

GENERAL SPECIFICATION NOTES

For Proposed Tree, Hedge, and Shrub/herbaceous perennial Planting - Implementation and maintenance.

Site preparation: Imported Topsoil Imported topsoil shall be to BS 3882: 2015: Specification for topsoil and requirements for use, and be of medium texture with a high proportion of loamy material. It shall be free from rubbish, rubbish, roots of perennial weeds and other injurious to plant growth. All topsoil shall be stacked in heaps, not exceeding 2m high. During storage, topsoil heaps shall be kept free from contamination, compaction and weeds. Imported topsoil shall be from an approved source and a sample submitted and analyzed/tested at an independent approved laboratory. Soil Handling: Soil handling shall only take place during the driest parts of the year to prevent compaction of all hard soils. Preparation for Topsoil Re-spread Topsoil shall be spread following completion of all hard landscape building works, following a thorough clearance and removal of building debris. The formation levels shall be as follows: Tree pits: 2m x 2m x 1m deep; bottom of pit broken up to a depth of 150- 200mm and scarify sides. Shrub & Hedge trenches and shrub areas: minimum 0.45m deep.

Bul Planting Areas: 150mm deep of free draining topsoil mix (75% topsoil / 25% coarse compost). 600mm below planted and meadow sections to be broken up to aid infiltration.

Root Protection: Area beneath Existing Trees: Cultivation to a depth of 400-450mm for shrub planting to be undertaken by hand using hand tools only to minimize root damage. If significant roots are encountered, these will be left undamaged and dug around; Where new topsoil is required, existing soil shall be removed by hand and backfilled with new topsoil by hand to existing levels.

Backfilling with Topsoil: Tree pits and Shrub beds shall be backfilled, in layers, with topsoil thoroughly mixed with planting organic compost and slow release fertilizer shall be used to plant all shrubs and hedges. All finished levels shall be 25mm above adjacent paving. The shrubs shall be shaken during backfilling to avoid air pockets and the soil must be firmed as the hole is filled.

Cultivation: Topsoil shall be cultivated to a minimum of 450mm deep on planting areas to a medium tillth, removing all rubbish, vegetation, perennial weeds, roots, stones over 50mm in any one dimension and raked to even levels.

PLANTING

Plant Stock and Timing: Plant material shall conform to BS 3936 Part 1: 1992, Part 2: 1990; Part 9: 1998; Part 10: 1990 and BS4043: 1989 and shall be protected at all times in transit to the site. The planting season shall be from 1st October to the 31st March. Planting shall not be carried out during periods of frost, drought, cold drying winds, or when the soil is waterlogged.

The planting shall be carried out in the first planting season following practical completion of the building and hard landscaping. Planting outside the planting season will require adequate watering to ensure establishment.

Planting: All trees, hedges & shrub planting shall be planted upright at the same depth as the nursery soil level and evenly spaced, leaving room for growth. Allow at least 300mm clearance between the rootball and the edge of the pit to facilitate staking/anchoring and to allow adequate amount of backfill around the root ball.

Trees in soft landscape (open public space) shall be staked and braced with a cross member. Immediately following planting, all plants shall be watered-in to field capacity. Irrigation pipes shall be included at the base of each individual tree and shall be 80mm flexible plastic perforated pipe of a suitable length to wrap around the full circumference of the rootball with a 'T' piece allowing sufficient pipe to extend just above the finished ground level with a plastic cap.

Mulching: Prior to the application of mulch, the planting areas shall be completely weed free and watered sufficiently to achieve field capacity. The surface of the planting areas shall be mulched with a layer of Organic Compost Mulch or Fine Composted Bark Mulch composted for 2-4 weeks with a particle size of 0-8mm, to a depth of 50mm, ensuring that the low branches of shrubs and herbaceous plants are not smothered. The mulch shall be topped-up to maintain, after settlement, a depth of not less than 50mm.

IMPLEMENTATION

All tree, shrub planting areas shall be carried out in the first planting season after all the building works and the hard landscaping areas have been set out and completed.

-Deciduous trees and shrubs - Late October to late March
 -Herbaceous plants: September/October and March/April
 -Container grown plants: At any time if conditions are favorable
 -All construction works to be carried out to manufactures recommendations regarding climatic conditions and controls.

AFTER CARE PERIOD

Maintenance: The Aftercare Period shall extend for an 18 month period. During the Aftercare Period maintenance visits shall be carried out, at least monthly from April to September and twice during the dormant season to carry out the following operations to establish healthy growing plants in weed free areas. Maintenance operations shall include: watering, firming-up, pest and disease control, grass cutting, general pruning, weed control, top up mulch and autumn tidying. Replacement Planting. All plants, which have died, are missing or have failed to thrive, shall be noted and replaced with the same size and species as originally planted, in the following planting season.

MAINTENANCE SCHEDULE

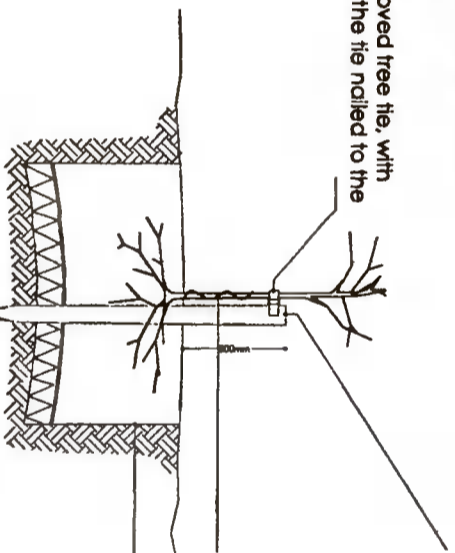
Schedule of Maintenance Operations for establishment.

YEARLY MAINTENANCE SCHEDULE :- No. visits month-by-month

Item	Operation	January	February	March	April	May	June	July	August	September	October	November	December
1	Grass Areas												
1	Cut grass to height 25mm - lifting of cuttings			1	2	2	3	3	3	2	1		
2	Application of fertilizer							1					
3	Selective weed control												
4	Liam fit - remove debris and filter from grass areas prior to cutting, includes leaf fit in October and November		1	1	2	2	2	2	2	2	2	2	1
5	Trim edges around beds and tree circles and upstands.												
6	Remove noxious weeds by hand or spot treatment with herbicides			1	2	2	2	2	2	2	1		
7	Trees												
1	Check and adjust tree ties as appropriate												
2	Spray around base of trees.												
3	Remove dead or damaged limbs.												
4	Formative prune and crown lift.												
5	Hedges												
1	Spray along base of hedges												
2	Cut hedge lines to desired profile.												
3	Shrub Areas												
1	Keep all shrubs in weed free condition by manual weeding and raking as necessary.												
2	Spot treatment with herbicides to eradicate weeds.												
3	Weed control (removal of persistent weeds by hand).												
4	Pruning to desired profiles, thinning back from kerbs etc.												
5	Liam fit.												
6	Apply fertilizer												

TREE PLANTING DETAIL

Single approved tree tie, with the ends of the tie nailed to the stake.



50mm square sweet chestnut or peeled larch stake, pointed at one end, straight enough to be driven and not rub the stem, and preserved to resist rot for its intended lifespan. The stake is to be placed on the windward side of the tree to prevent rubbing.

Spiral Rabbit Guard 450mm high
 Sides of pit to be broken with a fork

The tree pit should be excavated to allow adequate clearance between the root ends (when fully spread) and the side of the pit.
 The depth of the pit should be a minimum of 700mm, and at least 75mm greater than the depth of the root system.

Fork the bottom and sides of the pit to break up the subsoil. Back-fill as shown to the level of the roots. Mix the dug soil with a slow release fertilizer and an approved soil ameliorant.

Prior to planting, prune back all damaged roots to healthy growth; soak the trees in water whilst waiting to be planted; dip all bare-rooted trees in an approved root dip.

Drive in the stake so that it is a minimum of 300mm below the bottom of the pit, and 600mm above the ground level. Plant the tree ensuring that the original depth is maintained and that the roots are spread to their fullest extent. Carefully work the prepared backfill soil between the roots while shaking the tree slightly.

Backfill in layers up to the existing ground level, firming by treading, taking care not to damage the roots. Fix the tree to the stake.
 Spread 75-100mm depth of mulch over a minimum area of 1m diameter around the tree, and maintain until the spring following the first growing season.

PROPOSED TREE SOIL SPECIFICATION

Material	Tree Backfill Soil
Purity	Manufactured to the British Soil Standard BS 3882:2015 Topsoil, peat-free compost, horticultural grit and sand
Site Distribution	Sustainable free from physical and chemical contaminants and pathogens. 100% passing through 25mm screen.
Soil Texture	50% passing through 10mm screen. Clay (<0.002mm) 5-18 % Silt (0.002-0.05mm) 0-25 % Sand (0.05-2.0mm) 55-85% (where 100% sand is not to be used in the same area as a topsoil) % DW (2-20mm) < 10% % DW (20-50mm) < 3% 12 - 30%
Stone Content	< 300 µm/cm
Moisture Content	20-250 %w/w
Conductivity	25 - 125 µm/L
Plant Available Nutrients Values	
Total Nitrogen	300 - 1,000 mg/L
Available Phosphorus	120 - 500 mg/L
Available Potassium	> 1,200 mg/L
Available Magnesium	7 mg/L
Available Calcium	10 mg/L
Available Copper EDTA	88 mg/L
Available Zinc EDTA	630 mg/L
Available Sodium	1.3 mg/L
Available Sulphate	5 - 15 %w/w
Hot Water Soluble Boron	6 - 8.5
Organic Matter (LOI)	7-18 : 1
pH Value	6.00 - 11.00 g/L
Carbon : Nitrogen Ratio	
Bulk Density	

GENERAL NOTES

-Shrub planting to be used to soften the development into the landscape. Specimen plants to be planted at a density of 5 per M Sq

-All tree and hedgerow planting to be carried out during the period Nov-March. Operations will not be carried out during periods of poor weather.

-All trees and hedgerows to be set out by Landscape Architect prior to planting.

-Quality of trees and shrubs to be approved by Landscape Architect prior to planting.

-Top soil operations to be carried out during good weather conditions.

-All shrubed areas to be covered with 75mm of Medium grade bark mulch post planting

LANDSCAPE ARCHITECTS & CONSULTANTS

landscape design services

PROJECT: HOUSE #12 TO BEAN WALK IN RAMPOLE, COLUMBIA
 CLIENT: [REDACTED]
 PROJECT ARCHITECT: [REDACTED]
 PROJECT MGR: [REDACTED]

DATE: 12.11.2019
 SCALE: 1:100 @ A3
 REVISIONS: [REDACTED]

DRAWING NO: [REDACTED]
 DRAWING LANDSCAPE DETAIL

DESIGNED BY: [REDACTED]
 CHECKED BY: [REDACTED]
 DRAWN BY: [REDACTED]

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SPECIFIED AND SHALL BE CONTROLLED BY THE CONTRACTOR ON THE BASIS OF THE DRAWING. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE LOCAL AUTHORITY AND OTHER RELEVANT AGENCIES. THIS DRAWING IS THE PROPERTY OF LANDSCAPE ARCHITECTS & CONSULTANTS. IT IS TO BE USED ONLY FOR THE PROJECT AND SITE SPECIFICALLY IDENTIFIED. IT IS NOT TO BE REPRODUCED, COPIED, OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, WITHOUT THE WRITTEN PERMISSION OF LANDSCAPE ARCHITECTS & CONSULTANTS.