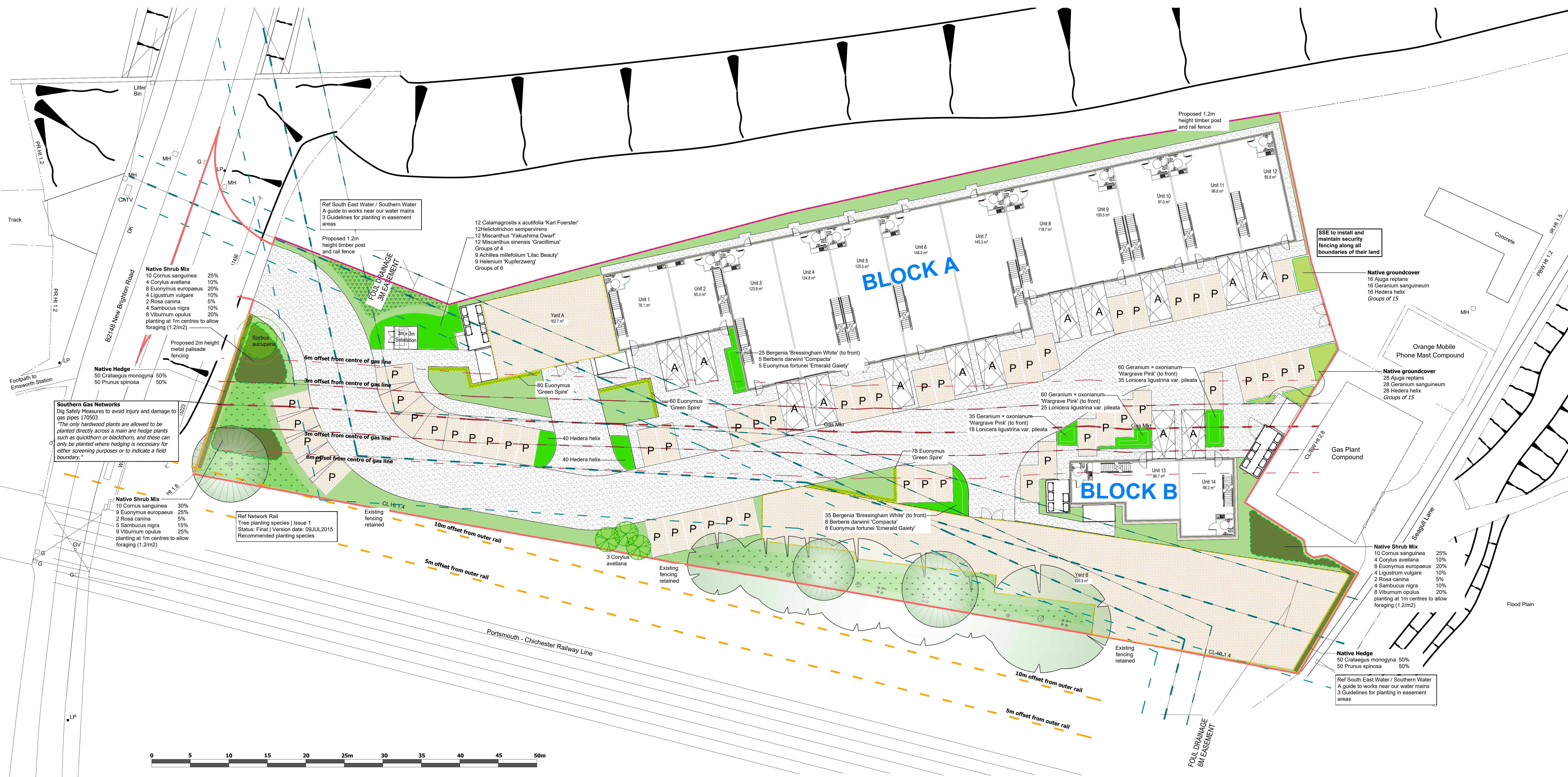




Refer to risk register:
Tenders to confirm locations of all services prior to commencement of work on site
Tenders to refer to site wide risk register

Notes:
Landscape Implementation Guidelines.
The approved soft landscaping scheme for the whole site shall be carried out prior to occupation of the building or during the first planting season following the full completion of building works, whichever is sooner.

All planting and landscape operations should comply with the requirements specified in BS 3936 (1992) Nursery Stock Part One, BS 4428 (1989) Code of Practice for General Landscaping Operations (excluding hard surfaces) and BS8545 Trees from nursery to independence in the landscape.

Any plant species shown on the approved landscape scheme which within a period of 5 years from the completion of the development dies, is removed or in the opinion of the LPA becomes seriously damaged or diseased shall be replaced in the same place in the next planting season with identical species unless the LPA gives written consent to any variation.

Proposed Tree Planting
Stock size proposed is as shown.
Tree support for standard trees to be two softwood stakes @ 7.5cm diameter @ 230cm length and should be driven into the ground to knee-height with ties and horizontal cross support.
Tree pit size to conform to BS8545 Trees from nursery to independence in the landscape.
There shall be a 1m diameter weed free mulched border to every tree, with a minimum of 50mm approved bark mulch applied. Each tree shall have protective guarding appropriate to species to prevent damage from pests.

Proposed Shrub & Hedge Planting
Shrub planting to be planted as shown in the plant schedule, to be planted in the first available planting season following the occupation of the building or the completion of the development (whichever is sooner), in a minimum 400mm depth of clean topsoil, with a minimum of 50mm approved bark mulch applied. Each shrub shall have protective guarding appropriate to species to prevent damage from pests.

Additional Notes.
Existing trees and vegetation to be retained are to be protected during construction to BS 5837:2012. Any necessary tree works to be carried out by an approved tree surgeon to BS 3998.
Trees, hedges and shrubs shown to be retained on the approved plan shall not be damaged, uprooted, felled, lopped or topped without the prior written consent of the local planning authority.

If any retained tree, hedge or shrub is removed or severely damaged during construction work, or is found to be seriously diseased or dying, another tree, hedge or shrub shall be planted at the same place and shall be of a size and species to be agreed in writing by the Local Planning Authority and shall be planted in the first planting season following the completion of the development or the occupation of the buildings, whichever is the earlier.

New footing depths must be calculated to deal with all new tree, shrub and hedge planting in accordance with the latest NHC recommendations.
Proposed tree positions are to be approved by the structural engineers responsible for foundation design.
Root barriers to be installed where trees are within 2m of services.

Landscape Maintenance (for the duration of the development)

GENERALLY
REINSTATEMENT - Damage or disturbance to soil structure, planting, grass, fencing, hard landscaping, structures or buildings: Reinstate to original condition.

WATERING
Supply: Potable mains water.
Quantity: Wet full depth of topsoil.
Application: Do not damage or loosen plants.
Compacted soil: Loosen or scoop out, to direct water to rootzone.
Frequency: As necessary for the continued thriving of all planting.

DISPOSAL OF ARISING
General: Unless specified otherwise, dispose of arising by removing from site.
LITTER - Extraneous rubbish to be collected and removed from site.

TREES/SHRUBS/HEDGES
ESTABLISHMENT OF NEW PLANTING
Weeds control:
- Method: Keep planting beds clear of weeds by maintaining full thickness of mulch.
- Area: Maintain a weed free area around each tree and shrub, minimum diameter the larger of 1 m or the surface of the original planting pit.

Soil condition: Fork over beds to keep soil loose, with gentle cambers and no hollows. Do not reduce depth or effect of mulch.
Trees: When in leaf spray crowns in the evening during warm weather.
ESTABLISHMENT OF NEW PLANTING - FERTILIZER
Time of year: March or April.
Type: Slow release.
Spreading: Spread evenly. Carefully lift and replace any mulch materials.
- Coverage: As manufacturer's recommendations.

TREE STAKES AND TIES
Inspection/ maintenance times: As scheduled and immediately after strong winds.
Stakes:
- Replace loose, broken or decayed stakes to original specification.
- If longer than half of clear tree stem height, cut to this height in spring. Retie to tree firmly but not tightly with a single tie.
Ties: Adjust, retie or replace loose or defective ties, allowing for growth and to prevent chafing.
- Where chafing has occurred, reposition or replace ties to prevent further chafing.
Removal of stakes and ties: During spring when no longer required to support the tree.
- Fill stake holes with lightly compacted soil.

REFORMING OF TREES AND SHRUBS
Timing: After strong winds, frost heave and other disturbances.
Reforming: Tread around the base until firmly bedded.
Collars in soil at base of tree stems, created by tree movement: Break up by fork, avoiding damage to roots. Backfill with topsoil and reform.
PRUNING GENERALLY
Pruning: In accordance with good horticultural and arboricultural practice.
- Removing branches: Do not damage or tear the stem.
- Wounds: Keep as small as possible and cut cleanly back to sound wood.
Cutting: Make cuts above and sloping away from an outward facing healthy bud, angled so that water will not collect on cut area.
- Larger branches: Prune neither flush nor leaving a stub, but using the branch bark ridge or branch collar as a pruning guide.
Appearance: Thin, trim and shape each specimen appropriately to species, location, season, and stage of growth, leaving a well balanced natural appearance.
Tools: Use clean sharp secateurs, hand saws or other approved tools. Trim off ragged edges of bark or wood with a sharp knife.

WEED CONTROL
General: Remove weeds entirely, including roots.
Disturbance: Remove the minimum quantity of soil, and disturb plants and mulched surfaces as little as possible.
Completion: Rake area to a neat, clean condition.
Mulch: Reinstate to original depth.
SOIL LEVEL ADJUSTMENT
Level of soil/mulch at edges of beds: Reduce to 50 mm below adjacent grass or hard surface. Arisings (if any) to be spread evenly over the bed.
MAINTENANCE OF LOOSE MULCH
Thickness (minimum): 50 mm.
Top up: Annually.
Mulch split on adjacent areas: Remove weeds and rubbish and return to planted area.
Weeding: Remove weeds growing on or in mulch by hand weeding.

HARD LANDSCAPE AREAS/FENCING
HARD SURFACES
Herbicide: Apply a suitable foliar acting or residual herbicide. Allow recommended period for herbicide to take effect before clearing arising.
Hard surfaces: Remove litter, leaves and other debris.
Surface gutters and channels: Remove mud, silt and debris.
Drainage gullies: Empty traps and flush clean.
Flexible bituminous pavings: In accordance with the original paving specification or BS 7370-2, clause 4.1.2.
Stain removal: In accordance with BS 7370-2, table 4.

FENCING
Fences: Inspect and repair to maintain protection against intruders.

FORMATIVE PRUNING OF YOUNG TREES
Standard: Type and timing of pruning operations to suit the plant species.
Time of year: Do not prune during the late winter/ early spring sap flow period.
Young trees up to 4 m high:
- Crown prune by removing dead branches and reducing selected side branches by one third to preserve a well balanced head and ensure the development of a single strong leader.
- Remove duplicated branches and potentially weak or tight forks. In each case cut back to live wood.
Whips or feathered trees: Do not prune.
Operatives: Extensive pruning of young trees and any surgery to larger trees must be carried out by an approved member of the Arboricultural Association or other approved specialist.

TRIMMING SLOWLY ESTABLISHING HEDGES
Operations:
- Timing: Cut back hard in June and September to encourage bushy growth down to ground level.
- Form: Allow to reach planned dimensions only by gradual degrees, depending on growth rate and habit.

REFORMING OF SHRUBS
Timing: After strong winds, frost heave and other disturbances.
Reforming: Tread around the base until firmly bedded.
PRUNING GENERALLY
Pruning: In accordance with good horticultural and arboricultural practice.
Removal of branches: Do not damage or tear the stem.
Wounds: Keep as small as possible and cut cleanly back to sound wood.
Cutting: Make cuts above and sloping away from an outward facing healthy bud, angled so that water will not collect on cut area.
Appearance: Thin, trim and shape each specimen appropriately to species, location, season, and stage of growth, leaving a well balanced natural appearance.
Tools: Use clean sharp secateurs, hand saws or other approved tools. Trim off ragged edges of bark or wood with a sharp knife.

REMOVAL OF DEAD PLANT MATERIAL
Operations: At the end of the growing season, check all shrubs and remove all dead all dead foliage, dead wood, and broken or damaged branches and stems.
DEAD AND DISEASED PLANTS
Removal: As soon as possible.
Replacement: In the next suitable planting season.
WEED CONTROL GENERALLY
Weed tolerance: At all times, weed cover less than 5% and no weed to exceed 100 mm high.
HAND WEEDING
General: Remove weeds entirely, including roots.
Disturbance: Remove the minimum quantity of soil, and disturb plants and mulched surfaces as little as possible.
Completion: Rake area to a neat, clean condition.
Mulch: Reinstate to original depth.

SOIL LEVEL ADJUSTMENT
Level of soil/mulch at edges of beds: Reduce to 50 mm below adjacent grass or hard surface. Arisings (if any) to be spread evenly over the bed.
MAINTENANCE OF LOOSE MULCH
Thickness (minimum): 50 mm.
Top up: Annually.
Mulch split on adjacent areas: Remove weeds and rubbish and return to planted area.
Weeding: Remove weeds growing on or in mulch by hand weeding.

HARD LANDSCAPE AREAS/FENCING
HARD SURFACES
Herbicide: Apply a suitable foliar acting or residual herbicide. Allow recommended period for herbicide to take effect before clearing arising.
Hard surfaces: Remove litter, leaves and other debris.
Surface gutters and channels: Remove mud, silt and debris.
Drainage gullies: Empty traps and flush clean.
Flexible bituminous pavings: In accordance with the original paving specification or BS 7370-2, clause 4.1.2.
Stain removal: In accordance with BS 7370-2, table 4.

FENCING
Fences: Inspect and repair to maintain protection against intruders.

EW1 Woodland Mixture:
(Emsgate Seeds EW1 or similar approved)
For uncultivated glade clearing

Wild Flowers 20%
1.00% Allium ursinum - Ramsons
2.00% Alliaria petiolata - Garlic Mustard
0.50% Angelica sylvestris - Wild Angelica
1.40% Anthriscus sylvestris - Cow Parsley
0.20% Arum maculatum - Lords-and-Ladies
4.00% Digitalis purpurea - Foxglove
0.10% Eupatorium cannabinum - Hemp Agrimony
0.90% Filipendula ulmaria - Meadowsweet
1.50% Galium album - Hedge Bedstraw
0.10% Geum urbanum - Wood Avenas
1.60% Hyacinthoides non-scripta - Bluebell
0.10% Primula vulgaris - Primrose
1.00% Prunella vulgaris - Selfheal
0.40% Ranunculus acris - Meadow Buttercup
3.00% Silene dioica - Red Campion
0.20% Teucrium scorodonia - Wood Sage
20%

Grasses 80%
2.40% Agrostis capillaris - Common Bent (w)
1.60% Anthoxanthum odoratum - Sweet Vernal-grass (w)
0.80% Brachypodium sylvaticum - False Brome (w)
48.00% Cynosurus cristatus - Crested Dogtail
16.00% Deschampsia cespitosa - Tufted Hair-grass (w)
15.20% Festuca rubra - Red Fescue
6.40% Poa nemoralis - Wood Meadow-grass

Note: REFER TO SPECIFICATION FOR SOWING RATES

Standard General Purpose Meadow Mixture:
(Emsgate Seeds EW1 or similar approved)
For uncultivated glade clearing

Wild Flowers
% Latin name Common name
0.3 Achillea millefolium Yarrow
0.5 Centaurea nigra Common Knapweed
1.3 Daucus carota Wild Carrot
3 Galium verum Lady's Bedstraw
0.5 Knautia anensis Field Scabious
0.2 Leontodon hispidus Rough Hawkbit
0.5 Leucanthemum vulgare Oxeye Daisy
0.5 Lotus corniculatus Bird's-foot Trefoil
2.5 Malva moschata Musk Mallow
1 Plantago lanceolata Ribwort Plantain
1 Primula veris Cowslip
1.7 Prunella vulgaris Selfheal
1.5 Ranunculus acris Meadow Buttercup
2.5 Rhinanthus minor Yellow Rattle
20%

Grasses
% Latin name Common name
8 Agrostis capillaris Common Bent
4 Cynosurus cristatus Crested Dogtail
28 Festuca rubra Red Fescue
4 Phleum bertolonii Smaller Cat's-tail
80%

Note: REFER TO SPECIFICATION FOR SOWING RATES

PLANT SCHEDULE
Species **Size & Spec.** **Spacing** **No.**

Trees
Sorbus aucuparia 14-16cm, EHS 4.4-5m height, 2m clear stem 1
Native Multistem Shrub
Corylus avellana C25, 2-2.5m, min 3 breaks 3
Native Hedge
Crataegus monogyna 50% 2+1, 120-150, BR 5/lin m 100
Prunus spinosa 50% 2+1, 120-150, BR 5/lin m 100
planted in double staggered row
Native Shrub Mix
Cornus sanguinea 60-90 BR 1m ctr / 1.2m2 30
Corylus avellana 60-90 BR 1m ctr / 1.2m2 8
Euonymus europaeus 60-90 BR 1m ctr / 1.2m2 8
Ligustrum vulgare C1, 200-300 1m ctr / 1.2m2 8
Rosa canina C1, 200-300 1m ctr / 1.2m2 6
Sambucus nigra 60-90 BR 1m ctr / 1.2m2 13
Viburnum opulus 60-90 BR 1m ctr / 1.2m2 25
planting at 1m centres to allow foraging (1.2m2)

Native Groundcover
Ajuga reptans C1, well developed in pot 7/m2 44
Geranium sanguineum C1, well developed in pot 7/m2 44
Hedera helix C1, well developed in pot 7/m2 44
Ornamental hedge
Euonymus 'Green Spire' 20-30, C2, bushy 5 lin m 218
Shrubs
Berberis darwinii 'Compacta' 30-40, C10, bushy 1.5m2 13
Euonymus fortunei 'Emerald Gaiety' 30-40, C10, bushy 1.5m2 13
Lonicera ligustrina var. pileata 20-30, C2, bushy 7/m2 78

Ornamental Grasses
Calamagrostis x acutifolia 'Karl Foerster' C10 50-60, well developed 12
Helictotrichon sempervirens C10 50-60, well developed 12
Miscanthus sinensis 'Gracillimus' C10 50-60, well developed 12
Miscanthus 'Yakushima Dwarf' C10 50-60, well developed 12

Perennials
Achillea millefolium 'Lilac Beauty' C2, well developed as shown 9
Helenium 'Kupferzweig' C2, well developed as shown 9

Ground cover
Hedera helix C2, well developed 7/m2 80
Berberis 'Bressingham White' C2, well developed 7/m2 60
Geranium x oxianum 'Wargrave Pink' C2, well developed 7/m2 155

Landscape Legend

- Existing Trees
- Proposed Tree - refer to planting schedule
- Planting - Native Multi-stem Refer to plant schedule
- Planting - Native Shrub Buffer Refer to plant schedule
- Planting - Native Scrub Buffer Refer to plant schedule
- Planting Refer to plant schedule
- Planting - Native Hedge Refer to plant schedule
- Planting - Hedge Refer to plant schedule
- Amenity Grass
- Meadow grass (Woodland mix) Refer to plant schedule
- Meadow grass (Standard General Purpose Meadow Mixture) Refer to plant schedule
- Paving - Permeable vehicular block paving, size and depth to suit use class, colour, finish refer to Engineer's detail and specification for bedding and bases
- Surface - Tarmacadam refer to Engineer's detail and specification
- Gravel margin
- Fencing - 2m height metal palisade fencing
- Fencing - 1.2m height timber post and rail fencing

Refer to Arboricultural reports for details of root protection areas and tree protection

Contractors are not to scale from this drawing. All dimensions are to be checked on site. Any discrepancies, ambiguities and/or omissions between this drawing and information given elsewhere are to be reported to this office for clarification before proceeding.

Stages:
PLANNING

Project Title:
Emsworth Business Park,
North St, Emsworth
Drawing Title:
Landscape Plan

Scale:
1:200@A0
Date:
July/24
Drawing Number:
M444-200
Revision:
P3
Comments:
1 - Gaietree240718gas main hole depths COPY.dwg
2 - Arbolite24072411229173_000010_P01 site plan COPY.dwg