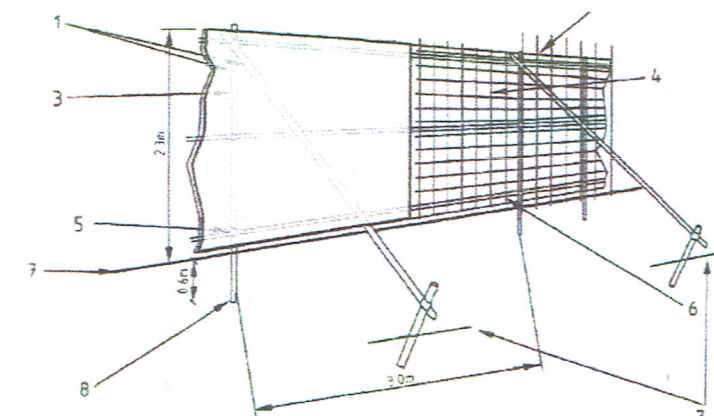


PROTECTIVE BARRIER TO RETAINED TREES

ADAPTED FROM FIG 2 BS 5837



- 1 Scaffold pole framework
- 2 Uprights driven into the ground
- 3 Ply or corrugated sheet metal panels secured to uprights with standard clamps or wires. or
- 4 Weldmesh panels wired to uprights & horizontal
- 5 Standard clamps
- 6 Wire twisted and secured on inside of fencing to avoid easy dismantling
- 7 Existing ground levels maintained
- 8 Pole depth approximately 0.6m driven into the ground

SITE NOTICES ON FENCING

Pre-printed laminated waterproof signs A3 in size should be fixed securely to fencing panels on each enclosure at 9 metre minimum intervals. (These are available in pdf form from the address below.)

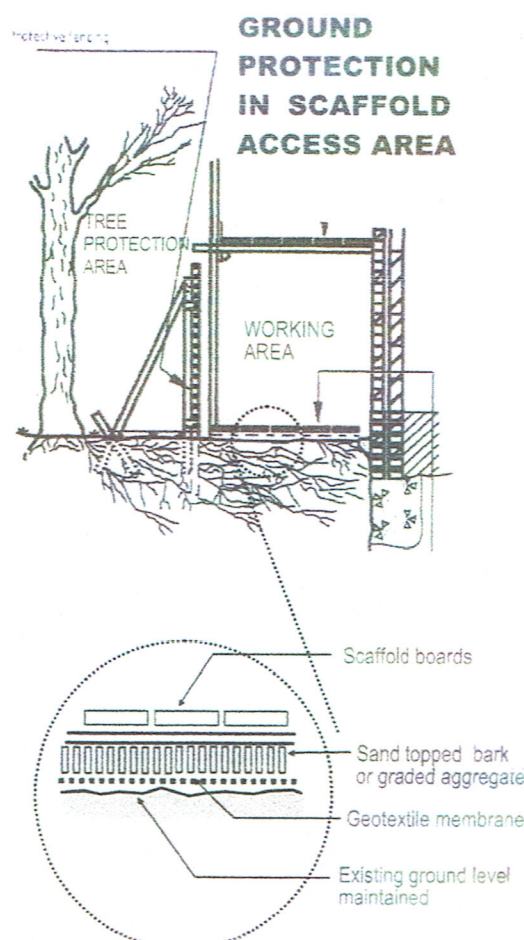
PROTECTED TREE ZONE
NO STORAGE OR OPERATIONS
WITHIN FENCED OFF AREAS

GROUND PROTECTION

Where the need for ground protection is identified, the following ground protection measures should be installed:

- i for pedestrian access, ground protection with scaffold boards laid butt jointed on a 50mm cushioning layer of bark or single size gravel, spread on top of a porous geotextile membrane or
- ii for access haul roads or close construction involving heavy loading, a reinforced concrete slab or a proprietary cellular confinement system, laid on a geotextile membrane over existing ground levels, designed by a civil/structural engineer for the specific purpose
- iii both the above are to be removed and surface decompaction and rootzone enhancement measures undertaken such as spiking, aeration and / or injection of rhizobium inoculants

Failure to comply with these requirements could lead to enforcement action, including the issuing of a Stop Notice, until the matter has been remedied. Where damage has occurred to legally protected trees, you may be liable for prosecution.



Protecting Tree Roots

Tree roots keep a tree healthy and upright. Most roots are found in the top 600mm of soil. They often grow out further than the tree's height. The majority of these roots are very fine, even close to a tree few will be thicker than a pencil. Most street tree roots grow under the pavement and into front gardens, but they can also grow under the carriageway. If roots are damaged, for example by trenching, the tree may fall or lose its vigour and decline.

Protecting Trees

Always:

- Establish a protection zone around each tree. (To determine the Protection Zone measure the diameter of the tree at chest height (approx. 1.5 metres above ground level), multiply this by 12 and draw a circle of this radius from the centre of the tree).
- Erect Heras fencing on scaffolding poles around the protection zone, as recommended in BS5837:2005.
- Seek advice from a supervisor or one of the council's tree officers when you are unsure of requirements.
- Report all tree damage to the site supervisor.
- Hand dig within the identified protection zone of any tree and carefully work around roots, retaining as many as possible.
- Consider using an airspade as this is a non-invasive method.
- Use sharp cutting/pruning tools when roots need to be cut and only cut those roots measuring less than 25mm in diameter. Make a clean cut and leave as small a wound as possible. Any work to roots with a greater diameter requires consent from the council.
- Reinstall around the exposed tree roots with sand and reinstate tree pits with good quality top soil.
- Keep compaction to a minimum in the immediate tree root area.

Actions to Avoid:

- **Never** excavate with machinery within the root protection zone. Use trenchless techniques where possible. Otherwise dig only by hand.
- **Never** cut roots over 25mm in diameter, unless the Council's tree officer agrees beforehand.
- **Never** repeatedly move/use heavy mechanical plant close to trees except on hard standing.
- **Never** store spoil or building material, including chemicals and fuel, near to trees.
- **Never** light a fire near a tree.
- **Never** chain machinery to trees, or nail notices to their trunks or lean paving slabs against trees.

Important note

Frost can damage exposed roots. If trenches are to be left open overnight, cover the roots with dry sacking, and remember to remove the sacking before backfilling.

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Site address

37 Randall Road, Chandlers Ford, Hampshire

Project

Single storey rear extension

Drawing title

Tree protection in accordance with BS 5834
Standard detail

Scale not to scale

Drawing ref. F

Date 07/12/2023

Revisions

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