SPECIFICATION

GROUND PREPARATION - GENERAL NOTES

CLEARANCE/EXCAVATING

TREE ROOTS

Protected area: Do not cut roots within precautionary protection area.
- Size of area: Branch spread of the tree.

Excavation in protected area:
- Method by hand.
- Backfill as soon as possible or temporarily top with polyethylene sheet to reduce evaporation.

Outside protected area: Give notice of roots exceeding 25 mm and do not cut without approval.

Cutting:
- Make clean smooth cuts with no ragged edges.
- Pare surfaces smooth with a sharp knife.
- Treatment of cut roots: Not required.

Backfill: As top material, enriched with phosphate fertilizer.

GROUND PREPARATION

SUBSOIL SURFACE PREPARATION

General: Excavate and/ or place fill to required profiles and levels.

Loosening:
- Light and noncohesive subsoils: When ground conditions are reasonably dry, loosen thoroughly to a depth of 300 mm.
- Stiff clay and cohesive subsoils: When ground conditions are reasonably dry, loosen thoroughly to a depth of 450 mm.
- Rock and chalk subgrades: Lightly scarify to promote free drainage.

Stones: Immediately before spreading topsoil, remove stones larger than 50 mm.

Remove Arisings, contaminants and debris and Builders rubble.

PREPARATION OF UNDISTURBED TOPSOIL

Standard: In accordance with BS 4428.
- Grading and cultivation: Category B.

Hard ground: Break up thoroughly.

Clearing: Remove visible roots and large stones with a diameter greater than 50 mm.

Areas covered with turf or thick sward: Plough or dig over to full depth of topsoil.

Fallow period (minimum): Not required.

Weed control: At appropriate times treat with a suitable translocated non-residual herbicide.

IMPORTED TOPSOIL TO BS 3882

Quantity: Provide as necessary to make up any deficiency of topsoil resulting on site and to complete the work.

Standard: Multipurpose.

Classification: Multipurpose.
- Grade: 0-0.2 mm.

Source: Contractor's choice.
- Product reference: Contractor's choice.

CULTIVATION

Compacted topsoil: Break up to full depth.

Tilth: Loosen, aerate and break up topsoil to a tilth suitable for blade grading.
- Depth: 150 mm.
- Particle size (maximum): 2-8 mm.
- Timing: Within a few days before planting.
- Weather and ground conditions: Suitably dry.

Surface: Leave regular and even.

Levels: 25 mm above adjoining paving or kerbs and 50 mm above adjoining lawns.

Undesirable material brought to the surface: Remove visible weeds, roots and large stones with any dimension exceeding 50 mm.

Soil within root spread of trees and shrubs to be retained: Do not dig or cultivate.

GRADING OF TOPSOIL

Topsoil condition: Reasonably dry and workable.

Contours: Smooth and flowing, with falls for adequate drainage.
- Hollows and ridges: Not permitted.

Finished levels after settlement: 25 mm above adjoining paving, kerbs, manholes etc.

Blade grading: May be used to adjust topsoil levels provided depth of topsoil is nowhere less than 100 mm.

Give notice: If required levels cannot be achieved by movement of existing soil.

FINAL CULTIVATION

Timing: After grading and fertilizing.

Seed bed: Reduce to fine, firm tilth with good crumb structure.
- Depth: 25 mm.
- Surface preparation: Rake to a true, even surface, friable and lightly firmed but not over compacted.
- Remove surface stones/earth clods exceeding: General areas: 20 mm.

Fine lawn areas: 10 mm.

Adjacent levels: Extend cultivation into existing adjacent grassed areas sufficient to ensure full marrying in of levels.

DELIVERY AND STORAGE OF TURF

Timing: Lay turf with minimum possible delay after lifting. If delay occurs, lay turf out on topsoil and keep moist.

Firmly weather or waterlogged ground: Do not lift turf.

Frosty weather: To avoid need for excessive stacking.

Stacking height (maximum): 2 m.

Dried out or deteriorated turf: Do not use.

TURFING GENERALLY

Time of year: Autumn or early winter.

Timing of laying:
- Spring and summer: Within 18 hours of delivery.
- Autumn and winter: Within 24 hours of delivery.

Weather conditions: Do not lay turf when persistent cold or drying winds are likely to occur or soil is frost bound, waterlogged or excessively dry.

Working access: Planks laid on previously laid turf. Do not walk on prepared bed or newly laid turf.

Jointing: Lash with broken joints, well butted up. Do not stretch turf.

Edges: Whole turfs, trimmed to a true line.

Adjusting levels: Remove high spots and fill hollows with fine soil.

Consolidating: Lightly and evenly firm as laying proceeds to ensure full contact with substrate. Do not use rollers.

Dressing, brushed well in to completely fill all joints: Sandy loam

Watering: Thoroughly water completed turf immediately after laying.

Check that water has penetrated into the soil below.

Turf configuration: Diagonal or horizontal.

Securing turfs:
- Fixings: Pointed softwood pegs, 200 mm long x 25 mm square.
- Frequency of fixings: Each turf.

Removal of fixings: When turf is thoroughly self anchored by its roots. Make good any damage to grass until area is accepted.

EXTERNAL PLANTING

CLIMATIC CONDITIONS

General: Carry out the work while soil and weather conditions are suitable.

Condition: Do not plant in waterlogged soils. Do not plant.

TREE DEPTH OF YEAR FOR PLANTING

Deciduous trees and shrubs: Late October to late March.

Conifers and evergreens: September/ October or April/ May.

Herbaceous plants (including marginal): September/ October or March/ April.

Aquatic plants: May/ June or September/ October.

PLANTS/ TREES - GENERAL

Condition: Materially undamaged, sturdy, healthy and vigorous.

Appearance: Of good shape and without elongated shoots.

Hardiness: Grown in a suitable environment and hardened off.

Health: Free from pests, diseases, discoloration, weeds and physiological disorders.

Budded or grafted plants: Bottom worked.
- Duration: 2 weeks.

CULTIVATION

Compacted topsoil: Break up to full depth.

Soil amelioram/ Conditioner/ Fertiliser: Fully incorporate into topsoil to a depth of 100 mm.

Tilth: Reduce to a fine tilth suitable for blade grading.
- Depth: 100 mm.
- Particle size (maximum): 5 mm.

Material brought to the surface: Remove stones and clay balls larger than 50 mm in any dimension, roots, tufts of grass, rubbish and debris.

GRADING

Topsoil condition: Reasonably dry and workable.

Contours: Smooth and flowing, with falls for adequate drainage.
- Hollows and ridges: Not permitted.

Finished levels after settlement: 25 mm above adjoining paving, kerbs, manholes etc.

Blade grading: May be used to adjust topsoil levels provided depth of topsoil is nowhere less than 100mm.

Give notice: If required levels cannot be achieved by movement of existing soil.

FINAL CULTIVATION

Timing: After grading and fertilizing.

Seed bed: Reduce to fine, firm tilth with good crumb structure.
- Depth: 25 mm.
- Surface preparation: Rake to a true, even surface, friable and lightly firmed but not over compacted.
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Fine lawn areas: 10 mm.

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DELIVERY AND STORAGE OF TURF

Timing: Lay turf with minimum possible delay after lifting. If delay occurs, lay turf out on topsoil and keep moist.

Firmly weather or waterlogged ground: Do not lift turf.

Frosty weather: To avoid need for excessive stacking.

Stacking height (maximum): 2 m.

Dried out or deteriorated turf: Do not use.

TURFING GENERALLY

Time of year: Autumn or early winter.

Timing of laying:
- Spring and summer: Within 18 hours of delivery.
- Autumn and winter: Within 24 hours of delivery.

Weather conditions: Do not lay turf when persistent cold or drying winds are likely to occur or soil is frost bound, waterlogged or excessively dry.

Working access: Planks laid on previously laid turf. Do not walk on prepared bed or newly laid turf.

Jointing: Lash with broken joints, well butted up. Do not stretch turf.

Edges: Whole turfs, trimmed to a true line.

Adjusting levels: Remove high spots and fill hollows with fine soil.

Consolidating: Lightly and evenly firm as laying proceeds to ensure full contact with substrate. Do not use rollers.

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Watering: Thoroughly water completed turf immediately after laying.

Check that water has penetrated into the soil below.

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Securing turfs:
- Fixings: Pointed softwood pegs, 200 mm long x 25 mm square.
- Frequency of fixings: Each turf.

Removal of fixings: When turf is thoroughly self anchored by its roots. Make good any damage to grass until area is accepted.

EXTERNAL PLANTING

CLIMATIC CONDITIONS

General: Carry out the work while soil and weather conditions are suitable.

Condition: Do not plant in waterlogged soils. Do not plant.

TREE DEPTH OF YEAR FOR PLANTING

Deciduous trees and shrubs: Late October to late March.

Conifers and evergreens: September/ October or April/ May.

Herbaceous plants (including marginal): September/ October or March/ April.

Aquatic plants: May/ June or September/ October.

PLANTS/ TREES - GENERAL

Condition: Materially undamaged, sturdy, healthy and vigorous.

Appearance: Of good shape and without elongated shoots.

Hardiness: Grown in a suitable environment and hardened off.

Health: Free from pests, diseases, discoloration, weeds and physiological disorders.

Budded or grafted plants: Bottom worked.

Root system and condition: Balanced with branch system.
- Standard: The National Plant Specification.

Species: True to name.

Origin/ Provenance: Local provenance.

Definition: Origin and Provenance have the meaning given in the National Plant Specification.

PLANTS/ TREES - SPECIFICATION CRITERIA

Name, forms, dimensions, provenance and other criteria: As scheduled and defined in the National Plant Specification.

PLANT HANDLING, STORAGE TRANSPORT AND PLANTING

Standard: To HTA 'Handling and establishing landscape trees'.

Frost: Protect plants from frost.

Handling: Handle plants with care. Protect from mechanical damage and do not subject to shock, e.g. by tipping from a vehicle.

Plant packaging: Coextruded polyethylene bags with black interior and white exterior. All bare root plants to be supplied in bags containing and enclosing the whole root system. Transplants should be supplied with shoots and roots fully enclosed in the bag, whereas larger shrubs and trees should have only the root system enclosed. The bag should be co-extruded polythene bags with black interior and exterior with larger trees packaged as follows: 6-8cm and 8-10cm girth trees + 3N/ trees per bag. All plants shall be adequately packaged and protected during transportation from source to planting on site. To minimise storage of plant stock, operations are to be arranged so that trees and shrubs are planted immediately after each planting pit is prepared.

Packaging of bulk quantities: Pallets or bins sealed with polyethylene and shrink wrapped.

Planting: Upright or well balanced with best side to front.

HERBICIDE TO CLEAR ALL VEGETATION

Locations: All planting areas.

Type: Suitable for suppressing perennial weeds.

Timing: Allow follow period before cultivation.
- Break up thoroughly.

PEAT

Peat or products containing peat: Do not use.

CULTIVATION

Compacted topsoil: Break up to full depth.

Cultivation: Loosen, aerate and break up soil into particles of 2-8mm.
- Depth: 300 mm.
- Timing: Within a few days before planting.
- Weather and ground conditions: Suitably dry.

Surface: Leave regular and even.

Levels: As above.

Undesirable material brought to the surface: Remove visible weeds,roots and large stones with any dimension exceeding 30 mm. Soil within root spread of trees and shrubs to be retained: Do not dig or cultivate

REGULAR PLANT LAYOUT: TO ALL ORNAMENTAL BEDS

Spacing: In regular, staggered rows.

Density: As per schedules.

SHRUB PLANTING PITS

Timing: Excavate 1 days (maximum) before planting.

Sizes: Wide enough to accommodate roots when fully spread and 5 mm deeper than root system.

Pit bottom: Improvement Break up to a depth of 150 mm, incorporating 25 g of slow release fertilizer per planting pit.

Backfilling material: Previously prepared mixture of 1 part non peat based proprietary compost, 3 parts extracted material and 1 Nr Scotts UK Sierraben Flora tablet (supplier - Greenleon or similar approved) per shrub.

FORMAL HEDGES

Shrubs for hedges: Consistent in species, cultivar and clone to ensure a uniform hedge.

Planting: In trenches large enough to take full spread of roots. Set out plants evenly.

SHRUB, HERBACEOUS AND BULB BACKFILLING MATERIAL

Composition: Previously prepared mixture of topsoil from site and additional topsoil as required.

Ameliorant/ Conditioner: Previously prepared mixture of 1 part non peat based proprietary compost, 3 parts extracted material.
- Application rate: 1Nr litre bag per 30 Nr shrubs. Excess compost to be spread evenly around the shrubs after planting.

Fertilizer: Sierra Flora (or similar approved).
- Application rate: 1Nr 10g 'Sierra Flora' tablet per shrub.

AFTER PLANTING

Watering: Immediately after planting, thoroughly and without damaging or displacing plants or soil.

Firming: Lightly firm soil around plants and fork and/ or rake soil, without damaging roots, to a fine tilth with gentle crambers and no hollows.

Top dressing: Not required.

Depth: N/A WOODLAND/EDGE BEDS

Material: Medium grade bark mulch.
- Purity: Free of pests, disease, fungus and weeds.
- Recycled content: None permitted.

Preparation: Clear all weeds. Water soil thoroughly.

Coverage: 50 mm depth.

Finished level of mulch: 50 mm below adjacent grassed or paved areas.

TREE PITS

Sizes: 500 mm wider than, and the same depth as the rootball (min 750 mm depth).

Sloping ground: Maintain horizontal bases and vertical sides with no less than minimum depth throughout.

Pit bottoms: With slightly raised centre. Break up to a depth of 150mm.

Tablets: Treatment: 3 Nr Scotts UK Sierraben Flora tablet (supplier - Greenleon, Tel: 01423 332100 - or similar approved) UK per tree.

Pit sides: Scarify.

Backfilling material: Previously prepared mixture of 1 part non peat based proprietary compost and 3 parts extracted material.

TREE PIT ACCESSORIES: IRRIGATION OF TREES IN PUBLIC OPEN SPACE

Locations: All trees.

Manufacturer: Greenleaf Horticulture (or similar approved).
- Product reference: RRPC4 Root Rain Metro tree irrigation.

Type: Perforated plastics irrigation pipe, 35 mm diameter, with end and around sides of rootball, with metal cap.

MULCHING PLANTING BEDS TO ALL ORNAMENTAL BEDS & TREE PIT ACCESSORIES: UNDERGROUND GUYING & EXTRA-HEAVY STANDARD TREES

Locations: All EHS trees (ie. 16-18cm trees & above).

Manufacturer: Platipus Anchors Limited (or similar approved).
- Product reference: Platipus Tree Anchoring System, Type RF2P (or similar approved).

Type: The product is a root ball fixing kit that provides fast and secure root ball anchoring during the first few years of tree growth. The components of the anchoring system are all located below ground, therefore avoiding the appearance of unsightly guy wires or stakes. Basic installation tools required are a drive rod and tension lever.

STAKING GENERALLY

Stakes: Softwood, peeled chestnut, larch or oak, straight, free from projections and large or edge knots and with pointed lower end.

Timing: Preservative treatment: To provide a 20 year service life.

Nails: To BS 1202-1, galvanized, minimum 25 mm long

Stake size (minimum): 150 mm diameter.

SINGLE STAKING FOR FEATHERED & STANDARD TREES

Staking: Position stake close to tree on windward side and drive at 45 degrees at least 300mm into bottom of tree pit before planting.
- Backfilling: Consolidate material around stake

Height of stakes: Cut to approximately 600 mm above ground level.

Tying: Secure tree firmly but not rigidly to stake with at least two ties within 25 mm of top of stake.

TREE BACKFILLING MATERIAL

Composition: Previously prepared mixture of topsoil excavated from pit and additional topsoil as required.

Ameliorant/ Conditioner: Enmag.
- Application rate: 120g per tree pit.

Fertilizer: Scotts (or similar approved) Sierraben Flora 15g tablets (Green-tech, Tel: 01423 332100.
- Application rate: 4Nr per tree. Do not place at the base of the tree, place at the side, halfway up the backfill, no deeper than 20cm.

MULCHING TREES

Material: Medium grade bark mulch.
- Purity: Free of pests, disease, fungus and weeds.
- Recycled content: None permitted.

Preparation: Clear all weeds. Water soil thoroughly.

Coverage: 1200 diameter with tree positioned in the centre.

Finished level of mulch: 30 mm below adjacent grassed or paved areas.

TREE PROTECTION OF TREES IN PUBLIC OPEN SPACE

Manufacturer: Acorn Planting Products Ltd.
- Product reference: Spiral Shelters.

Type: Spiral.

Size/ Colour: 63mm dia by 750mm height, colour: slight tint.

Support: 1200mm 22-24ib/100 bamboo cane- as per manufacturers recommendation.

General: Ensure that protection methods do not impede natural movement of trees or restrict growth.

TREE PROTECTION FOR WHIPS/TRANSPLANTS IN PUBLIC OPEN SPACE

Manufacturer: Acorn Planting Products Ltd.
- Product reference: Spiral Shelters.

Type: Spiral.

Size/ Colour: 50mm dia by 600mm height (colour: slight tint).

Support: 1200m 22-24ib/100 bamboo cane- as per manufacturers recommendation.

General: Ensure that protection methods do not impede natural movement of trees or restrict growth.

SHRUB PROTECTION OF PLANTS IN PUBLIC OPEN SPACE

Manufacturer: Acorn Planting Products Ltd.
- Product reference: Sentree mesh guard.

Size/ Colour: 50mm dia by 600mm height, colour: slight tint.

PROTECTION TO EXISTING TREES

The recommendations in BS 5837 (2005), *Trees in relation to Construction* must be complied with at all times.

No pruning, lopping, felling or severance of roots is to take place without prior consent of the local authority.

Any work to the existing trees is to be carried out by a qualified tree surgeon.

The position and costruction of protective fencing shall be agreed with the local authority prior to any site works commencing.

Under no circumstances must any materials be stored under the canopy of existing trees, and no cement, diesel or oil stored near them.

No vehicles should pass under the canopy of existing trees.

No fires should be lit in close proximity to existing trees.

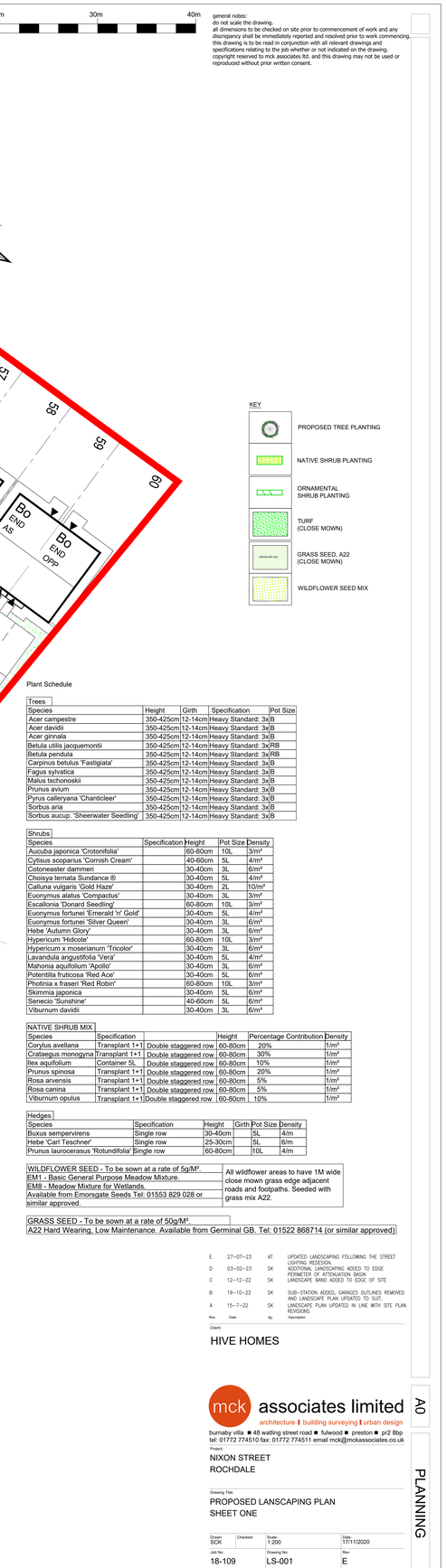
No ropes, cables, services or notice boards shall be fixed to existing trees.

Under no circumstances should the levels around existing trees be either raised or reduced.

Scaffolding may only be erected within protected areas if it is done so in accordance with BS 5837.

Any excavations under existing tree canopy spreads shall be done by hand.





Plant Schedule

Trees

Species	Height	Girth	Specification	Pot Size
Acer campestre	350-425cm	12-14cm	Heavy Standard: 3x/B	
Acer davidii	350-425cm	12-14cm	Heavy Standard: 3x/B	
Acer ginnala	350-425cm	12-14cm	Heavy Standard: 3x/B	
Betula utilis jacquemontii	350-425cm	12-14cm	Heavy Standard: 3x/RB	
Betula pendula	350-425cm	12-14cm	Heavy Standard: 3x/RB	
Carpinus betulus 'Fastigiata'	350-425cm	12-14cm	Heavy Standard: 3x/B	
Fagus sylvatica	350-425cm	12-14cm	Heavy Standard: 3x/B	
Malus tschonoskii	350-425cm	12-14cm	Heavy Standard: 3x/B	
Prunus avium	350-425cm	12-14cm	Heavy Standard: 3x/B	
Pyrus calleryana 'Chanticleer'	350-425cm	12-14cm	Heavy Standard: 3x/B	
Sorbus aria	350-425cm	12-14cm	Heavy Standard: 3x/B	
Sorbus aucup. 'Sheerwater Seedling'	350-425cm	12-14cm	Heavy Standard: 3x/B	

Shrubs

Species	Specification	Height	Pot Size	Density
Aucuba japonica 'Crotonifolia'		60-80cm	10L	3/m²
Cytisus scoparius 'Cornish Cream'		40-60cm	5L	4/m²
Cotoneaster dammeri		30-40cm	5L	6/m²
Choisya ternata Sundance ®		30-40cm	5L	4/m²
Calluna vulgaris 'Gold Haze'		30-40cm	2L	10/m²
Euonymus alatus 'Compactus'		30-40cm	3L	3/m²
Escallonia 'Donard Seedling'		60-80cm	10L	3/m²
Euonymus fortunei 'Emerald 'n' Gold'		30-40cm	5L	4/m²
Euonymus fortunei 'Silver Queen'		30-40cm	3L	6/m²
Hebe 'Autumn Glory'		30-40cm	3L	6/m²
Hypericum 'Hidcote'		60-80cm	10L	3/m²
Hypericum x moserianum 'Tricolor'		30-40cm	3L	6/m²
Lavandula angustifolia 'Vera'		30-40cm	5L	4/m²
Mahonia aquifolium 'Apollo'		30-40cm	3L	6/m²
Potentilla fruticosa 'Red Ace'		30-40cm	5L	6/m²
Photinia x fraseri 'Red Robin'		60-80cm	10L	3/m²
Skimmia japonica		30-40cm	5L	6/m²
Senecio 'Sunshine'		40-60cm	5L	6/m²
Viburnum davidii		30-40cm	3L	6/m²

NATIVE SHRUB MIX

Species	Specification		Height	Percentage Contribution	Density
Corylus avellana	Transplant 1+1	Double staggered row	60-80cm	20%	1/m²
Crataegus monogyna	Transplant 1+1	Double staggered row	60-80cm	30%	1/m²
Ilex aquifolium	Container 5L	Double staggered row	60-80cm	10%	1/m²
Prunus spinosa	Transplant 1+1	Double staggered row	60-80cm	20%	1/m²
Rosa arvensis	Transplant 1+1	Double staggered row	60-80cm	5%	1/m²
Rosa canina	Transplant 1+1	Double staggered row	60-80cm	5%	1/m²
Viburnum opulus	Transplant 1+1	Double staggered row	60-80cm	10%	1/m²

Hedges

Species	Specification	Height	Girth	Pot Size	Density
Buxus sempervirens	Single row	30-40cm		5L	4/m
Hebe 'Carl Teschner'	Single row	25-30cm		5L	6/m
Prunus laurocerasus 'Rotundifolia'	Single row	60-80cm		10L	4/m

WILDFLOWER SEED - To be sown at a rate of 5g/M².
EM1 - Basic General Purpose Meadow Mixture.
EM8 - Meadow Mixture for Wetlands.
Available from Emorsgate Seeds Tel: 01553 829 028 or similar approved.

All wildflower areas to have 1M wide close mown grass edge adjacent roads and footpaths. Seeded with grass mix A22.

GRASS SEED - To be sown at a rate of 50g/M².
A22 Hard Wearing, Low Maintenance. Available from Germinal GB. Tel: 01522 868714 (or similar approved)

general notes:
do not scale the drawing.
all dimensions to be checked on site prior to commencement of work and any discrepancy shall be brought to the attention and resolved prior to work commencing.
this drawing is to be read in conjunction with all relevant drawings and specifications relating to the job whether or not indicated on the drawing.
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Rev.	Date	By	Description
E	27-07-23	AT	UPDATED LANDSCAPING FOLLOWING THE STREET LIGHTING REDESIGN.
D	03-02-23	SK	ADDITIONAL LANDSCAPING ADDED TO EDGE PERIMETER OF ATTENUATION BASIN
C	12-12-22	SK	LANDSCAPE BAND ADDED TO EDGE OF SITE
B	19-10-22	SK	SUB-STATION ADDED, GARAGES OUTLINES REMOVED AND LANDSCAPE PLAN UPDATED TO SUIT.
A	15-7-22	SK	LANDSCAPE PLAN UPDATED IN LINE WITH SITE PLAN REVISIONS

Client
HIVE HOMES

mck associates limited
architecture ‖ building surveying ‖ urban design
burnaby villa ■ 48 watling street road ■ fulwood ■ preston ■ pr2 8bp
tel: 01772 774510 fax: 01772 774511 email mck@mckassociates.co.uk

Project
NIXON STREET
ROCHDALE

Drawing Title
PROPOSED LANSCAPING PLAN
SHEET ONE

Drawn:	Checked:	Scale:	Date:
SCK		1:200	17/11/2020

Job No:	Drawing No:	Rev:
18-109	LS-001	E

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PLANNING