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- Planting Plan Key:**
- Site Boundary
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 - Existing trees and hedgerow to be removed.
 - Proposed ornamental planting on 400mm depth of topsoil with 75mm bark mulch.
 - Proposed climbers with climber wires on 400mm depth of topsoil with 75mm bark mulch.
 - Proposed native tree planting, tree pit and stake as detailed in the specification.
 - Small ornamental tree/ large shrub planting, tree pit and stake as detailed in the specification.
 - Proposed mixed native hedgerow planted in a double staggered row at 0.4m centres. Bare root transplants with 60cm rabbit guards.
 - Proposed single species hedgerow planted in a double staggered row at 0.4m centres. Bare root transplants with 60cm rabbit guards.
 - Front gardens to be turfed on 150mm topsoil.
 - Public open space to be sown with Geminal AberSustain mix, or similar approved, to be sown at a rate of 40kg/m2 on 150mm topsoil.
 - Native tree / shrub planting to be planted as 60-80cm whip plantings at 0.7m centres, for additional wildlife habitat.
 - Grassland to public open space to be retained and overseeded with Geminal AberSustain mix, or similar approved, to be sown at a rate of 20kg/m2.
 - Public open space to be sown with Geminal Eco Species Rich Lawn mix, or similar approved, to be sown at a rate of 10kg/m2 on 150mm topsoil.

REV	DESCRIPTION	DATE
A	Updated to layout "...rev K"	25/08/21
B	Removal of proposed woodland mix	28/09/21
C	Amendments based on Tree Officer's comments	21/10/21
D	Updated to layout "...rev O"	01/03/22
E	Updated to layout "...rev Q"	06/07/22
F	Updated to layout "...rev T"	11/01/23

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 t: 0845 463 4404
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CLIENT: Castle Green Homes
 PROJECT: Tan Y Bont, Main Road, Rhosbryn, Wrexham
 DRAWING TITLE: Planting Plan (Sheet 1 of 9)
 SCALE: 1:200 @ A0 DRAWING No: REV
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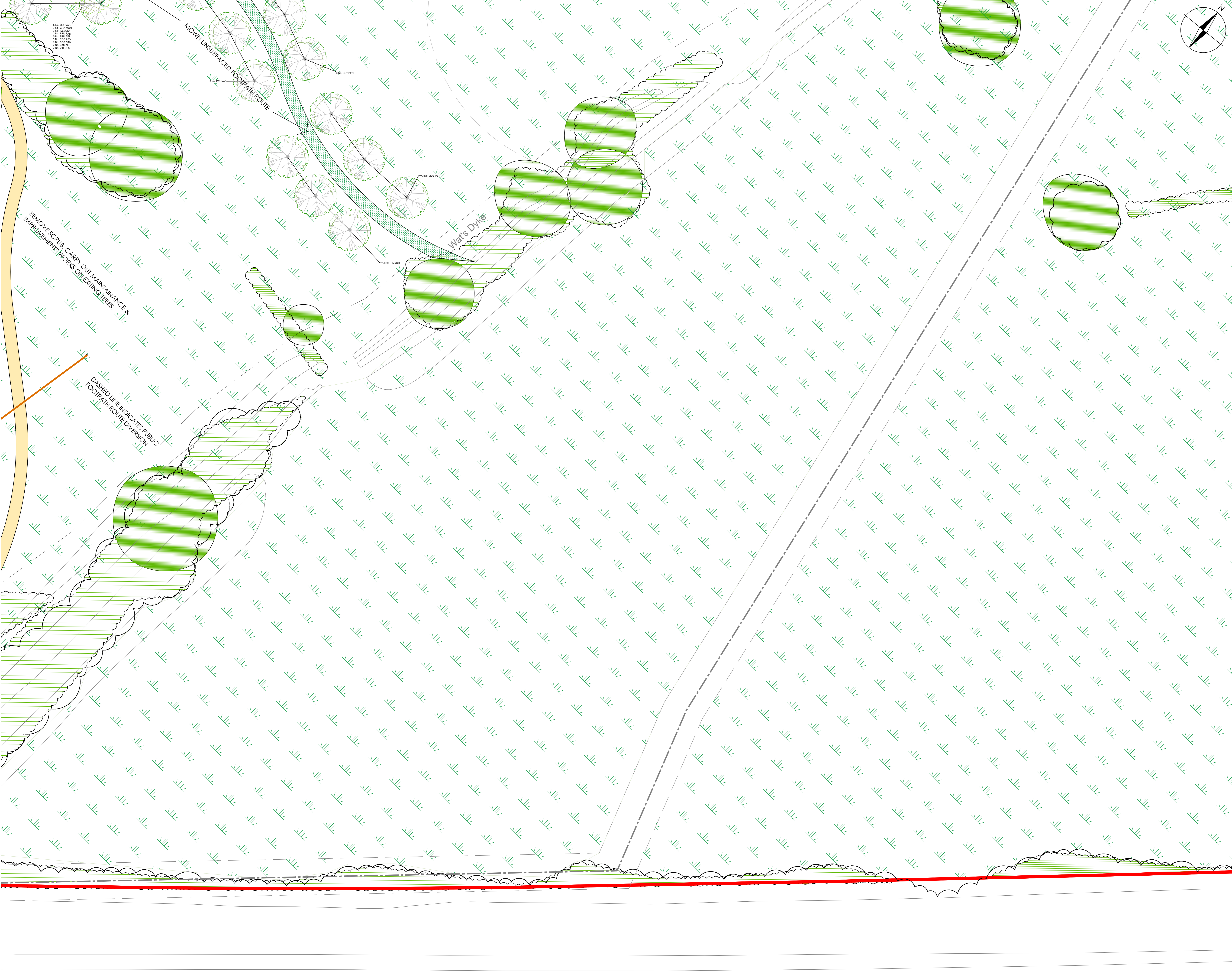
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PROJECT: Tan Y Bont, Main Road, Rhosbrin, Wrexham

DRAWING TITLE: Planting Plan (Sheet 2 of 9)

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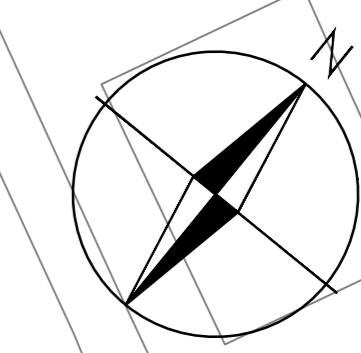
CLIENT: Castle Green Homes
PROJECT: Tan Y Bont, Main Road, Rhosrobin, Wrexham

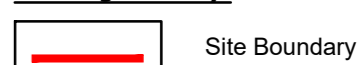
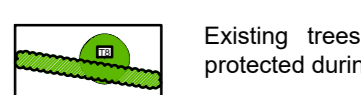
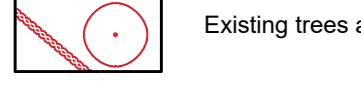

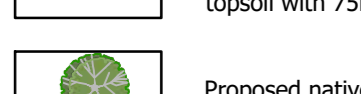
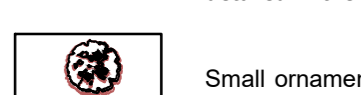
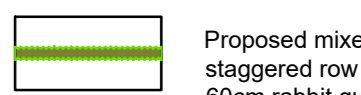
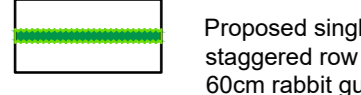

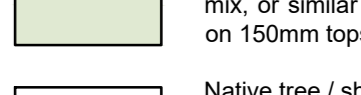

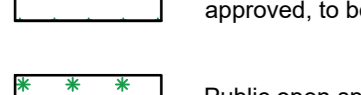
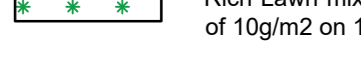

DRAWING TITLE: Planting Plan (Sheet 3 of 9)

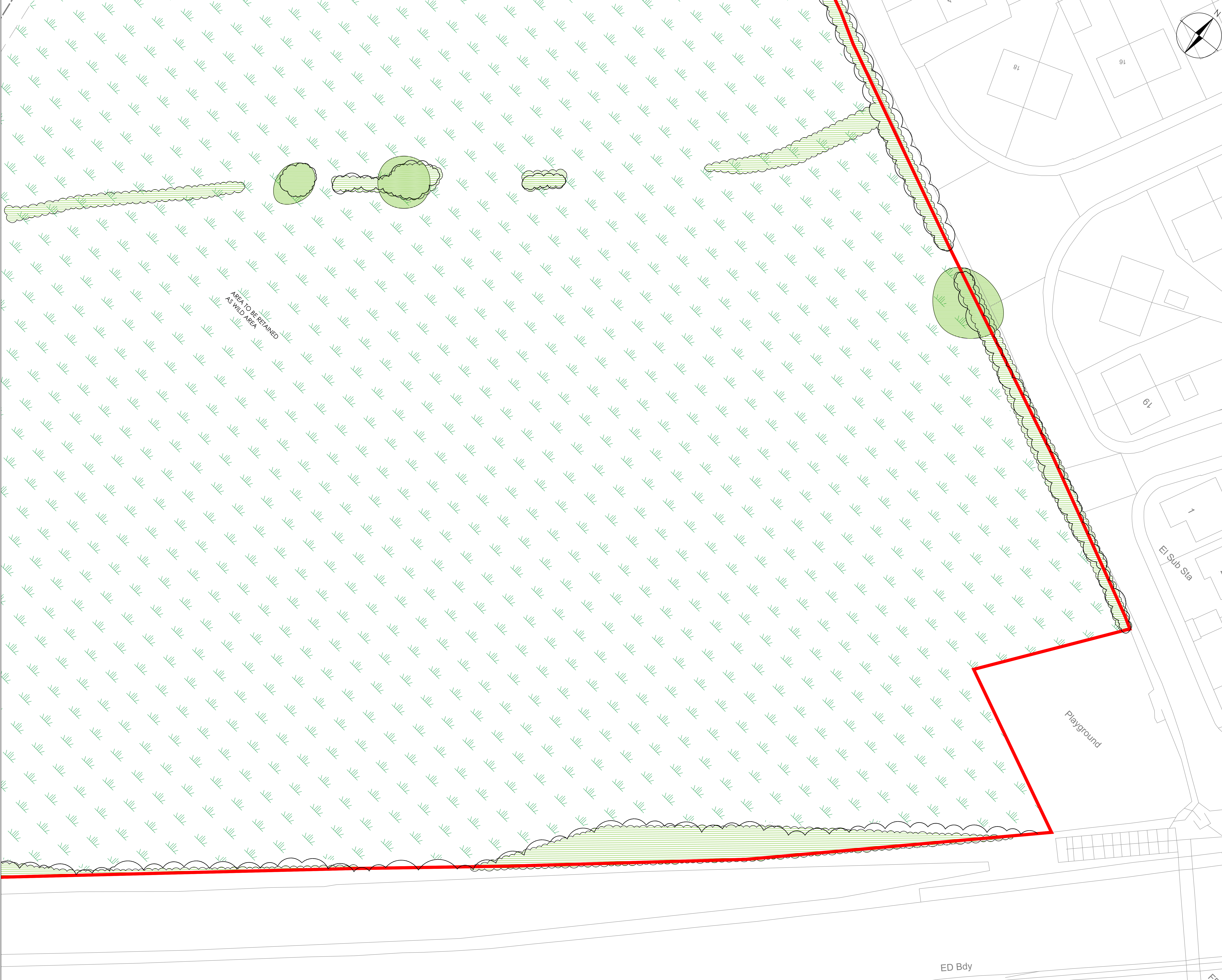
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DRAWN BY: CO CHD BY: CN DATE: 03/02/2021 P: 1421.21.03

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AREA TO BE RETAINED AS WILD AREA

Playground

El Sub Sta

ED Bdy

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 DRAWING TITLE: Planting Plan (Sheet 4 of 9)
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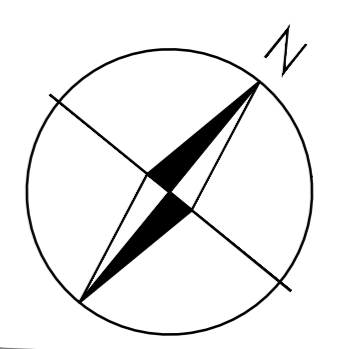
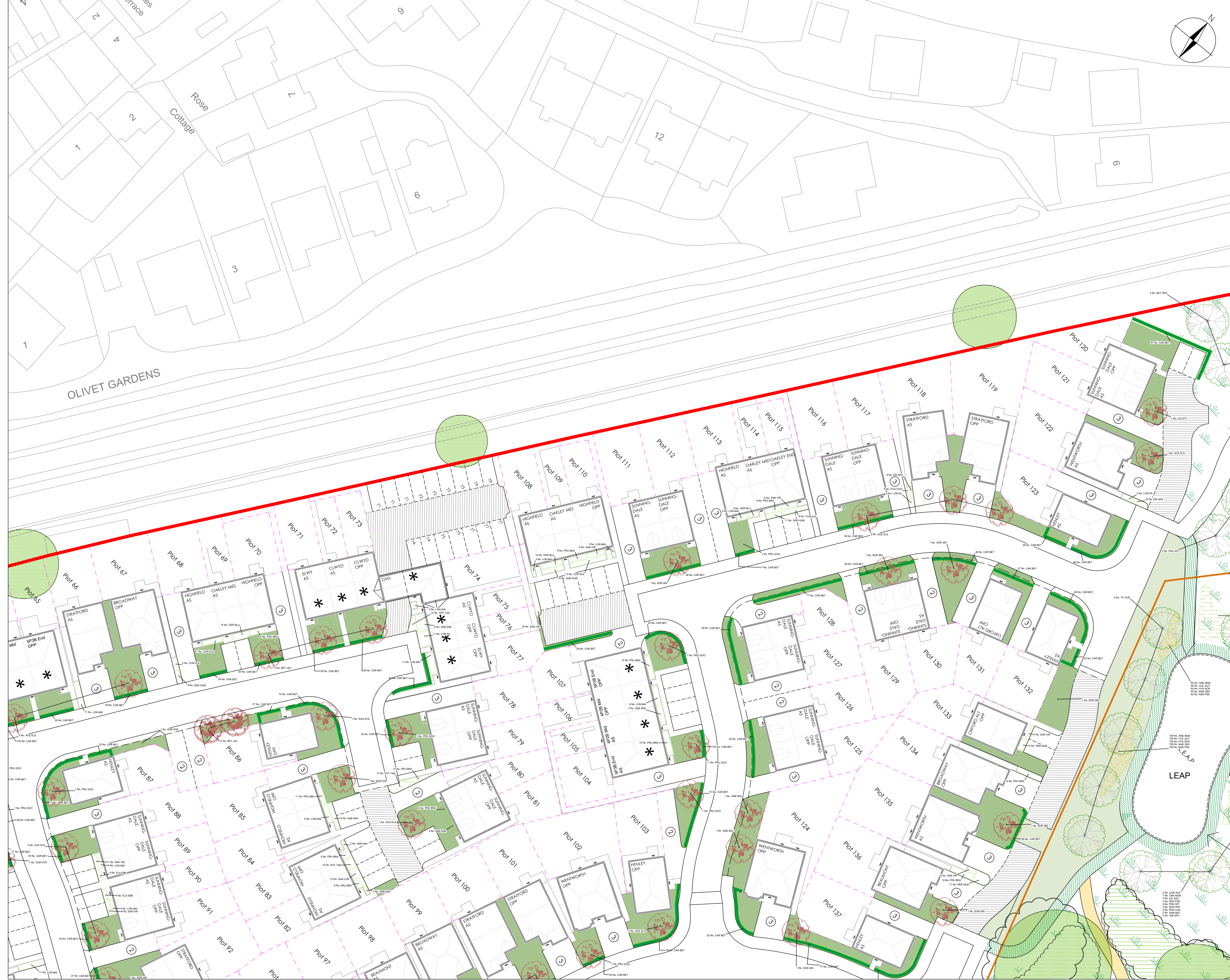


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LANDSCAPE AND MAINTENANCE SPECIFICATION

All operations to comply with appropriate British Standards unless otherwise stated on drawings or in the specification.

GENERAL TREATMENT OF PLANTING AREAS

Ensure that planting areas are protected from consolidation by heavy construction plant.

For work near a retained tree: Refer to BS 5837 *Trees in relation to design, demolition & construction - Recommendations*- Section 9 (Appendix C).

Damage to Plants to be Retained: If a plant is to be retained is damaged, the plant is to be repaired or replaced by the contractor at their own expense. "Damaged" means:

- The destruction of a plant the breaking of branches or roots
- The debarking of trunks or limbs
- The contamination of root zone soil or plants from drift sprays, dust or contaminated storm water
- The damage by the placement of fill or building materials within the canopy perimeter or otherwise.

1) GROUND PREPARATION AND SOIL SPECIFICATION

Subsoil:

Before receiving topsoil, subsoil shall be loosened using appropriate equipment to a depth of 300mm. This shall be done when the subsoil is dry so as to encourage soil shattering. All stones and other objects larger than 50mm shall be removed from the prepared surface. The loosened subsoil shall be roughly levelled so that an even depth of topsoil can be achieved.

Topsoil (To Comply with British Standard 3882:2015 - Specification for Topsoil):

Imported topsoil shall be Multipurpose Grade as described in BS 3882:2015 and suitable for sustaining plant life. Stockpiling of soil shall be avoided whenever possible to minimise loss of physical quality, diffusion of oxygen and biological activity.

Any stockpiling shall not exceed 1.5 metres high and shall be sited so as to avoid risk of muddy water run-off into a watercourse, not exceeding 1.5 metres high.

The site of the stockpile will be prepared in advance by grading, removing rubbish and ensuring no fuel or chemicals were previously stored in area.

Topsoil shall be lightly consolidated in layers not exceeding 150mm using track laying machinery.

Soil shall not be handled in inappropriate conditions of weather and soil moisture i.e.

During or shortly after heavy precipitation

When soil is in a waterlogged condition

When the ground is frozen or covered by snow

When there are pools of water on the grounds surface.

Topsoil shall be laid to the following minimum depths:

150mm below new grass areas

300mm to rear gardens

400mm beneath new shrub areas.

Finished levels, after settlement, shall be as follows:

25mm above adjacent paving from new grassed areas and non-mulched shrub beds

75mm below adjacent paving and grass for mulched planting beds.

150mm below damp proof courses.

2) GROUND CONDITIONING

40 litres of compost to be incorporated into the top 200mm of each square metre of topsoil for all ornamental shrub beds.

3) PLANT AND PLANTING SPECIFICATION

All plant stock, plant handling and planting to be undertaken in accordance with the following British Standard Specifications and Code of Practice:

BS 8545:2014 'Trees: from nursery to independence in the landscape

BS 3936: Part 1 1992 Nursery stock (Specification for trees and shrubs)

BS 3936: Part 4 1984 Nursery stock (Specification for forest trees)

BS 3936: Part 9 1987 Nursery stock (Specification for bulbs, corms and tubers)

BS 3936: Part 10 1980 Nursery stock (Specification for ground cover plants)

BS 4428: 1989 Recommendations for general landscaping operations.

BS 4043: 1989 Recommendations for transplanting root-balled trees. (withdrawn)

The Code of Practice for Plant Handling 1985. (Horticultural Trades Association).

Plant Stock:

Plant stock to be supplied in accordance with the size and description specified ion the plant schedule and position indicated on the most current revision of the planting plan.

Plant stock shall be healthy, vigorous, free from pests and diseases and suitably hardened off for the proposed situation of planting and lifted at a time in accordance with good nursery practice. Stock shall have a well-formed fibrous root system and be free from perennial weeds. The form of trees shall be in accordance with BS 3936: Part 1:1992, Section 7, *Form of Trees*.

Plant Handling:

All plant materials shall be lifted, banded, labelled, packaged, transported, temporarily stored and planted in accordance with the procedures and methods illustrated in the publication, *"Plant Handling"* (Horticultural Trades Association) and relevant sections of BS 4043: 1989 *Transplanting Root-Balled Trees*.

Standard Tree Planting:

Trees to be pit planted following supplier recommendations. Minimum pit size: Standard tree 900 x 900x 750mm / Heavy Standard and Extra Heavy Standard tree 1000 x 1000 x 900mm.

Pits to be prepared to base and sides of pit to be further scarified.

Standard trees to be double staked using two stakes (75mm dia.), driven into ground 300mm below bottom of pit. Base of pit to be filled with 200mm of 3:1 mix of approved topsoil / compost.

Trees to be centrally located and stem placed in an upright position. Pit to be backfilled with a 3:1 mix of an approved topsoil / compost. Backfill firmly to 50mm above previous ground level to allow for settlement. Stakes to be saw leave 600mm above soil level.

Water in same day with 52 litres per tree.

All works shall be carried out to the minimum standard according to BS 3936: 1992 Part 1 Nursery Stock. Specification for Trees and Shrubs. BS 4043: 1989 Recommendations for transplanting root-balled trees.

Staking:

Stake all standard trees with double short stakes, feathered trees with low single stake. Stakes to be round timber with chamfered tops. Position stake close to tree on windward side and drive vertically at least 400mm into bottom of pit before planting. Backfilling: consolidate material around stake. Height of stakes: cut to approximately one third of the tree height above ground level, taking care not to damage the bark. Ties: Heavy. Tying: secure tree firmly but not rigidly to stake with at least 2 ties within 25mm of top of stake.

Mulch:

All shrub beds shall be spread with a medium grade bark mulch to a settled depth of 75mm. Mulch to be free from fines, weeds, disease and contaminants.

Ornamental shrub planting:

To be set out carefully and evenly over indicated areas. Remove plants from pots and plastic containers, plant water in thoroughly. Shrubs shall be individually pit planted in prepared pits sized to accommodate full spread of roots. Plants shall be evenly spaced over the planting area. Firm backfill by treading, ensuring the ground is not overly compacted and that the plant is positioned upright.

Native tree / shrub planting

Bare root stock shall be planted between November and March/April. Consistent in species, cultivar and clone to ensure a uniform hedge. Plants to be planted in groups of 3, 5 or 7 of the same species.

Plants shall be evenly spaced over the planting area. Ensure plants are planted to the correct depth to correspond to the soil mark on main stems. Undertake formative pruning if necessary.

New formal hedges - Double staggered row

Bare root stock shall be planted between November and March/April. Consistent in species, cultivar and clone to ensure a uniform hedge.

To be planted in a previous prepared planting bed 1metre wide. Planted to be centrally in a double row, 400mm between plants and 400mm between rows. Ensure plants are planted to the correct depth to correspond to the soil mark on main stems.

Prune back to a height of 0.6metres.

New mixed native hedges

Bare root stock shall be planted between November and March/April. Consistent in species, cultivar and clone to ensure a uniform hedge. Plants to be planted in groups of 3, 5 or 7 of the same species.

To be planted in a previous prepared planting bed 1metre wide. Planted to be centrally in a double row, 400mm between plants and 400mm between rows. Ensure plants are planted to the correct depth to correspond to the soil mark on main stems.

Prune back to a height of 1.2metres.

Turfed Areas:

To be specified and laid in accordance with BS. 3936:1998 Recommendations for turf for general purposes. Turf to be Lindum Festival Turf (or similar approved). Hardwearing with a dense sward containing a mixture of 25% perennial ryegrass, 55% fescues and 20% smooth stalked meadow grass. This mix is easy to maintain and will recover well from general wear.

Turf to be laid in suitable weather conditions on a prepared bed with no weeds and a suitable slow release fertiliser applied to bed prior to laying. Turf to be watered regularly until it is well established.

Rear gardens:

Subsoil to be prepared to a depth of 300mm as per ground preparation and soil specification.

Topsoil to be supplied as per ground preparation and soil specification to a depth of 300mm, after gentle compaction and to be left bare in rear gardens.

Grass Seeding:

Seed mix shall be Germinai Grade A19 mix, or similar approved. Sowing to be taken between March and October.

Topsoil shall be cultivated to a fine tilth, be free from weeds, stones and other debris. Levels to be graded to form finished levels as indicated in section. 'Topsoil'.

Roll, fertilise at 50gms/sq m, 10-14 days prior to seeding, sow at rate of 40g/m2 and lightly rake. First cut to be undertaken when grass reaches 50mm.

Wildflower Seeding:

Seed mix shall be Germinai WFG20 Eco Species Rich Lawn, or similar approved. Sowing to be taken between March and October.

Topsoil shall be cultivated to a fine tilth, be free from weeds, stones and other debris. Sow at rate of 10 g/m2 and lightly rake. First cut to be undertaken 6 weeks after sowing or when reaches 70-100mm.

Bulbs Planting:

Bulb planting prior to grass seeding. Scatter the bulbs as plan, to an average density to create naturalistic planting. With a bulb planter or trowel plant the bulbs in an upright position, where they fall, to a depth of 3 times the size of the bulb. Cover with soil and firm gently.

Bulb planting after turf installed. Dig planting holes through turf to three times the depth of the bulb. Plant bulbs in an upright position and backfill with topsoil and turf plug previously removed.

Weeding:

A plant that roots directly from its base and has shallow roots is to be removed by hand, by removing the main root system.

A weed that grows from a clumped, fibrous root system is to be removed using the crowning method, by cutting the roots from the crown of the weed.

A large weed infestation is to be removed by spraying an approved chemical directly onto the target infestation.

A plant being a tree or a vine is to be removed using the cut and paint method, by cutting the base of the stem close to the ground and immediately applying herbicide to the cut.

4) MAINTENANCE AND MANAGEMENT

Plant stock and soft landscaped areas shall be maintained for a period of five years via the developers' agent or appointed Management Company during which time the following operations shall be carried out:

Regular visits:

Monthly maintenance visits to include the following operations:

- Hand weed planting beds
- Remove litter
- Sweep mulch spillage
- Re-firming plant stock to ensure the new planting is all planting to upright positions.
- Adjust stakes and ties as necessary
- Prune plant stock as required to encourage good form
- Check all plant stock and report signs of pests, disease, death and damage

Mulch:

Top up mulch levels (using matching material) surrounding trees and within beds to 75mm at the end of the maintenance period.

Watering:

Plant stock to receive the following quantities of water:

Semi-mature trees: 75 litres each month between April and September

Heavy Standard trees: 35 litres each month between April and September

Shrubs and transplants: 5 litres/plant on three occasions throughout growing season.

Watering to be undertaken during the first 24 months as needed to maintain plant health.

Bulb areas in grass:

Bulbs areas to be left uncut during late winter/early spring when bulbs are growing/flowering and for a period 6-8 weeks after flowering to allow bulbs to regain nutrients, after which a normal mowing regime can resume.

Grass Maintenance:

Grass shall be cut throughout the growing season to maintain a sward of approximately 38mm. Shall be edged, watered as necessary and clippings removed.

Wildflower Maintenance:

Wildflower areas shall be cut 2 times a year during the late spring and after the flower season (September / October) to maintain a sward of approximately 40-70mm. The clippings shall be left in situ for 3 days to allow seed drop, then removed to prevent nutrient build up.

WFG20 Eco Species Rich Lawn Maintenance:

Autumn Sown: during the first year: first cut shall be early July, then monthly during August, September and October to maintain a sward of approximately 70-100mm.

Thereafter: shall be cut 2 times a year mid-July to early September to maintain a sward of approximately 70-100mm.

Spring Sown: during the first year: first cut shall be mid-September, then again during October to maintain a sward of approximately 70-100mm.

Thereafter: shall be cut 1 time a year mid-July to early September or as required leaving at least fortnight between cuts to maintain a sward of approximately 70-100mm.

The clippings shall be left in situ for 3 days to allow seed drop, then removed to prevent nutrient build up.

New trees/shrub planting:

Weed control by hand to ensure planting area is weed free. Check stakes and guards are in place and replace where necessary. Prune, thin and remove suckers, seedlings, dead, damaged, or diseased branches annually between October and January to avoid the bird nesting season. Replace dead / dying stock in winter.

Plant replacements:

All dead, dying and vandalised plant stock shall be replaced, at the landscape contractor's expense, at the end of each growing season throughout the maintenance period.

Plant Schedule

Number	Abbreviation	Species	Specification	Height	Girth
4	ACE CAM	Acer campestre	Selected Standard: 4 brks: 2x: RB: Clear Stem min. 200cm	300-350cm	10-12cm
33	ACE ELS	Acer campestre 'Elsrijk'	Selected Standard: 4 brks: 2x: RB: Clear Stem min. 200cm	300-350cm	10-12cm
3	ALN GLU	Ainus glutinosa	Heavy Standard: 5 brks: 3x: RB: Clear Stem min. 200cm	350-425cm	12-14cm
13	AME BAL	Amelanchier 'Ballerina'	Selected Standard: 4 brks: 2x: RB: Clear Stem 175-200cm	300-350cm	10-12cm
18	BET PEN	Betula pendula	Heavy Standard: 5 brks: 3x: RB: Clear Stem 175-200cm	350-425cm	12-14cm
2	BET PEN	Betula pendula	Extra Heavy Standard: 5 brks: 3x: RB: Clear Stem 175-200cm	400-450cm	14-16cm
5	BET JAC	Betula utilis jacquemontii	Selected Standard: 5 brks: 2x: B: Clear Stem 175-200cm	300-350cm	10-12cm
14	CAR BET	Carpinus betulus	Heavy Standard: 5 brks: 3x: RB: Clear Stem 175-200cm	350-425cm	12-14cm
6	CRA PRU	Crataegus x prunifolia	Selected Standard: 4 brks: 2x: RB: Clear Stem 175-200cm	300-350cm	10-12cm
9	FAG SYL	Fagus sylvatica	Large Feathered: 7 brks: 3x: RB	350-425cm	12-14cm
15	LIO STY	Liquidambar styraciflua	Selected Standard: 4 brks: 2x: RB: Clear Stem 175-200cm	300-350cm	10-12cm
6	PIN NIG	Pinus nigra	Leader with Laterals: 5x: RB: Clear Stem 150-175cm	350-400cm	
9	PIN SYL	Pinus sylvestris	Leader with Laterals: Feathered to base: 5x: RB	350-400cm	
34	PRU GOO	Prunus 'Snow Goose'	Selected Standard: 4 brks: 2x: RB: Clear Stem 175-200cm	300-350cm	10-12cm
9	PRU AVI	Prunus avium	Heavy Standard: 5 brks: 3x: RB: Clear Stem 175-200cm	350-425cm	12-14cm
2	PRU AVI	Prunus avium	Extra Heavy Standard: 5 brks: 3x: RB: Clear Stem 175-200cm	400-450cm	14-16cm
4	PRU PAD	Prunus padus	Heavy Standard: 5 brks: 3x: RB: Clear Stem 175-200cm	350-425cm	12-14cm
13	QUE PET	Quercus petraea	Heavy Standard: 5 brks: 3x: RB: Clear Stem 175-200cm	350-425cm	12-14cm
8	QUE ROB	Quercus robur	Extra Heavy Standard: 5 brks: 3x: RB: Clear Stem 175-200cm	400-450cm	14-16cm
29	SOR ARI	Sorbus aria	Heavy Standard: 5 brks: 3x: RB: Clear Stem 175-200cm	350-425cm	12-14cm
10	SOR STR	Sorbus aucuparia 'Streetwise'	Selected Standard: 4 brks: 2x: RB: Clear Stem 175-200cm	300-350cm	10-12cm
28	TIL EUR	Tilia x europaea	Heavy Standard: 5 brks: 3x: RB: Clear Stem 175-200cm	350-425cm	12-14cm
Total :274 -					

Number	Abbreviation	Species	Specification	Density	Height	Length	
4593	CAR BET	Carpinus betulus	1+1: Transplant - seed raised: B	0.4Ctr	Double Staggered at 0.15m offset	60-80cm	908.0792m
Total :4593 -							

Number	Abbreviation	Species	Pot Size	Specification	Height	Density	Area
34	CEA REP	Ceanothus thyrsiflorus repens	5L	Bushy: 5 brks: C	2m'		14.9321m ²
8	CEA REP	Ceanothus thyrsiflorus repens	3L	Bushy: 5 brks: C	3m'		2.6235m ²
103	COR ELE	Cornus alba 'Elegantissima'	3L	Branched: 4 brks: C	60-80cm	2/m ²	47.9634m ²
18	COR ELE	Cornus alba 'Elegantissima'	3L	Branched: 4 brks: C	40-60cm	3/m ²	5.544m ²
30	ELA EBB	Elaeagnus x ebbingei	3L	Branched: 3 brks: C	30-40cm	3/m ²	9.4292m ²
12	ELA EBB	Elaeagnus x ebbingei	5-7.5L	Branched: 4 brks: C	60-80cm	1/m ²	10.6477m ²
148	ERI SPA	Erica carnea 'Pink Spangles'	6m'	Bushy: C			23.5688m ²
8	EUI GAI	Euonymus fortunei 'Emerald Gaiety'	5-7.5L	Bushy: 8 brks: C	25-30cm	2/m ²	3.14m ²
8	EUI QUE	Euonymus fortunei 'Silver Queen'	5L	Bushy: 7 brks: C	20-30cm	3/m ²	2.6357m ²
61	EUI HUG	Euonymus japonicus 'Jean Hugues'	2L	: C	20-40cm	4/m ²	14.3369m ²
15	HEB WIN	Hebe 'Mrs Winder'	3L	Bushy: 5 brks: C	30-40cm	3/m ²	4.9913m ²
117	HEB WIN	Hebe 'Mrs Winder'	5-7.5L	Bushy: 7 brks: C	40-60cm	1/m ²	87.8874m ²
67	HEB GEM	Hebe 'White Gem'	5-7.5L	Bushy: 7 brks: C	30-40cm	2/m ²	30.526m ²
202	LON MAI	Lonicera nitida 'Maigrün'	5L	Bushy: 8 brks: C	2m'		93.3226m ²
29	LON PIL	Lonicera nitida 'Pilgrimage'	5L	Bushy: 8 brks: C	2m'		13.1572m ²
61	POT ELI	Potentilla fruticosa 'Elizabeth'	5-7.5L	Bushy: 5 brks: C	2m'		27.7374m ²
326	POT TAN	Potentilla fruticosa 'Tangerine'	3L	Bushy: 4 brks: C	3m'		103.7977m ²
310	PRU BRA	Prunus laurocerasus 'Cherry Brandy'	3L	Bushy: 3 brks: C	3m'		98.6662m ²
77	SAN CHA	Santolina chamaecyparissus	5L	Bushy: 8 brks: C	30-40cm	2/m ²	33.2587m ²
224	SAN VIR	Santolina virens	3L	Bushy: 7 brks: C	20-30cm	3/m ²	70.2548m ²
94	SAR HUM	Sarcococca humilis	3L	Bushy: 6 brks: C	20-25cm	4/m ²	22.5599m ²
Total :1950 -							

Number	Abbreviation	Species	Specification	Density	Height	Length	
4593	CAR BET	Carpinus betulus	1+1: Transplant - seed raised: B	0.4Ctr	Double Staggered at 0.15m offset	60-80cm	908.0792m
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