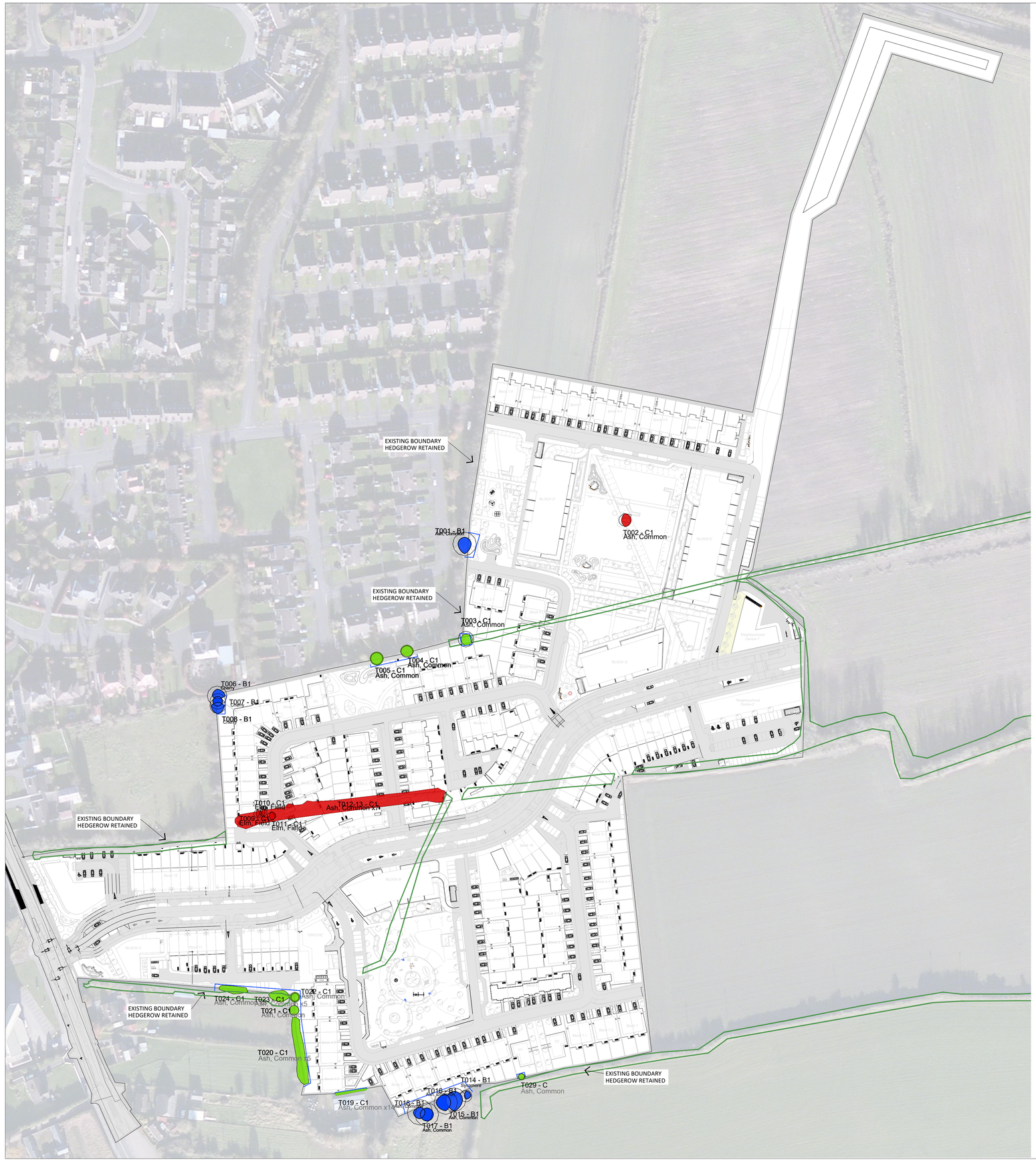


DEVELOPMENT IMPACT PLAN KEY

- Application Site Boundary
- Outline plan of roads, dwellings and other built elements that form the key elements of the proposed planning application
- 45 — Canopy spread of Existing Trees subject to Tree Preservation Order to be retained and protected in accordance with *BS 5837:2012 Trees in relation to Design, Demolition and Construction. Recommendations*
- 45 — Tree Protection Zone as defined in accordance with *BS 5837:2012 Trees in relation to Design, Demolition and Construction. Recommendations*
- Existing Hedgerow
- Category B - Trees of moderate quality
- Category C - Trees of Low quality — T002 - C1 Ash, Common
- Remove to facilitate development — T002 - C1 Ash, Common
- Proposed Tree Protection Fencing: 2.3m high comprising a vertical and horizontal framework of scaffolding, well braced to resist impacts and securely supporting weldmesh panels, (as per in Figure 2 and Figure 3 of BS5837:2012) shall be erected around the base of all trees to be retained on site. Verticals positioned no more than 3.0m apart, driven into the ground approximately 0.6m and fixed to weldmesh panels in a manner to avoid easy removal. Notices to be erected on barrier with words "CONSTRUCTION EXCLUSION ZONE - KEEP OUT" upon fencing. See Figure 1

Tree protection fencing will be erected at a distance from the tree that is either the outermost limit of the branch spread plus 1 metre or as per recommendations given in BS 5837: 2012 Table 2 or as shown on this drawing.

No activities associated with building operations will take place within the area(s) delineated by the tree protection fencing. Within the fenced area there will be no alteration in ground level, no storage of materials, temporary structures or concrete mixing and no material likely to be injurious to a tree will be stacked or discharged within 10 metres of a tree. No fire will be lit within 10 metres of the outside of the crown spread of retained trees.

In areas where the site is sloping, potentially contaminated materials will be located where there is no risk of contamination to the protected area.

All means of protection will remain in situ for the duration of construction works.

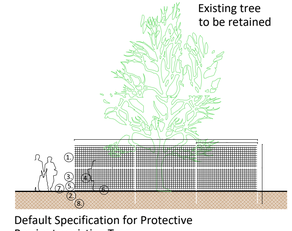
TREE PROTECTION MEASURES
A protective barrier, 2.3m high and comprising a vertical and horizontal framework of scaffolding, well braced to resist impacts and securely supporting weldmesh panels, (as BS5837:2012) shall be erected around the base of all trees to be retained on site.

No construction traffic, fire, materials or debris will be permitted within this zone of protection.

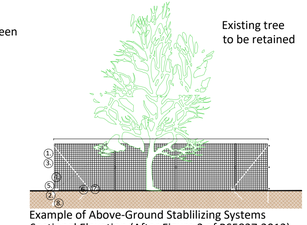
SCAFFOLDING WITHIN ZONE OF PROTECTION
Where scaffolding is to be established within the 'zone of protection' surrounding retained trees, the existing undisturbed ground surfaces will be protected by a layer of sharp sand, approx. 50 mm thick, overlaid with a geotextile membrane. Stout planks, such as closely side-butted scaffold boards, will be laid over the geotextile membrane and scaffolding will be constructed on these planks (as BS5837:2012). Additional stays, as directed by a competent person, will be considered where scaffolding is constructed on suspect or un-consolidated ground. Adequate protective fencing, as BS5837:2012, will be maintained between scaffolding and adjacent trees.

① Standard Scaffold Poles
② Uprights to be driven into the ground
③ Panels secured to uprights with wire ties and where necessary standard scaffold clamps
④ Weldmesh wired to the uprights and horizontals
⑤ Standard Clamps
⑥ Wire twisted & secured on inside face of fencing to avoid easy dismantling
⑦ Ground level
⑧ Approx. 0.6m driven into the ground

FIGURE 1. Tree Protection Fences based on Figures 2 and 3 as per BS 5837:2012



Default Specification for Protective Barrier to existing Trees
Sectional Elevation (After Figure 2 of BS5837:2012)



Example of Above-Ground Stabilizing Systems
Sectional Elevation (After Figure 3 of BS5837:2012)

NOTES

All numbers within the tree canopies correspond to the Tree Survey and Condition Information within the Tree Survey Report by Mr A. Boe which was originally undertaken in October 2019. For detailed assessment of height and branch spread (canopy) of each tree or woodland group, please refer to theTree Survey Report.

Removed:
- Tree Nos. 02, 09, 10, 11, 12 and 13 noted as trees of low quality/Category C to be removed to facilitate development.

Retained:
- Tree Nos. 01, 06, 07, 08, 14, 15, 16, 17 and 18 noted as trees of moderate quality/Category B to be retained.
- Tree Nos. 03, 04, 05, 19, 20, 21, 22, 23, 24 and 29 noted as trees of low quality/Category C to be retained.

Construction Notes

Excavation will be carried out using non-mechanised hand tools only and during excavation, care will be taken to minimise damage to roots of trees to be retained. No excavated areas are to remain exposed for extended periods or overnight.

Any roots uncovered during excavations which are in excess of 2.5cm diameter will be retained and treated in accordance with *BS 3998 Tree Work - Recommendations.* Any tree roots exposed which are in excess of 5 cm diameter will be surrounded in sharp sand before replacing soil or other material in the vicinity.

Any hard surfaces close to trees will be laid in accordance with the recommendations in Section 11 of BS 5837 and in accordance with an Arboriculture Method Statement.

All arboricultural work shall be carried out in accordance with the approved details, BS3998:1989 Recommendations for Tree Work (or appropriate BS) by a competent Tree Surgeon, preferably an Arboricultural Association approved contractor. The works may be carried out before the erection of tree protection barriers with the agreement of the Department with tree protection zones being observed with regards to the trafficking of vehicles and ground protection put in place as necessary before the tree works commence.

0 10 20 30 40 50m

SITE LAYOUT UPDATED	CT / AB	07.06.21	A
Revision Details	**By / Check**	**Date**	**Rev**

Status: PLANNING

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Client : Steinfort Investments Fund

Project: Residential Development
Clonminch Road, Tullamore, Co.Offaly

Title: Development Impact Plan

Scale@A1: 1:1250 **Date:** February 2021

Dwg.no: 6473-L-302