

Method Statement - Building Near Trees

Site Address:	Groveside, Grove Road, Burbage, LE10 2AD
Owner:	Mr R Turner
Proposal:	Carport Extension To Existing Garages
LPA Ref:	
Date of Assessment:	04/08/2023
Carried out by:	Barry Brooks, Chartered Building Engineer
Date: 04/09/2023	

Development Proposal

The proposal is to build a carport extension to existing garages. A mature tree is in close proximity to the proposal, therefore appropriate constructional methods, care and attention will need to be taken during the construction process.

Protection of Tree Close to Proposal

A Root Protection Area (RPA) will need to be provided and identified to ensure that the proposed building & its construction does not cause any harm to tree.

Trees are to be adequately protected during construction by barriers & ground protection around the RPA. Measures should follow the best practice principles set out in BS 5837: Trees in Relation to Construction.

Barriers/fencing to be provided to the tree & must remain rigid & complete during the construction process. Fencing may consist of arras fencing with suitable bases or a scaffold framework as indicated in the attached figure.

Ground protection comprising of scaffold boards over a compressible layer, laid onto geo-textile material's to be provided for pedestrian movements in the RPA if such movements cannot be avoided.

All constructional aspects to be designed by a Structural Engineer in conjunction with a Tree Specialist to ensure the protection and longevity of the tree and the associated root system.

Method Statement for Construction

Proposed building to be constructed on pad style foundation to limit area of excavation.

Excavation to be by use of mini-excavator & post hole borer. When near trees/roots then the excavation to be by hand tools. Operatives to guide equipment at all times, therefore not imposing on trees/roots or associated aspects.

High standards of housekeeping, care & attention to be maintained.

No materials or equipment to be stored or traversed over the RPA.

No heavy site machinery to be used.

Trees to be protected by barrier around identified trees, with secure panels/scaffold, complete with rubber feet & appropriate couplings.

BS5837 - Fig 2. Example of Protection Area Barrier Fence

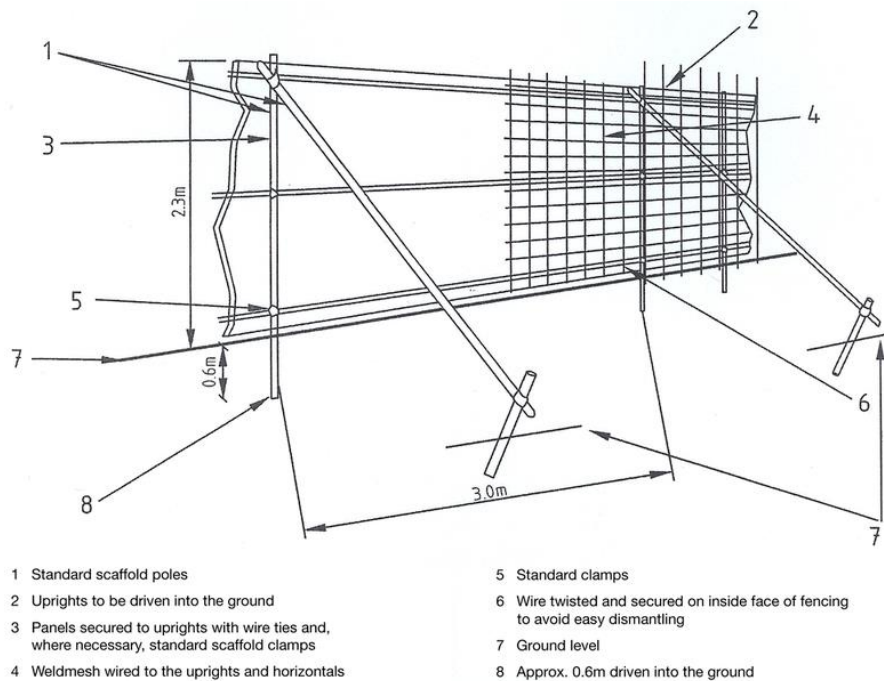
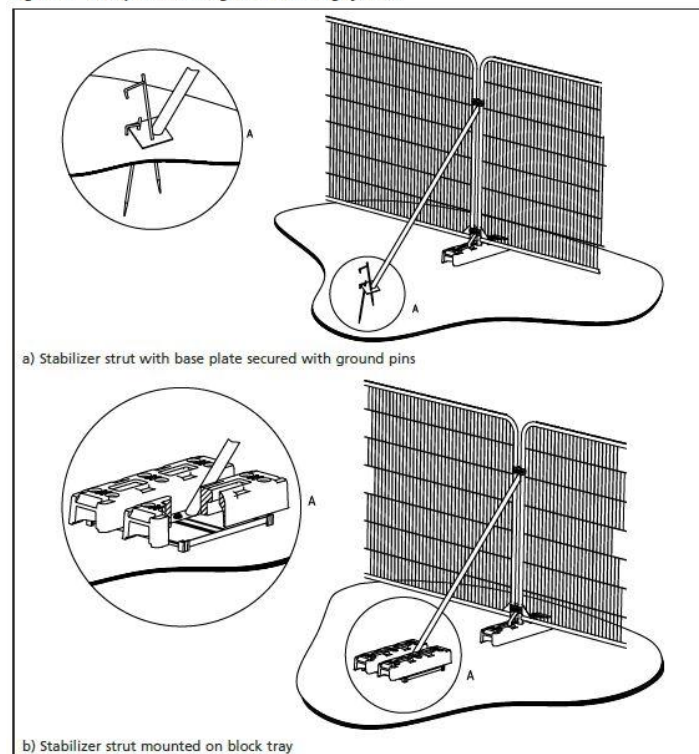


Figure 2. – Protective fencing for RPA

BS5837 - Fig 3 Examples of Above Ground Stabilisation

Figure 3 Examples of above-ground stabilizing systems



Annex D Root protection area (normative)

The RPAs given in Table D.1 should be used for single stem trees and the equivalent resultant combined stem diameter for multi-stemmed trees.

Table D.1 Root protection areas

Single stem diameter mm	Radius of nominal circle m	RPA m ²	Single stem diameter mm	Radius of nominal circle m	RPA m ²
75	0.90	3	675	8.10	206
100	1.20	5	700	8.40	222
125	1.50	7	725	8.70	238
150	1.80	10	750	9.00	255
175	2.10	14	775	9.30	272
200	2.40	18	800	9.60	290
225	2.70	23	825	9.90	308
250	3.00	28	850	10.20	327
275	3.30	34	875	10.50	346
300	3.60	41	900	10.80	366
325	3.90	48	925	11.10	387
350	4.20	55	950	11.40	408
375	4.50	64	975	11.70	430
400	4.80	72	1 000	12.00	452
425	5.10	81	1 025	12.30	475
450	5.40	92	1 050	12.60	499
475	5.70	102	1 075	12.90	519
500	6.00	113	1 100	13.20	547
525	6.30	124	1 125	13.50	573
550	6.60	137	1 150	13.80	598
575	6.90	150	1 175	14.10	625
600	7.20	163	1 200	14.40	652
625	7.50	177	1 225	14.70	679
650	7.80	191	1 250+	15.00	707

NOTE These figures are derived from the calculations described in 4.6.