

1 No. Tilia europaea

Grass / wildflower areas to swales and site edges to be seeded with Emmorsgate Mix EM7, to introduce local coastal species such as Kidney Vetch, Ladies Bedstraw etc. Maintenance minimised to 2no cuts per year to allow natural immigration of local species to occur over time.

Native hedge
104 No. Acer campestre 10%
104 No. Corylus avellana 10%
413 No. Crataegus monogyna 40%
52 No. Ilex aquifolium 5%
155 No. Prunus spinosa 15%
104 No. Rosa canina 10%
104 No. Sambucus nigra 10%

9 No. Geranium macrorrhizum 'ingwersen's variety'
2 No. Betula pendula

Existing tree growing on fence line to be retained but monitored for future retention.

ACACIA AVENUE

30 No. Armeria maritima
31 No. Oenothera lindheimeri

PROPOSED BUILDING

Planting buffer to south east boundary comprising native hedging, trees and wildflower meadow to provide screening of building and pleasant outlook for patients.

17 No. Geranium macrorrhizum 'ingwersen's variety'
18 No. Chiosya ternata 'White Dazzler'
26 No. Sipa tenuissima
17 No. Potentilla fruticosa
14 No. Hydrangea arborescens 'Annabelle'

1 No. Sorbus aria

Existing group of trees growing off site to be retained.

Native hedge
28 No. Acer campestre 10%
28 No. Corylus avellana 10%
111 No. Crataegus monogyna 40%
14 No. Ilex aquifolium 5%
42 No. Prunus spinosa 15%
28 No. Rosa canina 10%
28 No. Sambucus nigra 10%

1 No. Prunus padus

Existing trees growing off-site to be retained.

AFAN WAY AA241

PLANTING SCHEDULE

Table with 4 columns: Number, Species, Girth, Specification. Lists trees like Betula pendula, Malus sylvestris, Prunus padus, Sorbus aria, Sorbus aucuparia, Tilia europaea.

Table with 6 columns: Number, Species, Height, Pot Size, Specification, Density. Lists shrubs like Chiosya ternata, Geranium macrorrhizum, Hydrangea arborescens, Potentilla fruticosa, Sipa tenuissima.

Table with 4 columns: Number, Species, Pot Size, Specification, Density. Lists herbaceous plants like Oenothera lindheimeri.

Table with 4 columns: Number, Species, Pot Size, Specification, Density. Lists grasses like Armeria maritima.

Table with 5 columns: Number, Species, Height, Specification, Percentage Contribution. Lists native hedge species like Acer campestre, Corylus avellana, Crataegus monogyna, Ilex aquifolium, Prunus spinosa, Rosa canina, Sambucus nigra.

Hedge planting to be established in double staggered rows, 300mm between rows, plants equally spaced with 5no plants per linear metre.

LEGEND

- Existing surveyed trees to be retained and protected in accordance with BS 5837:2012 as required and in accordance with the Arboricultural Report.
Existing trees to be removed as part of the development.
Existing groups of trees / vegetation / hedges to be retained and protected in accordance with BS 5837:2012.
Existing groups of trees / vegetation / hedges to be removed as part of the development.
Proposed tree planting. Refer to schedule for details.
Proposed hedge planting. Refer to schedule for details.
Proposed shrub planting to include pollinators. Refer to schedule for details.
Proposed wildflower seed mix to be Emmorsgate Mix 'EM7 Meadow Mixture for Sandy Soils' sown at the recommended rate of 5g/m2. To be left uncut and strimmed only twice per year.

Notes about birds breeding season and tree removal: It is recommended that vegetation which needs to be removed is done prior to the bird breeding season. (1st March to 31st August). If this is not possible within this period, the vegetation removal should be carried out under the supervision of an Ecologist.

If birds are found to be breeding in the vegetation which needs to be removed then vegetation removal in the area surrounding the nest must be delayed until the eggs have hatched and the young birds have left the nest.

Tree planting to be double staked using 75mm diameter pointed softwood stakes treated with Tanalith E Class 4.0. Stakes to be driven into ground 1500mm below finished soil level and be 600mm above ground. Trees to be secured to stakes using adjustable rubber tree ties.

Hedge planted in double staggered row into 450mm topsoil on 400mm subsoil fully relieved by hand or machine to full depth. Topsoil to be mixed with approved planting compost 80 litres per 4sq m worked into top 200mm. Include for Enmag slow release fertilizer at 20 grams per plant. 50mm layer of approved bark mulch to surface.

Shrub planting on 450mm topsoil on subsoil min 400mm deep relieved by hand or machine to full depth with 50mm approved bark mulch to surface.

GreenBlue Urban ReRoot 1000 root barrier system within 6M of all service locations installed in compliance with manufacturers installation instructions.

GreenBlue Urban Root Rain urban irrigation system RRURB1.

1 x 1 x 1m tree pit backfilled firstly with site won subsoil [700mm] and then site won or imported topsoil [300mm]. Topsoil to BS3882 thoroughly mixed with Melcourt Topgrow Planting Compost in ratio 2:1 as specified. Include for Enmag slow release fertilizer at 100gms per pit, and backfill in 150mm layers firming in before next layer is added. Break up bottom of pit 200mm deep and sides where root barrier is not installed.

Typical section through tree pit / hedge / shrub planting / grass. Scale 1:25

Planting Specification

All work and materials shall be in accordance with current British Standards components and to Code of Practice.

SITE CLEARANCE

- Remove general builders rubble, litter and any stones greater than 75mm in size from the areas to be planted. Such materials are to be collected and taken to the Contractors tip or disposed of on site as directed.

EARTHWORKS

Planting Areas

- Approved topsoil, both site won and imported, shall be laid onto site and spread evenly on the approved formation to give a finished depth of 150mm for grassed areas, 450mm for shrub planted areas and 1000mm depth for tree pits. All topsoil to be placed on a minimum of 300mm depth of subsoil.
Finished levels of topsoil in grassed areas to be 25mm above adjoining paving. Finished level of topsoil in shrub beds to be 50mm lower than adjacent edge to allow planting of bark mulch.
Supply and spread approved fertilizer such as SAI Enmag or similar standard at the rate of 70g/m2 to be worked into top 200mm.

CULTIVATIONS AND PLANTING

Planting Areas

- Shrub beds shall be cultivated prior to planting to produce a medium tilth and all weeds, stones and other debris arising from this work are to be collected and removed from site.
Spread approved tree and shrub planting compost over the planting beds at a rate of 20 litres/m2 and work into the top 200mm.
Shrubs to be sited in locations, numbers and densities shown in the planting schedule and on the soft landscape drawings. Shrubs to be placed to achieve an even spacing and matching of shapes. All shrubs are to be planted at the depth at which they have previously been growing, allowing for soil settlement after planting.
Surfaces of shrub planting areas shall be left clean and neat with a raked surface between the planting during and on completion of planting.
Immediately after planting all containerised plants shall be watered with 5 litres of water per plant.
All grass edges to be cut vertically with an edging iron to a depth of 100mm. Resilient edges to be clean and straight or an even smooth radius. Edges to be left neat and tidy with ground on shrub side meeting cut face at an even gradient. All cuttings to be removed from site.
A 50mm layer of mulched conifer bark to be spread over planting areas and tops of tree pits, at least 75% of which shall exceed 60mm particle size and shall contain a minimum of wood particles, the bark is to be pest, disease and weed free.

Minor Grading

- Finished levels of amenity grass areas to be 25mm above adjoining paving or kerbs. Levels to be arranged to give gentle falls for drainage purposes.
New areas to be matted in to adjoining soiled areas.

Final Cultivations

- The surface for seeding should be 25mm deep and free from weeds and stones.
All weeds, stones and other debris arising from this work shall be collected and removed from site to the Contractors tip.

Sowing

- Grass Seed Mixes
Emmorsgate Seeds Ref. 'EM7 Meadow Mixture for Sandy Soils' sown at recommended rate of 5g/m2, or similar approved.

Procedure

- The Contractor shall purchase fresh grass seed each season throughout the contract period. The grass seed shall be made up of certified seeds under EEC regulations. The seed shall have a certified germination of not less than 10% and a certificate of purity of not less than 90%. Total weed seed and other crop seeds content shall not be more than 15. Seeds shall be obtained at least 21 days before sowing.
The Contractor shall be required to submit certificates for all deliveries of grass seed stating the seed source, mixture percentage, percentage purity and germination period. All seed shall be delivered in original sealed bags.

- Trees to be planted in pit to a depth and orientation related to the original growing position in the nursery and backfilled with the excavated topsoil mixed with approved tree and shrub planting compost in the following amounts: Feathered trees - 90 litres/tree, Standard trees - 95 litres/tree, Heavy standard trees - 120 litres/tree, Semi-mature trees - 150 litres/tree.
Trees to be tied to the supporting stakes with adjustable reinforced rubber tree ties with solid rubber spacers, positioned at an approved point suitable to the habit of the tree.
Proposed trees within 3m distance from buildings or services, or within 2m of roads/parking areas are to have root barriers installed.
Water to be applied to all trees and transplants on the same day as planting. Feathered trees - 36 litres/tree, Standard trees - 36 litres/tree, Heavy Standard trees - 42 litres/tree, Extra Heavy standard - 48 litres/tree.

Grass Seeding

- Areas for seeding to have topsoil depths of min. 150mm apart from wildflower areas where seed should be sown directly onto subsoil.
One month prior to sowing, areas shall be harrowed to a depth of 100mm followed by chain harrowing to a depth of 50mm to produce a fine tilth. Finished surfaces to be rolled with a Cambridge roller.
All weeds, stones and other debris arising from this work shall be collected and removed from site to the Contractors tip.

Minor Grading

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New areas to be matted in to adjoining soiled areas.

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The Contractor shall be required to submit certificates for all deliveries of grass seed stating the seed source, mixture percentage, percentage purity and germination period. All seed shall be delivered in original sealed bags.

- Amenity grass seed mixes are to be sown onto a minimum of 150mm depth of topsoil on min. 300mm subsoil.
After sowing, all amenity grass areas are to be consolidated using an approved type ringed roller.
Sowing shall be carried out in suitable weather conditions in transverse directions. After sowing, ground to be lightly raked and all stones over 12mm gauge shall be removed.

Turfed Areas

- Ensure soil below is prepared correctly, level and lightly watered before laying the turf. Each row of turf should be laid so that joints are offset by min 300mm. Start laying along a straight side in a row butt joining the ends tightly together.
Do not stretch the turf, always push the turf into a joint. Avoid gaps, but if they do occur fill them in with a light soil/sand mixture. Ensure complete contact between the soil and the underside of the turf and if necessary use a flat board or head of a rake to lightly firm down the turf.
Immediately after laying, start watering. Ensure that the new turf is never short of water. Water repeatedly for at least two weeks and/or until the turf is well established. Once established, weekly watering during dry periods should be adequate. First cut to be undertaken once grass sward is long enough to cut.

Grass Subsidence/Damage

- Any subsidence of seeded or turfed areas below the specified levels shall be made good and re-seeded. These works shall be rectified at the Contractor's expense.
The Contractor shall make good any damage caused by work personnel, plant or material whilst carrying out and maintaining the work on site.

Watering

- Contractor shall be entirely responsible for all watering necessitated by dry weather and it shall be undertaken by stationary rotary spray.

Completion

- Grass areas shall be accepted as having reached practical completion only when germination has proved satisfactory and healthy weed free swards have been established.

Maintenance

- The Contractor shall be responsible for the maintenance of the planting and grassed areas for a 12 month period following the completion of the works and will be responsible for any defects due to faulty materials, including plant failures, or workmanship during this time.
The Contractor shall carry out maintenance work at suitable intervals and in suitable weather conditions.

Firming in

- 48 hours notice in writing shall be given before commencement of any maintenance operations. Failure to do so will result in non payment for any supposed work carried out.

Litter Collection

- Whole site to be kept in a clean and tidy condition throughout the establishment period. Litter to be removed from site. Allow 20 no. visits per year.

Defects Liability Period

- Any trees, shrubs and grass found to be defective or missing for any reason before practical completion shall be replaced by the Contractor entirely at his own expense.
Thereafter any failures within 12 months of the date of practical completion shall also be replaced to the original specification by the Contractor entirely at his own expense, in the next planting season.
Thereafter any failures within the next 4 years shall also be replaced to the original specification in accordance with the planting conditions.

Weed Control

- Keep shrub beds and areas around trees free from annual and perennial weeds by hand weeding. All arisings to be removed from site. Allow 7 no. visits per year.
Apply translocated herbicide to shrub beds using weed wiper. Allow 3 visits a year with dead weed growth removed after each visit.

Mulch

- Bark mulch to be reinstated to original depths at the end of each growing season. Allow 1 no. visit per year.

Watering

- All planting shall be watered with a low pressure hose during dry spells, within the first year of growth only at the following rates: Feathered/standard trees - 36 litres/tree/visit, Heavy standard trees - 42 litres/tree/visit, Semi-mature trees - 48 litres/tree/visit, Shrubs - 5 litres/plant/visit.

Fertiliser

- At the end of the establishment period, 30gms of slow release fertilizer to be applied around each plant. Allow 1 no. visit at end of Year 2.

Grass Cutting

- Areas sown with amenity mix (6no. visits between April and October. Grass areas to be cut to a height of c.60mm. NB. In drought conditions adjust cutting heights to c.80mm. In very wet conditions, all operations involving grass cutting shall cease until conditions allow operators to continue without damaging the surfacing, levels and contours of the ground. Allow for sweeping clean of all paths and roads of grass cuttings at each mowing.

Firming in

- All plants and tree stakes loosened by planting operations, wind or frost shall be firmed in. Allow 1 no. visit per year.

Litter Collection

- Whole site to be kept in a clean and tidy condition throughout the establishment period. Litter to be removed from site. Allow 20 no. visits per year.



Table with 6 columns: REV., DESCRIPTION, DATE, REV., DESCRIPTION, DATE. Contains revision history for the drawing.

IMPORTANT CDM / H&S NOTE
The designers would draw the readers attention to any residual construction health and safety hazards that have not been eliminated from the designs shown on the drawings by the design process. These hazards are identified below.
Working on or adjacent to the public highway.
Working close to water bodies during storm conditions.



Table with 2 columns: PROJECT, DRAWING TITLE, DRAWING No., SCALE (A1), DATE, DRAWN, CHKD. Contains project details for Stationary House, Acacia Avenue, Port Talbot.