

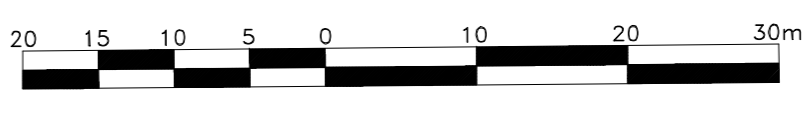
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rev	date:	amendments:	alt:
A	11/02/2021	Site area extended.	E.H.

LEGEND: TREE PROTECTION TO BS 5837:2012

- TREE PROTECTION FENCE - to be constructed in accordance with BS5837 prior to commencement.
- TREE PROTECTION FENCE - PHASE 02 to be constructed in accordance with BS5837 prior to commencement.
- CONSTRUCTION EXCLUSION ZONE - to be protected from construction in accordance with BS5837.
- DEMOLISHED BUILDING FOOTPRINT
- EXISTING HARD SURFACING
- POROUS PAVING - pedestrian footpath within red protection zones to be porous paved to dig construction to engineers details.
- REINFORCED SLOPE - permeable / no dig layered Calveo TRP 200mm mineral aggregate with 10mm regular stone. Outer edge filled with riprap and protected with erosion control mat to engineers details.
- DIMENSIONS - setting out dimensions from trunk of retained trees or other existing site features. Phase 2 fencing to be erected prior to removal of Phase 01 fencing.
- TREES TO BE RETAINED - with root protection zone illustrated.
- TREE REMOVAL - trees to be removed to enable construction.

AGRICULTURAL METHOD STATEMENT: refer to the Agricultural Method Statement 2005(EHAM500) for more detailed information.



TREE PROTECTION NOTES:
 These in relation to design demolition and construction BS5837:2012

1.0 PRIOR TO COMMENCEMENT OF WORKS:

1.1 PRIOR TO COMMENCEMENT: All trees that are being retained outside shall be protected by barriers and / or ground protection before any materials or machinery are brought onto the site, and before any demolition, development, or site works are commenced. The Root Protection Area (RPA) associated with retained trees designated for retention shall be protected from damage by erection of scaffold framework barriers in accordance BS 5837:2012 Figure 2 including where specified appropriate ground protection.

1.2 EXTENT OF ROOT PROTECTION AREA (RPA) as shown on the Tree Protection Plan (TPP) the RPA is agreed to be in accordance with Annex D, Table D1 'Root Protection Area' - as an area equivalent to a circle radius 12 times the stem diameter (large stem trees) or based on the combined stem diameter for medium stem trees with roots not more than 150mm from the stem (small stem trees) (BS 5837:2012 Clause 4.1).

1.3 TREE PROTECTION BARRIERS: vertical and horizontal scaffold framework, wall braced to meet impacts as illustrated below (refer to Figure 2 of BS5837:2012). The vertical bracing should be spaced at a maximum interval of 2 metres and driven securely into the ground. Care should be taken to avoid underground services and contact with structural steel. In the presence of underground services, retained barrier bracing where special circumstances dictate an alternative specification as illustrated in Figure 3 of BS5837:2012 may be acceptable subject to agreement with the project arboricultural and the local planning authority.

1.4 weather site notices should be attached to the barrier with details such as 'CONSTRUCTION EXCLUSION ZONE - NO ACCESS'. Once installed barriers and ground protection shall not be removed or altered without prior approval of the project arboricultural and where necessary approval from the local planning authority.

1.5 Standard scaffold poles
 2. Heavy gauge 2in dia galvanised tube and wash mesh infill panels
 3. Panels secured to strings and cross members with area ties
 4. Ground Level
 5. Scaffolding driven into ground until secure (minimum depth 0.6m)
 6. Standard scaffold clamps

2.0 ADDITIONAL PRECAUTIONS:

2.1 Planning of site operations should take sufficient account of risks to soil, trees, or plant with booms, jibs or overweights (including drilling & piling rigs) in order that they can operate without coming into contact with retained trees. The level or traverse of plant in proximity to trees shall be controlled under supervision of a bailiwick to ensure adequate clearance from trees to a minimum of all times. Access to the RPA shall be agreed with the project arboricultural and local authority should be undertaken where necessary to maintain clearance. BS 5837:2012 to be followed by a Tree Characteristics Data or other a Conservation Area will need approval by the local authority.

2.2 Any materials where substantial damage would occur damage to a tree should be stored and handled well away from the outer edge of its RPA e.g. concrete masonry, dust or all vehicle machinery. Alternatively it should be made for taking ground to avoid damaging materials running towards retained trees.

2.3 Trees on sites should be avoided. Where they are unavoidable, they should not be left in a position where they could affect drainage or be struck. The potential size of the root and wind direction should be taken into account when determining its location, and should be addressed at all times until safe to leave.

2.4 Trees are not to be used as anchorages for equipment, or for other purposes. Notice boards, telephone cables, or other services should not be attached to any part of the tree.

2.5 The changing of soil or rubble, placing of temporary accommodation and storage of materials within the red protection area is prohibited.

2.6 The change of ground level, excavating, stripping or disturbing topsoil within the RPA is prohibited.

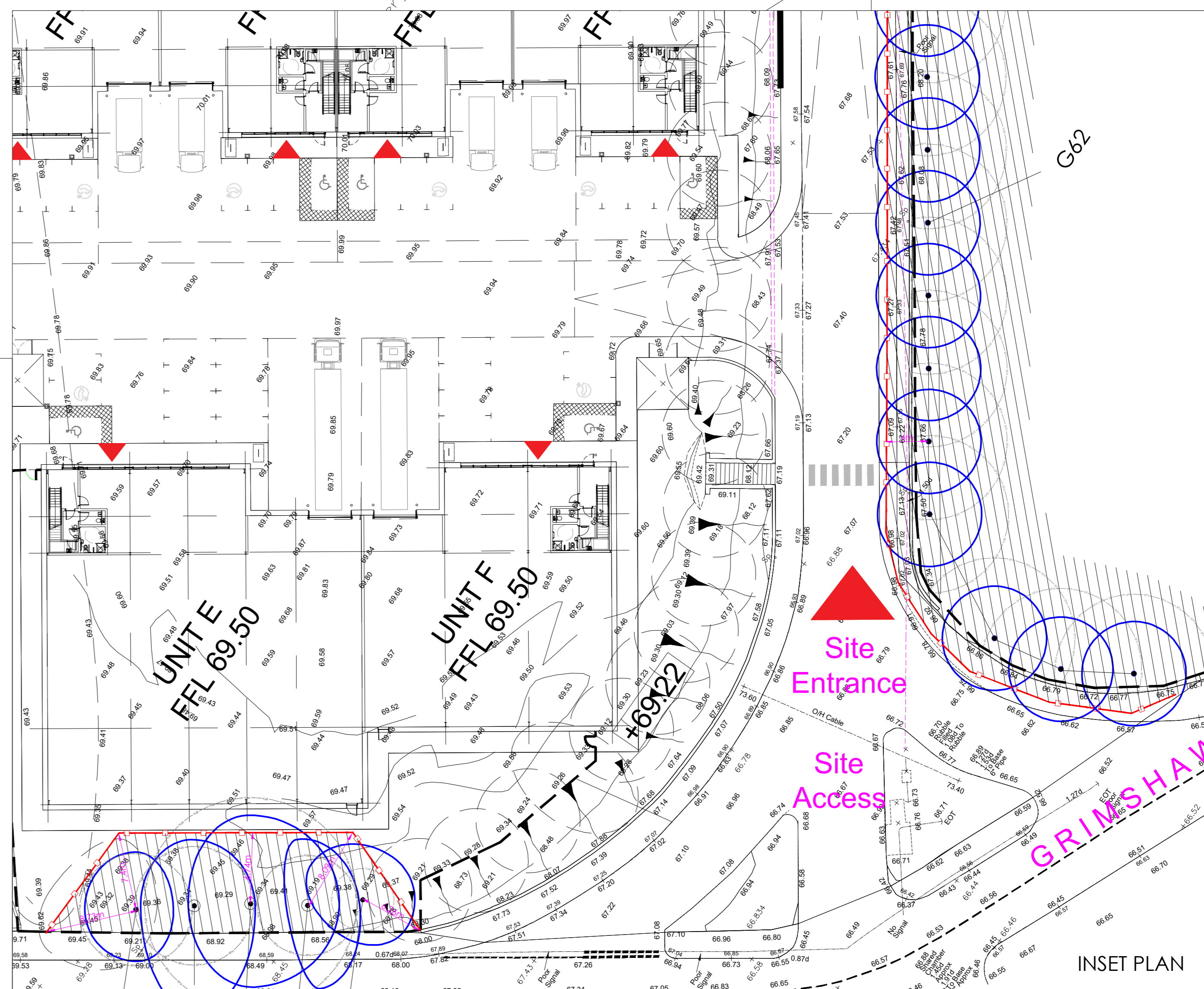
3.0 GROUND PROTECTION DURING DEMOLITION & CONSTRUCTION

3.1 Where construction working space or temporary construction access is specified within the RPA, this should be installed by a method in the alignment of the tree protection barrier in such areas, suitable existing hard surfacing that is not proposed for reuse as part of the retained design should be retained to an temporary ground protection during construction, rather than being removed during demolition. The suitability of such surfacing for the purpose should be evaluated by the project arboricultural and an engineer as appropriate.

3.2 Where the setback of the tree protection barrier exposes unmade ground to construction damage, new temporary ground protection should be installed as part of the retention of physical tree protection measures prior to work starting on site.

3.3 New temporary ground protection should be capable of supporting any traffic entering or using the site without being distorted or causing compaction of underlying soil, for example:

- a) for pedestrian movements only, a single thickness of scaffold boards placed either on top of a driven scaffold frame, or as to form a suspended walkway, or on top of a compression-resistant layer (e.g. 100 mm depth of geotextile, laid onto a geotextile membrane).
- b) for pedestrian suspended (not on) a gross weight of 2.1 person weight, an alternative system (e.g. proprietary systems or precast reinforced concrete slabs) to an engineering specification designed in consultation with arboricultural advice, in accordance with the loading to which it will be subjected. If necessary sand should be laid on the ground as a compression layer.



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client:
CANMOOR

project:
GRIMSHAW LANE,
MANCHESTER

title:
TREE PROTECTION PLAN

status:
PLANNING

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scale: 1:500
drawn: E.C.H.
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