Planting Schedule

Trees

Plan Ref	Species	Girth (cm)	Height (cm)	Root Zone	Specification	Quantity
Ac	Acer campestre (Field Maple)	8-10 cm	250-300	2 X RB	Standard	2
Pav	Prunus avium (Wild Cherry)	8-10 cm	250-300	2 X RB	Standard	4
Qr	Quercus robur (English Oak)	8-10 cm	250-300	2 X RB	Standard	3

All Standard trees and above to be Clear Stemmed to 1.8m

Native Shrub Planting - Planted in random groups of 10-15 No. at 1.0m Ctrs

Plan ref	Species and % mix	% Mix	Form	Height (cm)	Specification	Quantity
Ac	Acer campestre (Field Maple)	5	6-8cm Lht Std	250-300	Light Std BR 2X 3	33
Cm	Crataegus monogyna (Hawthorn)	35	Transplant	60-80	BR 1 + 1	233
Cs	Cornus sanguinea (Dogwood)	10	Branched 3 Brks	60-80	BR 1 + 2	66
Cav	Corylus avellana (Hazel)	15	Branched 2 Brks	40-60	BR 1 + 1	100
Iaq	Ilex aquifolium (Holly)	5	Bushy 3 Brks	40-60	3L pot Bushy 3 Brks	33
Pav	Prunus avium (Wild Cherry)	5	6-8cm Lht Std	250-300	Light Std BR 2X 3	33
Psp	Prunus spinosa (Blackthorn)	15	Branched 2 Brks	60-80	BR 1 + 1	100
Qr	Quercus robur (English Oak)	5	1 + 1	80-100	BR	33
Vo	Viburnum opulus (Guelder Rose)	5	Branched 3 Brks	60-80	BR 1 + 2	33

Native Hedge Planting - Planted in random groups of 5-15 No. as a double staggered row at 500mm centres with 500mm between rows. 4/ linear metre

Plan Ref	Species	% Mix	Form	Height (cm)	Specification	Quantity
Ac	Acer campestre (Field Maple)	10	Transplant	60-80	BR 1 + 1	9
Cm	Crataegus monogyna (Hawthorn)	40	Transplant	60-80	BR 1 + 1	36
Cs	Cornus sanguinea (Dogwood)	20	Branched 3 Brks	60-80	BR 1 + 2	18
Cav	Corylus avellana (Hazel)	15	Branched 2 Brks	40-60	BR 1 + 1	14
Iaq	Ilex aquifolium (Holly)	10	Bushy 3 Brks	40-60	3 L Bushy 3 Brks	9
Vo	Viburnum opulus (Guelder Rose)	5	Branched 3 Brks	60-80	BR 1 + 2	5

As indicated on plan Other Neutral Grass areas to the easement to the east of the development to be sown with Emorsgate Basic General Purpose Meadow Mixture (EM1), including Wildflowers, at a sowing rate of 4g/m2.

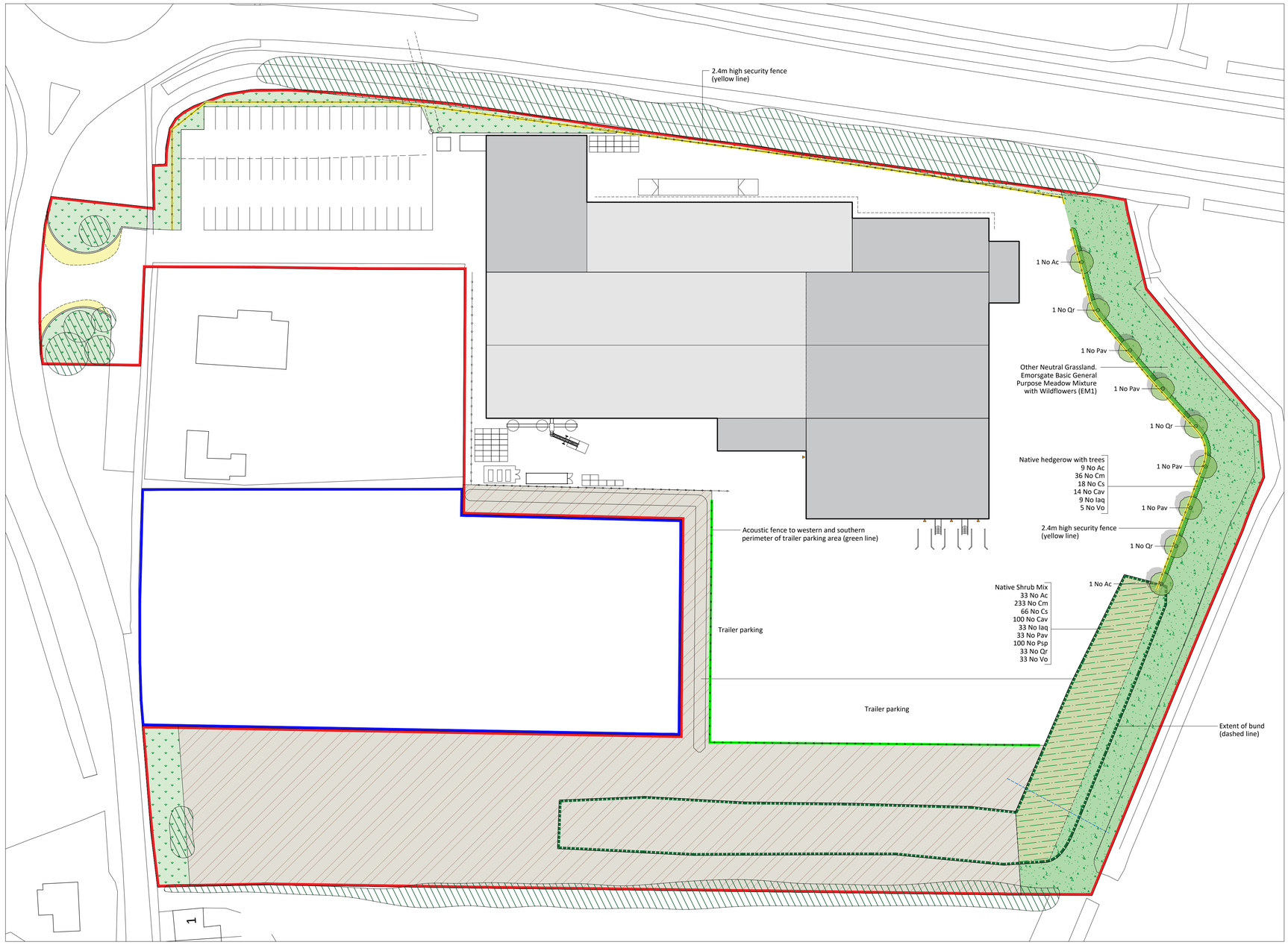
Emorsgate Basic General Purpose Meadow Mixture with Wildflowers - EM1

%	Species
Wildflowers 10	
1.5	Centaurea nigra - Common Knapweed
0.6	Daucus carota - Wild Carrot
0.5	Galium verum - Ladys Bedstraw
1.5	Leucanthemum vulgare - Oxeye Daisy
1.5	Malva moschata - Musk Mallow
1.9	Plantago lanceolata - Ribwort Plantain
1.5	Poterium sanguisorba spp sanguisorba - Salad Burnet
0.5	Rhinanthus minor - Yellow Rattle
1.5	Silene dioica - Red Campion
Grasses 90	
9	Agrostis capillaris - Common Bent
31.5	Cynosurus cristatus - Crested Dogtail
27	Festuca rubra - Red Fescue
4.5	Phleum bertolonii - Smaller Cats-tail
18	Poa pratensis - Smoothstalked Meadow Grass

Emorsgate Seeds, Neeps Bridge Farm, Middle Drive, Wisbeech, Cambridgeshire, PE14 8JT Tel: 01553 829028, Email: enquiries@emorsgateseeds.com

Key

Existing modified grassland · Existing trees · Native Shrub Mix · General Purpose Meadow Mixture with Wildflowers (Emorsgate EM1 or similar approved) · Bare earth · Hedgerow Trees · Native Hedgerow



Summary Landscape Specification

EXISTING TREES AND SHRUBS

Where any existing trees and or hedgerows and shrubs associated with the proposed development are to be retained it is recommended that such retention is in accordance with and subject to the recommendations of a full arboricultural condition survey and inspection for safety.

Any surgery required shall be in accordance with BS 3998 (2010) 'Tree Work - Recommendations', shall comply with any existing T.P.O. / Conservation Area requirements and shall require approval of the Landscape Architect and as appropriate the relevant Local Planning Authority prior to undertaken any works.

Avoid damage to branches, trunks and roots of trees. All existing trees and hedges to be retained are subject to BS 5837 (2012) 'Trees in Relation to design, Demolition and Construction - Recommendations' and must be fully fenced off, prior to the commencement of any works, in accordance with Figures 2 & 3 (p.20-21) at the full extent of the root protection area, as determined by Section 4.6 (P.10-11) and Annex D (P. 40).

No storage of materials, disposal of rubbish, site fires, spillage of oil and chemicals, groundA compaction, excavation, mechanical cultivation or changes in level shall be carried out within existing tree/hedge canopies or fenced root protection areas.

PLANTING

All plants and planting shall comply with the requirements of all current/relevant British Standard specifications including BS 3936: Part 1 (1992), Part 2 (1990), Part 4 (2007), Part 7 (1989), Part 9 (1998), Part 10 (1990) unless such specifications contradict Biodiversity objectives, BS 4043 (1989) where applicable and BS4428 (1989). All plants to be supplied in accordance with the plant schedule. Tree Planting will be in accordance with: BS 8545:2014 Trees: from nursery to independence in the landscape - Recommendations. Any plant material planted outside the recognised planting season (Nov-Feb) is to be containerised stock and supplied at the sizes specified. Planting during hard frosts should be avoided. All plants shall conform be in accordance with the National Plant Specification. Supplying nurseries shall be Registered under the HTA Nursery Certification Scheme. All plants shall be packed and transported in accordance with the Code of Practice for Plant Handling as produced by CPSE. As far as practically possible to do so, all stock should be from the relevant provenance zone. Any reputable nursery can advise on provenance. Bare root transplant stock will be adequate for this proposal. Species, planting percentages, stock sizes and quantities of material are shown on the planting plan. During periods of storage bare rooted plants should be firmly heeled in to a prepared trench spreading the roots and covering with peat or topsoil.

Note: Due to the national concerns regarding Chalara dieback of ash (Chalara fraxinea) and the import and movement restrictions of this species, ash trees are excluded as a species choice within the planting scheme.

No plants are to be planted in locations that will cause obstruction and in particular in front of the gas / electric meter boxes to allow easy access. All Biodiversity Net Gain provision to be in accordance with BS 8683:2021: Process for Designing and Implementing Biodiversity Net Gain Specification.

TREE PLANTING

All trees are to be planted as shown ensuring a minimum of 5 metres from buildings and 3 metres from drainage and utility services and outside any easements and exclusion zones associated with services, pumping stations and utilities. Where planting is immediately adjacent to utility easements approval is to be sought from the relevant utility body to all proposed tree, hedge and shrub planting prior to implementation. Where necessary, root barriers are to be installed (supplier Greenleaf or similar approved), in accordance with Structural Engineers and manufacturers recommendations. Allow for the use of container stock during the period 1 April to 31 October, and field grown stock from 1 November to 31 March. Trees should be planted at the original root collar depth with allowance made for soil settlement and should be positioned centrally within the pit, the stem in an upright position.

TOPSOIL REQUIREMENTS

To BS 3882 (2015) and as qualified by any site specific project contract specification and or Employers requirements. All areas shall be cultivated to a minimum depth of 150mm. All weed, rubbish and stones over 50mm gauge shall be removed. Earth to be rolled as required and raked in two directions as directed by further sections in this specification. It is the Contractors responsibility to ensure that all underground services have been located and identified in advance of tree pit excavation. Root barriers are to be provided as directed by the project engineer.

Native Shrub/Hedge planting beds	- 450mm
Transplants pits	- 300 x 300 mm depth
Bush, Whip, small feathered tree pits	- 600 x 250mm depth
Light Standard tree pits	- 750 x 600mm depth
Standard/large feathered/Select Standard tree pits	- 900 x 600mm depth
Areas of Amenity Grass Seed Areas	- 150mm
Othe Neutral Grassland Wildflower Grass Areas -Easement Areas	- No topsoil necessary

Where necessary excavate any compacted ground or areas of hardstanding that may conflict with the proposed planting to a minimum depth of 450mm, break up base to a depth of 150mm and backfill with topsoil. Increase tree pit dimensions to ensure that tree pits are at least 75mm deeper and 150mm wider than the rootball/root spread. Break up bottom of pits to a depth of 150mm and dome to the centre of the pit. Compacted glazed sides of pits should be roughened to allow root penetration. Where the soil environment is in such a condition that would limit or restrict good tree growth topsoil should be imported into the site and spread and cultivated into the planting site. The topsoil specification should be in accordance with BS 3882:2015 Specification for Top Soil.

Any topsoil, be it existing or imported to be good quality loam, to be free from any stones greater than 50mm or pernicious or deleterious matter. Finished topsoil levels to be 25mm above adjoining paved areas and a minimum of 150mm below DPC of the adjacent building. Any shrinkage/settlement during any defects liability period to be rectified by the contractor. Full analysis of both existing and any imported topsoil is recommended prior to use to identify nutrient properties and content that may be detrimental to and inhibit establishment and growth. All landscaped areas are to be suitably rotavated to loosen subsoil to 300 mm deep at 600 mm centres in two directions and cleared of rubbish and builder's debris. Topsoil is to have adequate time to settle prior to the laying of turf. If not, gardens are to be rolled to ensure a suitable surface for laying.

TOPSOIL REQUIREMENTS

Applied to all newly planted areas, to manufacturers recommendations where appropriate:

1) Incorporate Alginure Soil Improver or similar approved. 1.5kg/m3 to tree pit backfill;
2) Incorporate Enmag CRF 11-21-9 granular fertilizer or similar approved 5-60gms/pit backfill and 25-125gms to structure planting beds;
3) Watering - as appropriate supply minimum 54 litres/tree and 4.5 litres/shrub at the time of planting. Refer to maintenance section for post planting requirements;
4) Weed Control - Use mechanical means and only where absolutely necessary apply approved herbicide to control weed growth to areas of proposed planting to kill off any existing vegetation to reduce competition to encourage early plant establishment. Spot treat noxious pernicious weeds where appropriate and avoid blanket treatment and allow period of time to elapse as recommended by the manufacturer before further cultivation. Repeat if only absolutely necessary to prevent regrowth. Lightly fork over all individual planting stations before planting in accordance with the above pit requirements.
5) Mulch - lightly fork over planted areas before applying a 75mm depth of 50-100mm grade bark mulch to all proposed native hedge planting, in accordance with horticultural best practice guidelines. Native tree, and shrub structure planting to be provided with a 50cm diameter bark mulch collar to each plant station and maintained weed free. Bark to consist of predominantly matured British Pine bark with a nominal particle size distribution of 5-35mm with 0% dust and fines and less than 5% wood content. The product shall be pest, disease and weed free and not have been treated with any additives. The product shall have been tested in accordance with the requirements of BS 4790:1987, for fire resistance. NB Watering to be carried out prior to the application of bark mulch.
6) Where instructed and part of Employers Requirements include a weed control membrane to hedge planting beds with weed control membrane mats applied to native structure planting as required. Maintain in a weed free state using hand weeding methods to avoid the use of herbicides.

PLANT MATERIAL TREATMENT

NB All to be British grown stock and fully hardened off.

Root Dip - Proprietary Root Dip applied to all bare rooted stock (1) at time of lifting at the nursery and (2) prior to planting.

Anti-Desiccant - At the discretion of the supplier/nursery proprietary anti desiccant to be applied to foliage of all containerised/rootballed material in leaf, specimen conifers and evergreens etc. (1) prior to transportation and (2) during any delay in planting.

Pruning - Allow for pruning all deciduous trees and shrubs by 1/3rd following planting at Landscape Architects direction or as instructed in the planting schedule.

Tree Stakes - Stakes to be vacuum pressure treated round, smooth and peeled Larch or Chestnut in accordance with the following requirements.

TREE STAKES, TIES & GUARDS

Any trees planted within grassed areas to be planted with appropriate non plastic conical strimmer guards. Stakes to be vacuum/pressure treated with TANALITH preservative to comply with the Treatment Code (TE/GF6), softwood, round, peeled, straight, free of projections and pointed at one end. Ties to be environmentally friendly NATURETIE by Toms Tree Ties or similar approved. Minimum length, number and thickness for bare root stock to be determined as follows:

Tree Type	Min dia	Overall Hght	Hght above grd	No. stakes	No. ties
Light Std 3.5/2.5m	75mm	1.5m	0.6	1	1
Std Trees 3.5/2.5m	75mm	1.5m	0.6	1	1

Native hedge and structure planting to be protected with suitable bio degradable spiral rabbit guards and support cane/timber tree stake. Allowance to be made for evergreen and bushy species to be protected with biodegradable mesh shrub guards and 750 x 25 x 25 timber stake and natural ties.

GRASS AREAS

BASIC GENERAL PURPOSE MEADOW MIXTURE (Emorsgate EM1 or similar approved) GRASS AND WILDFLOWER SEED

Do not spread topsoil to proposed Wildflower Grassland to Biodiversity Creation Area and Swales. Endeavour to use soil that is not highly fertile and does not have a problem with perennial weeds. Good preparation is essential to success so aim to control weeds and produce a good quality seed bed before sowing. To prepare a seed bed first remove weeds using repeated cultivation. Then plough or dig to bury the surface vegetation, harrow or rake to produce a medium tilth, and roll, or tread, to produce a firm surface. Where possible avoid the use of herbicides and only apply approved herbicide to control weed growth where areas have become overgrown and only if absolutely necessary to avoid the spread of noxious weeds. Avoid blanket treatment and spot treat pernicious perennial weeds and allow period of time to elapse as recommended by the manufacturer before further cultivation.

Seed is best sown in the autumn or spring but can be sown at other times of the year if there is sufficient warmth and moisture. The seed must be surface sown and can be applied by machine or broadcast by hand. To get an even distribution and avoid running out divide the seed into two or more parts and sow in overlapping sections. Do not incorporate or cover the seed but firm in with a roll, or by treading, to give good soil/seed contact.

Most of the sown meadow species are perennial and are slow to establish. Soon after sowing there will be a flush of annual weeds, arising from the soil seed bank. These weeds can look unsightly, but they will offer shelter to the sown seedlings, are beneficial to invertebrates, and they will die before the year is out. Resist cutting the annual weeds until mid to late summer, especially if the mixture contains Yellow Rattle, or has been sown with a nurse of cornfield annuals. Then cut, remove and compost. Early August is the preferred time. This will reveal the young meadow, which can then be kept short by mowing through to the end of March of the following year. Dig out any residual perennial weeds such as docks.

Once Established in the second and subsequent years EM1 sowings can be managed in a number of ways which, in association with soil fertility, will determine the character of the grassland. The best results are usually obtained by traditional meadow management based around a main summer hay cut in combination with autumn and possibly spring mowing. Meadow grassland should not be cut or grazed from spring through to late July/August to give the sown species an opportunity to flower. After flowering in July or August take a 'hay cut': cut back with a scythe, petrol strimmer or tractor mower to c 50mm. Leave the 'hay' to dry and shed seed for 1-7 days then remove from site. Mow the re-growth through to late autumn/winter to c 50mm and again in spring if needed.

PROTECTIVE FENCING

The contractor shall maintain any tree protective fencing to existing hedgerows until all the site works are completed. The contractor will then remove the fencing and reinstate the ground. The fencing will remain the property of the contractor. Within the area so fenced, the existing ground level shall be neither raised nor lowered in the vicinity of existing trees, all excavations shall then be carried out by hand. The Local Planning Authority shall be advised in writing when the protective fencing has been erected so that it can be checked on site before development commences and will then be maintained during the period of construction.

MAINTENANCE

The Contractor up until handover is to cut, maintain and water all landscaping, including making good any defects over trenches, etc. up to the issue of the Certificate of Practical Completion. Regular visits to maintain all planted areas in a weed and litter free condition using hand weeding methods. Where pernicious perennial weeds persist spot treat with appropriate approved herbicides applied to manufacturers recommendations. The widespread blanket use of herbicides is not permitted. Maintenance to include watering, pruning, pest and disease control and re-mulching as required. Amenity Grass areas are to be mowed at regular intervals during the growing season. Cut grass areas to ensure the height of growth does not exceed 75mm at any time. Cut as and when necessary to a height of 35mm and remove all arisings. Before each cut remove all litter and debris. At the time of each cut trim all grass edges and remove arisings. Ensure sufficient water is provided to maintain healthy growth unless water restrictions are in place. Other Neutral Wildflower Meadow grass areas to is to be managed as described previously.

Native shrub and hedge planting areas shall be maintained as non-competitive weed free environment using hand weeding methods as appropriate to aid establishment and prevent competition. Persistent weeds and unwanted scrub shall be spot treated as necessary with an appropriate herbicide. The blanket use of herbicides is not permitted. Watering shall be carried out as necessary to maintain healthy growth subject to any statutory restrictions.

Watering to tree planting - The soil surrounding Light Standard and upwards tree stock should be inspected by appropriate personnel twice a week in the first growing season (Mar - Oct) following planting and watered as necessary, unless prevented by water restrictions, to ensure field capacity to allow establishment of the stock. Such inspections to be reduced to once weekly in years 2-3.

The Contractor shall take up and replace any shrub that has died or is not developing full foliage through its branches within 12 months of planting at no additional cost.

SAFETY PRECAUTIONS

The landscape contractor is to take all safety precautions to prevent any injury to any persons. They shall comply with the requirements of the current Health and Safety at Work Act and current Construction, Design and Management Regulations.

The landscape contractor shall notify the Landscape Architect immediately of any pernicious/notifiable weeds identified on the site and shall take all reasonable precautions to prevent the spread of such weeds.

Notes

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CDM 2015
This drawing is for illustrative purposes and/or obtaining the relevant planning permission only. It should not be used for construction and accordingly, risk identification under the Construction (Design & Management) Regulations 2015 has not been undertaken.

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Rev	By	Description	Date
-	-	-	-

Current revision checked by: -

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Client
Nationwide Produce PLC

Project
Extension to existing building
Cowpers Gate, Long Sutton

Drawing
Proposed Planting Plan

Scale @ A1	Date
1: 500	14/08/24
Drawn By WW	**Checked By** -

Job Number	Status	Purpose of Issue
889-8	CC	Condition Compliance

Drawing No. 889-8_CC_PP01 **Rev** -