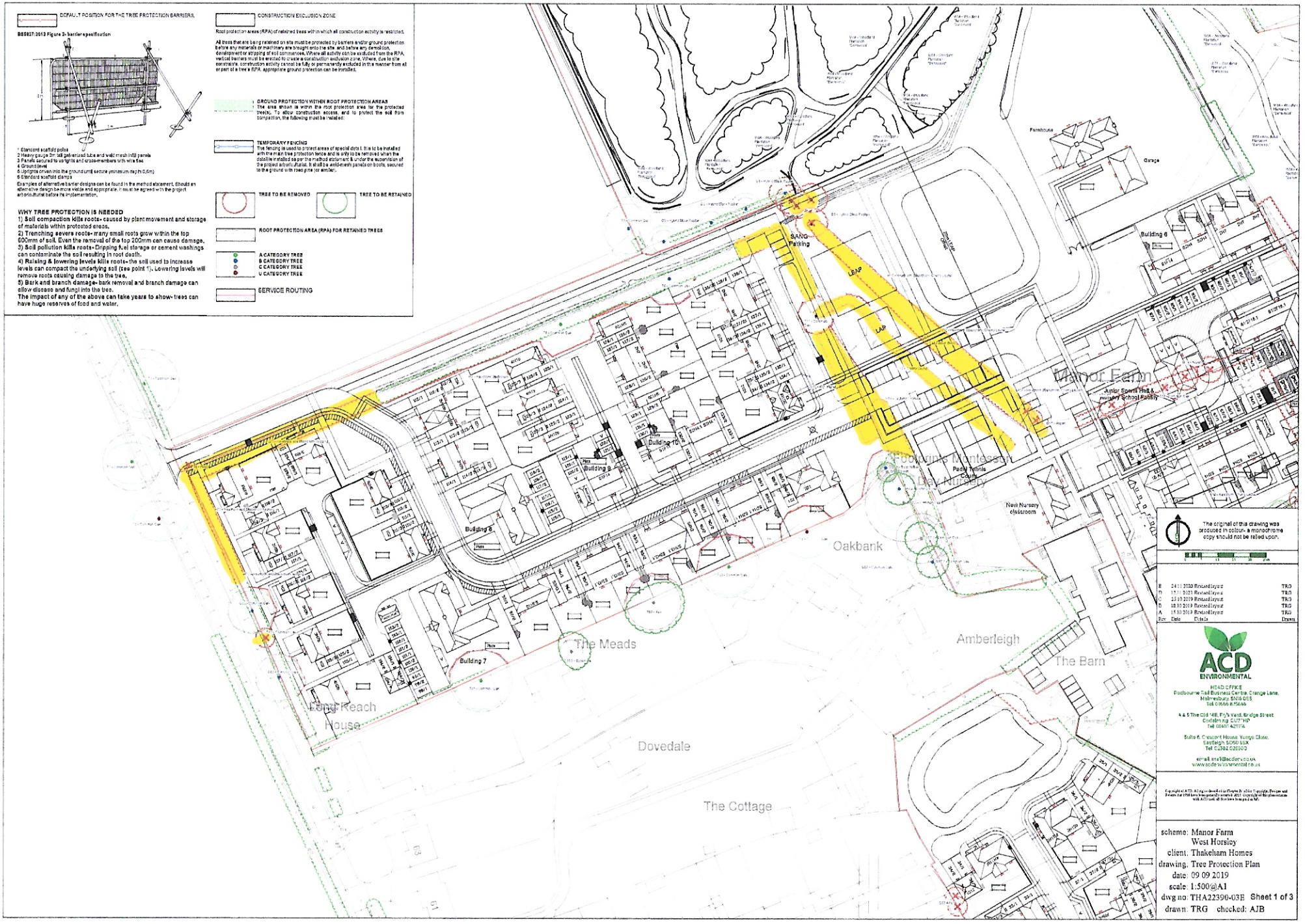
DEFAULT POSITION FOR THE TREE PROTECTION BARRIERS.
BS5837:2012 Figure 2- barrier specification
1 Standard scaffold poles
2 Heavy gauge 3m tall galvanized tube and weld mesh infill panels
3 Panels secured to uprights and cross-members with wire ties
4 Ground level
5 Uprights driven into the ground until secure (minimum depth 0.6m)
6 Standard scaffold clamps
Examples of alternative barrier designs can be found in the method statement. Should an alternative design be more viable and appropriate, it must be agreed with the project arboriculturist before its implementation.
WHY TREE PROTECTION IS NEEDED
1) Soil compaction kills roots- caused by plant movement and storage of materials within protected areas.
2) Trenching severs roots- many small roots grow within the top 600mm of soil. Even the removal of the top 200mm can cause damage.
3) Soil pollution kills roots- Dripping fuel storage or cement washings can contaminate the soil resulting in root death.
4) Raising & lowering levels kills roots- the soil used to increase levels can compact the underlying soil (see point 1). Lowering levels will remove roots causing damage to the tree.
5) Bark and branch damage- bark removal and branch damage can allow disease and fungi into the tree.
The impact of any of the above can take years to show- trees can have huge reserves of food and water.
CONSTRUCTION EXCLUSION ZONE
Root protection areas (RPA) of retained trees within which all construction activity is restricted.
All trees that are being retained on site must be protected by barriers and/or ground protection before any materials or machinery are brought onto the site, and before any demolition, development or stripping of soil commences. Where all activity can be excluded from the RPA, vertical barriers must be erected to create a construction exclusion zone. Where, due to site constraints, construction activity cannot be fully or permanently excluded in this manner from all or part of a tree's RPA, appropriate ground protection can be installed.
GROUND PROTECTION WITHIN ROOT PROTECTION AREAS
The area shown is within the root protection area for the protected trees. To allow construction access, and to protect the soil from compaction, the following must be installed:
TEMPORARY FENCING
The fencing is used to protect areas of special note. It is to be installed with the main tree protection fence and is only to be removed when the detail is installed as per the method statement & under the supervision of the project arboriculturist. It shall be weld-mesh panels on boots, secured to the ground with road pins (or similar).
TREE TO BE REMOVED
TREE TO BE RETAINED
ROOT PROTECTION AREA (RPA) FOR RETAINED TREES
A CATEGORY TREE
B CATEGORY TREE
C CATEGORY TREE
U CATEGORY TREE
SERVICE ROUTING
SANG Parking
LEAP
LAP
Farmhouse
Garage
Building 6
Manor Farm
Junior Sports Hall & Nursery School Facility
Footprints Montessori Day Nursery
Paddy Tennis Courts
New Nursery classroom
Building 10
Building 9
Building 8
Building 7
Oakbank
The Meads
Amberleigh
The Barn
Long Reach House
Dovedale
The Cottage
The original of this drawing was produced in colour- a monochrome copy should not be relied upon.
B 24.11.2020 Revised layout TRG
D 15.11.2021 Revised layout TRG
C 23.10.2019 Revised layout TRG
B 18.10.2019 Revised layout TRG
A 15.10.2019 Revised layout TRG
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West Horsley
client: Thakeham Homes
drawing: Tree Protection Plan
date: 09 09 2019
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drawn: TRG checked: AJB