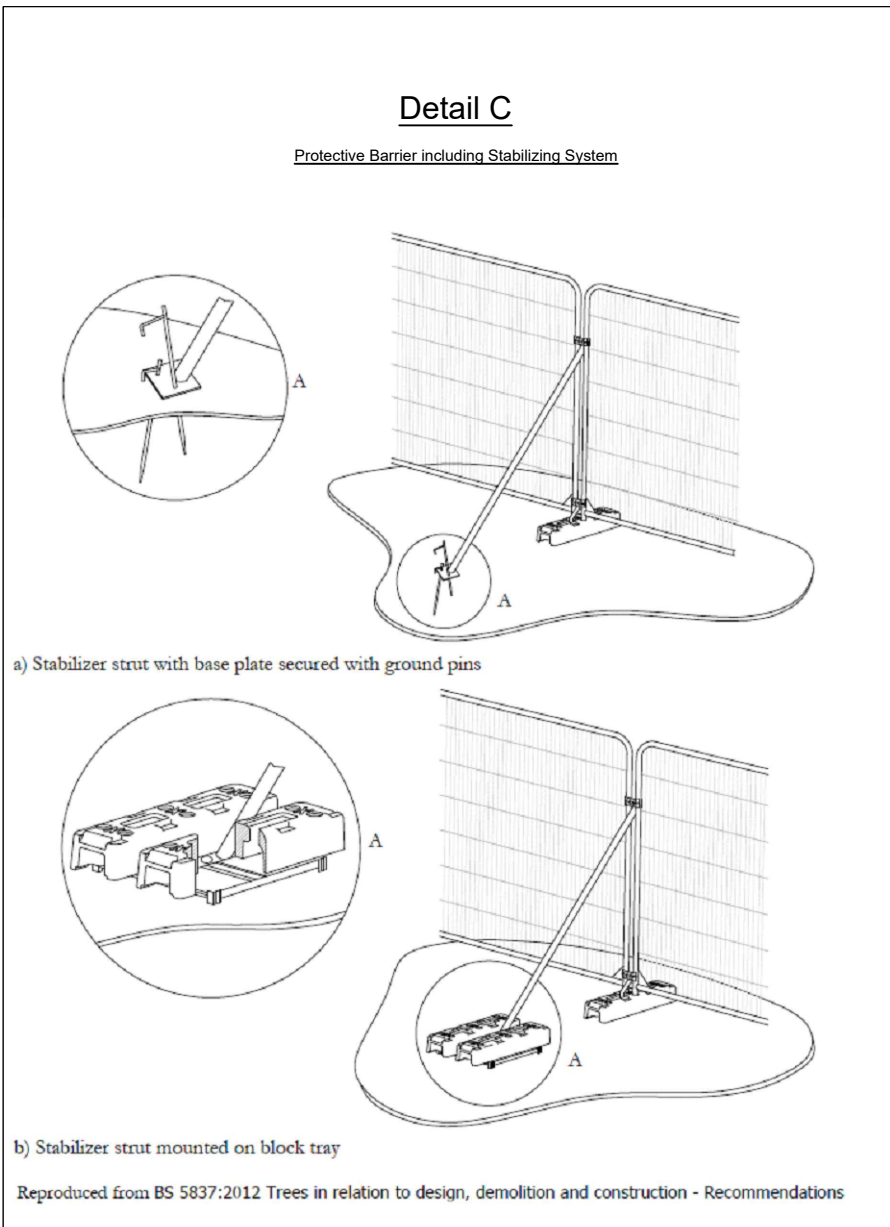
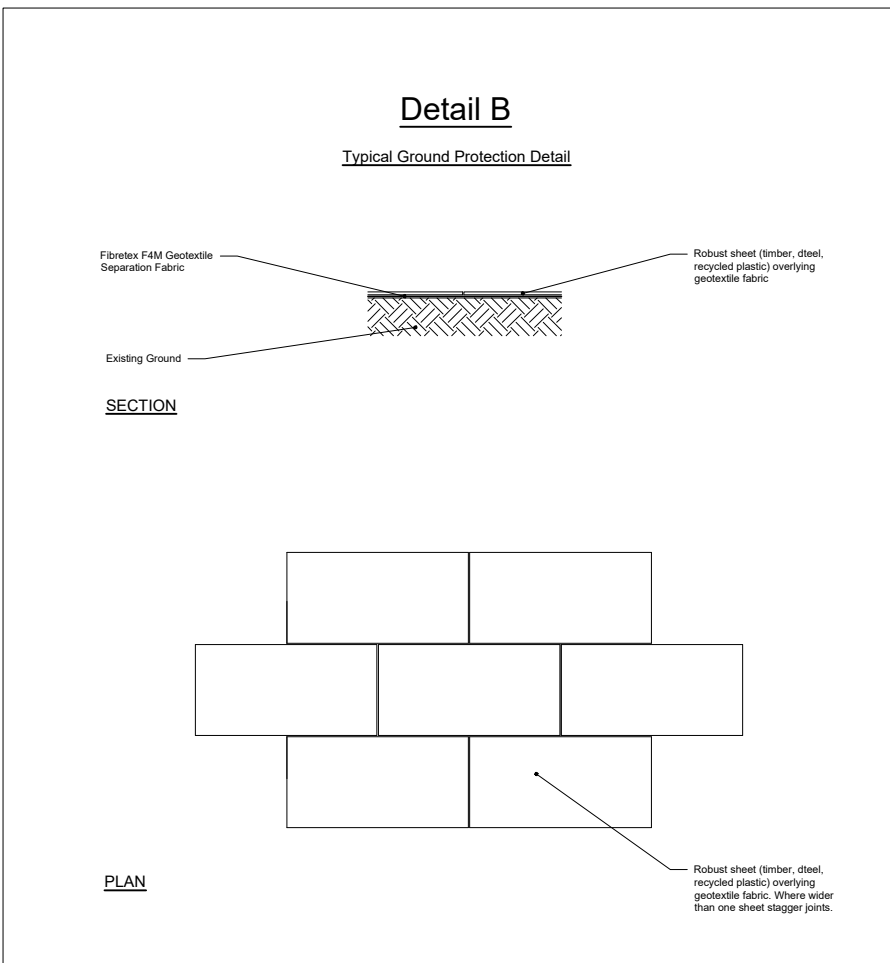
Detail A

Culvert Section - Tree Root Protection
Gravel Surface

The diagram illustrates a cross-section of a culvert structure designed for tree root protection. The culvert is represented by a central rectangular block with a diagonal hatching pattern. Above this block, a layer of 'Fibrous F48 Geotextile Separation Fabric' is shown. Below the culvert block, another layer of 'Fibrous F48 Geotextile Separation Fabric' is depicted. The entire structure is supported by 'Existing Ground', which is indicated by a horizontal line at the bottom. To the right of the culvert, a 'Decorative Gravel' layer is shown, followed by a 'Treated Timber Edging' layer. A 'Culvert Tree Root Protection System' is indicated by a bracket on the left side, encompassing the culvert and the surrounding geotextile layers. The system is designed to prevent tree roots from entering the culvert and to provide a clear, angular stone bed for the culvert.

Labels and Dimensions:

- Fibrous F48 Geotextile Separation Fabric
- Culvert Tree Root Protection System (100mm max gap, 400mm Clear Angular Stone Bed)
- Decorative Gravel
- Treated Timber Edging
- Fibrous F48 Geotextile Separation Fabric
- Existing Ground



1. Introduction

- ## 2. Tree protection barriers

- ### 3. Ground protection during demolition and construction

- 3.1. No works are proposed or access required within the RPA.

4. Additional precautions outside the exclusion zone

- 4.1. Consideration is to be given to provide sufficient area for wide loads, tall loads and plant with booms, jibs and counterweights (including drilling rigs), so that they operate without coming into contact with the retained trees. Any transit or traverse of plant in proximity to trees will be conducted under the supervision of a banksman, to ensure that adequate clearance from trees is maintained at all times. Access facilitation pruning is to be undertaken where necessary to maintain this clearance, with regards to trees subject to a Tree Preservation Order local planning authority consent for pruning might be required.
- 4.2. Fires on sites should be avoided if possible. Where they are unavoidable they should not be lit in a position where heat could affect foliage or branches. The potential size of a fire and the wind direction should be taken into account when determining its location, and it should be attended at all times until safe enough to leave.
- 4.3. Any materials whose accidental spillage would cause damage to a tree are to be stored and handled well away from the outer edge of its RPA.

5. Avoiding physical damage to the roots during demolition or construction

- 5.1. No excavation is required with the RPA, existing ground levels generally are to be retained within the RPA to avoid damage to roots with the topsoil retained in-situ.

6. Tree protection during demolition

- 6.1. No demolition works are proposed on the project.

7. Permanent hard surfacing within the RPA

- 7.1. No permanent hard surfacing is required within the RPA on this project.

8. Special engineering for foundations within the RPA

- 8.1. No special engineered foundations are required on this project.

9. Subterranean construction within the RPA

- 9.1. No subterranean construction are required within the RPA on this project.

10. Underground and above-ground utility apparatus

- 10.1. No underground and above ground utility apparatus are required within the RPA on this project..

