

**Existing Tree Protection General Recommendations**

The retained trees on site will need to be adequately protected during any approved development works. As a general rule of thumb, measures to protect trees should follow the best practice principles set out in BS5837: Trees in Relation to Design, Development and Construction (2012). Prior to any construction or development work proceeding, the RPA's of individual trees to be retained should be marked out using the distances stated. Marking out should be completed by a person with arboricultural or horticultural expertise as individual trees will have root zones that may be affected by local conditions and allowances will need to be made to accommodate this. The best practice principles have been broadly summarised below:

- All trees retained adjacent to the site should be protected by barriers or ground protection around the calculated Root Protection Area (RPA).
- Any fencing required should be erected prior to commencement of construction and before demolition including erection of any temporary structures. Once set up fences should not be removed or altered without prior consultation with the arboricultural advisor.
- Arrangements should be made for an arboriculturist to supervise works and tree protection where trees are particularly vulnerable or sited close to access points.
- Pre-development works may be undertaken prior to the installation of fencing with the agreement of the local planning authority.
- All tree works should follow best practice procedures as set out in BS 3998 (2010). All trees should be maintained in good condition on site and be inspected annually (where overall condition requires) or every 2 years and after any major storm events, with safety a priority. Fencing should be clearly visible and suitable for the location, type and proximity of construction activity.
- It may be appropriate on some sites to use temporary site offices as components of the protection barriers.
- Where it has been agreed and shown on a Tree Protection Plan, construction access may take place within the RPA if suitable ground protection measures are in place (e.g. existing surfaced car park areas). In other areas this may comprise single scaffold boards over a compressible layer laid onto geo-textile materials for pedestrian movements. Vehicular movements over the RPA will require the calculation of expected loading and may require the use of proprietary protection systems.
- Once areas around trees have been protected by fencing, any works on the remaining site area may be commenced providing activities do not impinge on protected areas. Notices should be placed on fencing to indicate that operations are not permitted within the fenced area.
- Wide or tall loads etc. should not come into contact with retained trees. Banksman should supervise transit of vehicles, jibs, booms etc. where this is in close proximity to retained trees.
- Oil, bitumen, cement or other material that is potentially injurious to trees should not be stacked or discharged within 10m of a tree bole. No concrete mixing should be done within 10m of a tree. Allowance should be made for the slope of ground to prevent materials running towards the tree.
- No fires will be lit where flames are anticipated to extend to within 5m of tree foliage, branches or trunk, taking into consideration wind direction and size of fire.
- Notice boards, telephone cables or other services should not be attached to any part of a retained tree.
- Where it is deemed necessary to operate a wide or tall load, plant bearing booms, jibs and counterweights or other such equipment, as part of construction works, and such equipment would have potential to cause injurious contact with crown material i.e. low branches and limbs, of retained trees within the RPA fencing, it is best advised that appropriate, but limited tree surgery, be carried out beforehand to remove any obvious problem branches. This is classed as "Facilitation Pruning" within BS 5837 (2012). Any such pruning should be undertaken in accordance with a specification prepared by an arboriculturist.
- It is advised that a Pre-Commencement Site Meeting is held with contractors who are responsible for operating machinery, as described above, to firstly highlight the potential for damage occurring to tree crowns and to ensure that extra care is applied when manoeuvring machinery during such operations within close proximity to retained trees to avoid any contact.
- In the event of having caused any such branch or limb damage to retained trees it is strongly recommended that suitable tree surgery be carried out, in accordance with BS 3998 (2010)

**LEGEND**

**EXTERNAL HARD SURFACE FINISHES**

- Tarmacadam surface
- Permeable block paving
- Paving Slabs

**SOFT LANDSCAPING**

- Existing trees to be retained
- Existing Hedges to be retained
- Lawned / Grassed Areas (See description)
- Proposed Trees (See description)
- Proposed Hedges (See description)
- Proposed Shrub planting (See description)
- 1.8m High Close Boarded Timber Fencing

**Landscaping Key**

Trees - 12/14 cms girth - 2.5-3.0m in height, container grown - March to September

- (B) 3 x B - Betula pendula-b.r. (Silver birch)
- (Pa) 2 x Pa - Prunus avium-b.r. (Wild Cherry)
- (Ps) 2 x Ps - Prunus serotina-b.r. (Birch Bark Cherry)

Shrubs & Bushes growing in direct vicinity of the building are to be low level so not to block sunlight into dwellings (0.5 to 1.0m in height over a 5 year period).

Shrubs which are placed around landscaped areas are to be a medium height to define areas and boundaries appropriately and will be of medium height (1-2m over 5 years).

Shrubs - 2/3L container grown, Density @ 3no per m<sup>2</sup> in a double staggered row

- (1) Philadelphus Coronaries 'Aureus'
- (2) Spiraea 'Goldflame'
- (3) Hypericum 'Hidcote'

All grassed areas to be seeded with a mix of meadow Grass (Poa sp) and Ryegrass (Lolium perenne) to compliment existing grass species.

**Native Infill and new Hedging: 40/90cms, Density @ 7no per linear metre, bare root - November to March**

Mix of Crataegus monogyna-b.r. (Hawthorn) and Hedera helix (Ivy) - b.r. to be protected by a 60cm spiral guard with no holes supported by a 10cm cane, to compliment existing hedges noted in Scarborough Nixon ecology report.

b.r. - bare root  
c.g. - container grown

**Landscaping General Notes**

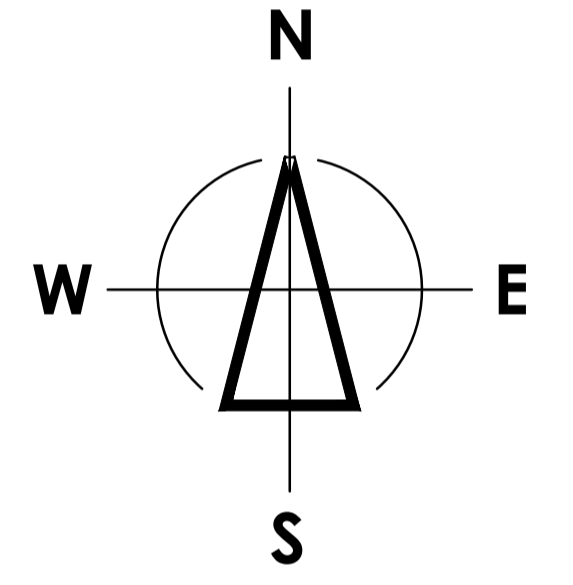
All planting shall be in accordance with BS 4428 Code of Practice for "General Landscape Operations" and BS 4043 "Recommendations for transplanting rootballed trees".

New trees are to be planted during the dormant season as good quality root balled or container grown trees, sized 2.5 - 3 metres, staked for support in accordance with best practice; a biodegradable mulch mat of minimum 50 x 50cms size to be pegged in place to control weeds. All competing weeds to shrubs are to be controlled by periodic application of Glyphosate herbicide.

The proposed new trees have been selected as appropriate species bearing in mind the nature of the site, the mature size, available space and to provide maximum benefit both to amenity and wildlife.

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Rev	Description	Date



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Client	Thorpe Park Investments
Project	New Dwelling Land at Butt Lane/Swinberby Road Norton Disney, Lincolnshire
Drawing	Proposed Hard & Soft Landscaping Plan
Scale	1:100 @ A1 (or) 1:200 @ A3
Drawn by	CAH
Checked by	-
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