



HEDGE
Plant of 4 plants per linear metre in double staggered row 300mm apart

%	Species	Type	Root	Size (mm)
100	Fagus sylvatica	n/a	B	450-600

INDIVIDUAL TREES

	Species	Type	Root	Girth (cm)
T1	Acer campestre	Standard	B	8-10
T2	Carpinus betulus	Standard	B	8-10
T3	Betula pendula	Standard	B	8-10
T4	Pinus sylvestris	Standard	B	8-10
T5	Prunus avium	Standard	B	8-10
T6	Prunus colleyana	Standard	B	8-10
T7	Quercus robur	Standard	B	8-10

MIX A

Type	Site: all to be 3 Lite
<ul style="list-style-type: none"> Cornus alba Elaeagnus radicans Hebe x exoniensis Hebe 'Autumn glory' Ilex aquifolium Lonicera pileata Ligustrum vulgare Pinus mugo 'Mughus' 	<ul style="list-style-type: none"> Plant in groups of 3/4 of same species in irregular layout at 4 plants per sqm. Planted areas to receive 50mm bark chippings after planting. Following establishment, plants should be trimmed to provide an overall formal shape.

MIX B

Type	Site: all to be 3 Lite
<ul style="list-style-type: none"> Cotoneaster sal. 'Autumn fire' Escallonia 'Donard Seedling' Hebe obtusifolia Hebe 'Mrs Winder' Lonicera pileata Pyracantha coccinea Rosa glauca Sarcococca confusa Viburnum tinus 	<ul style="list-style-type: none"> Plant in groups of 3/4 of same species in irregular layout at 4 plants per sqm. Planted areas to receive 50mm bark chippings after planting. Following establishment, plants should be trimmed to provide an overall formal shape.

MAINTENANCE SCHEDULE

Task	Time of Year	Frequency
Inspection of mature trees	March-September	Annually
Selective felling of over mature/declining species	October to February	As required
New planting to broaden/ supplement diversity of free stock	October to March	Annually
Other works- removal of debris trapped in branches etc.	As necessary	Annually
Removal of self set seedlings	January	Annually
Selective thinning and pruning to be undertaken to ensure there is sufficient light through the tree canopy	As necessary	As required

HEDGES

Task	Time of Year	Frequency
Trimming	April to October	5 times
Reshaping	Hard prune Oct-Feb	Annually
Chemical weed control along base	In winter and summer only when other methods have failed	Annually
New Planting	October-March	Annually
Litter/Debris	Throughout	Daily
Watering	As necessary, depending on weather	

AMENITY GRASS

Task	Time of Year	Frequency
Eroded areas: repair, rotovate to 150mm, 100mm topsoil if required, seed with BS1 mix 19	May-September	As required
Litter/debris removal	Throughout	Daily
Gross cut, leave strippings, trim edges and collect trimmings	April-October	Every 2 weeks
Fertiliser-Spring	April	Annually
Fertiliser-Autumn	October	Annually
Scarification	March	Annually
Spiking	Autumn	Twice Annually
Reforming of edges to paths and planting	Autumn	Annually

PLANTING SPECIFICATION

All planting stock to shall comply with the requirements of BS 3938, and shall be healthy with a strong root system. The native plants are to be of local provenance and well established. Trees and shrubs should be handled and transported in accordance with relevant codes of practice.

- Prevent drying of roots. Heel the trees in or, for short periods of storage put them in a plastic bag. Keep shaded and away from the wind.
- Keep as much fibrous root on the trees and possible.
- Avoid damaging the roots. Dressing the stem tops or stepping back the ballroom stems or roots.
- Prevent excessive heeling.

ADDITIONAL TOPSOIL to be supplied where required, and to comply to BS 3882. To be 150mm deep for grassed areas and 300mm deep for hedges and shrubs.

TREE PLANTING:

Plant from late October to early March. If planted in late spring or early summer, plants should be watered during dry spells for the first growing season. Avoid planting in frosty, cold or windy, hot, sunny or drying conditions. Choose planting sites weather when possible. Tree pits should be 150mm deep. Planted in pits at least 150mm greater than the diameter of the root ball. The soil should be broken below the pit by at least 200mm. The pit should be filled and heeled in. The trees should be protected by plastic tree protection tubes and supported by soft wood (75-100mm in diameter) timber stakes not more than 1/3 of the trees height. The stakes should be located on the windward side of the tree and attached to expandable rubber ties.

HEDGE PLANTING:

Plant from late October to late March. Topsoil to be supplied to all areas of hedging to a depth of 300mm and to comply to BS 3882. All planting operations shall be carried out with British Standard 4482. Planting pits are to be dug in excess of the roots to allow the roots to spread out in the pit. All plants to be planted at their natural depth as they are in the nursery. Excavate 300mm deep, and break up the base of the planting bed. Provide one top 300mm of topsoil in accordance with BS 3882. Cultivate to this depth and incorporate 100mm of well-rotted farmyard manure or approved compost. Planting beds to be mulched with 50mm of bark chippings after planting.

SHrub PLANTING:

Planted from October to early March. All individual weeds are to be eradicated. Excavate 300mm deep and break up base of planting bed. Provide 300mm deep topsoil and approved compost to BS 3882. Planting pits are to be dug in excess of the roots to allow the roots to spread out in the pit. All plants to be planted at their natural depth as they are in the nursery. Planting beds to be mulched with 50mm of bark chippings after planting.

EXISTING TREES

REMOVAL:

- Any trees to be removed shall be removed in a safe and appropriate manner, adhering to relevant British Standards. The contractor shall:
 - 1) Locate the selected trees to be removed and verify by marking each tree
 - 2) No tree shall be removed in a manner that compromises safety. When work is being performed, all safety precautions shall be in place to protect the operation and the general public.
 - 3) The Contractor shall plan and prepare for the use and positioning of equipment so as to accommodate the safe effective and efficient removal of trees. Whenever any tree or branch sections of a tree, being removed may endanger people or property, the Contractor shall ensure that an appropriate area is cordoned off with tape or rope and clearly marked to prohibit the public or other unauthorised persons from entering.
 - 4) The trees will be removed in the most safe and appropriate method.
 - Clear and unobstructed fall. Careful felling and control of removal of the complete tree to ground level in one operation leaving the tree structure intact. The Contractor shall be fully responsible for any debris which falls as a result of the wrong tree being felled or as a result of clear felling work.
 - Sectional felling method. Where needed, the Contractor shall fell the tree in sectional felling sections, ensuring that the tree is removed in a controlled fashion, either by the use of ropes, limiting sections which are no larger than can be controlled without causing damage, or by the use of appropriate methods.
 - 5) The trees will be removed in the most safe and appropriate method.
 - Stump removal via root guzzling. Guzzling shall consist of the complete removal of the tree stump and roots to level machine excavation or other means. All stumps shall be removed from site or disposed of.
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 - 6) The Contractor shall locate the removal face to the rear of the surrounding ground surface, with improved top soil which complies with the appropriate British Standards. The contractor shall remove stumps from site in a appropriate and safe manner, and all debris shall be cleaned up and removed.

PROTECTION

Trees greatly complement the built environment, but can be easily injured during the development process. BS 3837:2012 Trees in Relation to Design, Demolition and Construction offers detailed guidance on the protection of trees during development and construction and includes minimum dimensions of zones of protection, and the avoidance of damage through storage of harmful substances or the lighting of fires near trees.

Trees are vulnerable in many ways during construction, and including:

- Physical damage by the lowering of levels of trenching for services.
- Compaction of soil systems by the passage of vehicles or equipment or storage of materials.
- Tree effects from spillage of fuels, lubricants or other chemicals.
- Fire damage.

ESTABLISHMENT AND MAINTENANCE OF PROTECTION ZONES

LIMITS:

- Direct barriers to establish zones before materials or machinery are brought on site or building work begins, including erection of all full.
- Barriers are not to be removed or altered without prior consultation with an arborist.
- Barriers should remain in place until construction work are completed and full.

TREE PROTECTION BARBER SPECIFICATION

- Barriers shall be for the purpose of excluding construction activity.
- In most cases, barriers shall comprise welded-pointed certified using wire or scaffold clamped to well-secured framework of vertical and horizontal scaffold poles.
- On some sites it may be appropriate to use temporary site office buildings or containers beneath the barriers will be left undisturbed and protected by galvanneal fabric.
- Barriers shall be erected on the barriers with gaps such as "Construction exclusion zone - keep out".

SCAFFOLDING WITHIN PROTECTED AREAS

- If it is essential for scaffolding to be erected in protected areas, barriers on per section above will be erected to provide sufficient space for the scaffolding. The ground in between the barriers and the building should be protected by boarding up to create boards for protection, or, more substantial boarding for heavier traffic.
- Scaffolding shall be erected on the barriers with gaps such as "Construction exclusion zone - keep out".
- If necessary, shop signs will be laid on the fabric, to level the ground.
- Boarding will be left in place until building work is completed.

STORAGE OF OIL, FUELS, MATERIALS & MACHINERY

- No storage of oil, fuels, materials or machinery shall be stored in the protected zone (the barriers and the barriers), also taking account of any slope to avoid the harmful effects of runoff.
- No trees to be in a position where flames could extend to within 5m of foliage or bark taking into account wind direction and strength.

SERVICES

- Services must be routed within the protection zone, consider the use of trunk boxing techniques, or digging and trenching to route.
- In routing either of the above, work will be a minimum of 1 metre from the tree and of a minimum depth of 750mm.
- The National Joint Utilities Group (NJJUG) 100mm depth standard applies to the installation of services near to trees. Methods are to be agreed in advance of commencing any work.

TREE STUMP REMOVAL

- To prevent damage to remaining root systems stumps of trees to be removed shall not be winched or dug out but chipped to an appropriate size during grubbing.

MACHINERY AND EQUIPMENT

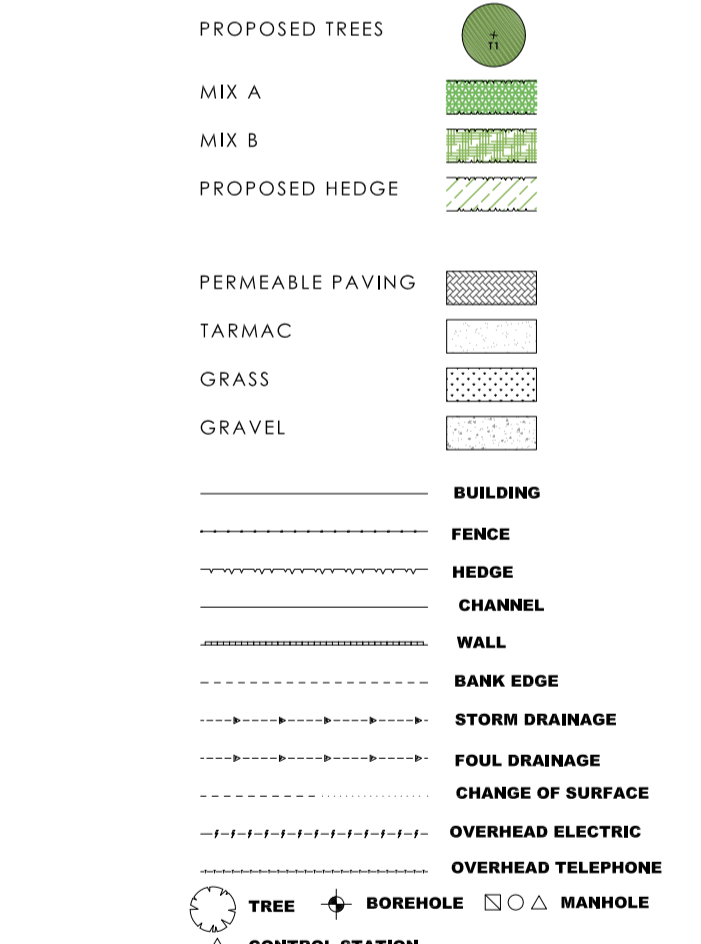
- Care shall be taken of all trees to avoid any equipment striking the tree trunk, branches or foliage.
- Protective cover is required with delivery vehicles, overhead cranes and excavators.
- Protected trees should not be used as anchorages for vehicles or other equipment, recommendations in BS 3938.

BRIBING

- All staff and contractors shall be briefed prior to commencing work on the importance of observing the above requirements, and the suitability of trees to be damaged during construction.

REFERENCES:

- BS 3837:2012 Code of practice for general landscape operations
- BS 3938:2010 Tree Work Recommendations
- BS 3837:2012 Trees in Relation to Design, Demolition and Construction



REV B REQUIRE AMENDED 26.02.2019

REV A REQUIRE AMENDED 21.01.2019

DRAWING ISSUES AND REVISIONS

17 Vectors Layer | South | Uncoloured | UNIT 197

ldc LINCOLN DESIGN CONSULTANCY

PROJECT | Hillcrest Park Rural Enterprise Development Caistor Top

DATE | March 2016

TITLE | PROPOSED SITE PLAN

SCALE | 1:200

ORIGINAL SIZE | A1

DRAWING NUMBER | LDC2450-01B