

SOFT LANDSCAPE WORKS

Information on soft landscape works includes:

- Protection and retention of existing tree and hedgerow vegetation and other features;
- New species-rich native hedgerow shrub planting;
- New tree planting; and
- Additional ecology measures.

i. PROTECTION AND RETENTION OF EXISTING TREE AND HEDGEROW VEGETATION AND OTHER FEATURES

- All existing trees and hedgerows are to be retained and entranceways utilised unless indicated otherwise;
- During construction and operation a minimum of 5m exclusion zone from existing trees, hedgerows and shrub vegetation (and any proposed vegetation) to limit any disruption and to avoid any root compaction to existing trees, shrubs and hedges during construction and operation;
- An exclusion zone to include the canopy of all retained trees will be implemented or 5m from the trunk (whichever is greater) to avoid any root compaction during construction and operation;
- Mature trees within hedgerows will require protection in accordance with BS5837:2012 Trees in Relation to Design, Demolition and Construction (Recommendations), where appropriate;
- Existing boundary hedgerows and trees shall be protected and delineated with coloured red and white tape so that it is clearly visible at all times during construction.
- During the construction phase of the project or any ongoing maintenance works no chemicals, including vehicle fuels or lubricants will be left on the site at night; and All operatives carrying out the works will be briefed prior to the works commencing on the locations, status and protection requirements for all retained vegetation and other features and be made aware of the secure storage and agreed pollution prevention plan. Appropriate pollution control equipment will be made available should accidental spillages occur.

ii. NEW SPECIES-RICH NATIVE HEDGEROW SHRUB PLANTING

General

- All new planting shall be carried out not later than the first planting season following the completion of the works;
- Plant material to conform to the National Plant Specification and comply with the requirements of British Standards 3936 Specification for Nursery Stock;
- All hedge planting shall be positioned in accordance with the requirements of Table A.1 of BS5837:2012 Trees in Relation to Design, Demolition and Construction (Recommendations);
- Plant handling to be in accordance with HTA Handling and Establishing Landscape Plants, Part I-III; and
- All planting to comply with the guidelines for setting out as detailed in the general notes and on the drawing.

Setting out

- The location of any overhead or underground services is to be checked on site by the contractor prior to any works being carried out;
- New species-rich hedgerow shrubs to be planted at 500mm centres in double staggered rows, 1.0m between rows at 4-5 plants per 1m; and
- All new hedgerow plants to be planted in a random mix in same species groups of 3-5 No.

New species rich native hedgerow shrub planting

- All transplants to be notch planted with the addition of slow release fertiliser;
- All container grown shrubs to be pit planted with the addition of slow release fertiliser;
- Proprietary root dip to be applied to all bare rooted stock at time of lifting at nursery and prior to planting;
- All transplants to be protected with bio-degradable shrub guards;
- All container grown shrubs to be protected by bio-degradable tree protectors; and
- Weed free zone maintained around base of each shrub by use of mulch to a depth of 75mm medium grade mulch (British origin, FSC certified).

iii. NEW TREE PLANTING

- All new planting shall be carried out not later than the first planting season following the completion of the works;
- Trees are to be planted in prepared tree pits, approximately 300mm greater than root ball/roots and wide enough to accommodate roots when spread. Soil loosened around the edges and bottom of tree pit to eliminate compaction and improve drainage. Tree pit backfilled with topsoil mixed with compost and slow release fertilizer, as directed by the manufacturer's instruction;
- As the trees are to be planted on the line of the proposed hedgerow the hedgerow shrubs are to be planted between the bases of the trees. The tree are to be protected by a bio-degradable tubular tree guard and should have a minimum 1m diameter circle around the base of the trunk to be maintained free from vegetation and spread with 75mm medium grade mulch (British origin, FSC certified). All mulch to be pest, disease and weed free and shall not have been treated with any additives. Mulch is not to be placed against the stem of the tree;
- All standard and feathered trees are to be supported by 1 No. 75mm x 1500mm diagonal softwood timber stake and 1 No. adjustable bio-degradable tree tie nailed to the stake. Stakes to be well driven into the ground at least a minimum of 300mm into bottom of the tree pit. Stakes to be pressure treated, round, peeled, smooth larch (minimum 100mm diameter), or similar; and
- Each standard and feathered tree is to be protected with a suitable bio-degradable spiral tree guard, appropriate to size of tree when planted.

iv. ADDITIONAL ECOLOGY MEASURES

- To prevent animals becoming trapped in excavations, any trenches or deep pits that are to be left open overnight will be provided with a means of escape should an animal enter. This could be achieved through the construction of a graded bank or the installation of a rough sawn timber board such as a scaffold board or similar, which will allow the animals to exit of their own accord. Any trenches or pits should be inspected each morning to ensure no animals have become trapped overnight. In the event that a trapped animal is encountered and the insertion of a means of escape proves futile, then the appointed ecologist should be contacted immediately to discuss an appropriate manner in which to proceed;
- Any ongoing management works such as hedge trimming or tree surgery will be carried out in the hibernation period during November to February when Dormice will be in below ground nests. Any large limbs will not be allowed to fall to the ground within the hedgerow but will be pulled clear to avoid crushing the hibernating Dormice; and
- Any hedgerow or scrub vegetation removal works which are part of the ongoing management works will generally be carried out outside the bird nesting season from 1st March to 31st August. If such works are required within this period a pre works check for nesting birds shall be undertaken by an ecologist and the works will be re-scheduled while appropriate action is completed.
- Any such works shall be scheduled to avoid the hibernation season for reptiles during November to February.

LANDSCAPE MANAGEMENT STRATEGY

Information on management works includes:

- Management of existing vegetation;
- Management of new species-rich native hedgerow shrub planting; and
- Management of tree planting.

i. MANAGEMENT OF EXISTING VEGETATION

- Should any existing hedgerow vegetation require to be trimmed, the works shall be carried out in the winter so avoiding the bird nesting season (between September and February inclusive). If required, the works shall be scheduled, approximately every 2-3 years, staggered around the site thereby retaining and encouraging flower/fruit during winter months for wildlife;
- Only one third of hedgerows around the site are to be cut in any one year so that at least some heavily fruiting hedgerows are always present;
- The previous seasons hedgerows growth is to be cut back by one third, or more if required to maintain the maximum height for the boundary hedges; and
- Mature trees on the boundary of the site are to be retained. Annual inspection of mature trees undertaken to remove any dead or dying branches (which may impact on safety and the viability of the development). No removal of trees/tree branches to take place without an appropriate ecological survey to ascertain any breeding bird or bat presence.

ii. MANAGEMENT OF NEW SPECIES-RICH NATIVE HEDGEROW SHRUB PLANTING

New hedgerow gap filling and hedgerow infill planting

- Two maintenance visits will be carried out each year for the first five years (in the Spring and Autumn) to ensure that all new hedgerow planting is firmly bedded in the ground after strong winds and frosts or other disturbances;
- During these visits an inspection of the new hedgerow planting will be made to ensure that all planting is free of pest damage or vandalism/damage caused by others and to maintain all planted areas in a weed free and litter free condition;
- At these times action will be taken to prune out any damaged, dead or dying branches and suckers to promote healthy growth and shape and check guards and tree protectors and replace/remove when required;
- Weed control measures will continue until canopy of plants is closed (either with herbicide or hand weeding) up to the end of the five year period;
- New hedgerow planting to be trimmed annually, where required, avoiding the bird nesting season (between September and February inclusive), but also retaining fruit during the winter months for wildlife, for the 5 years period, until the maximum height of the hedgerow is reached. Leader stems should not be cut until the maximum height of the hedgerow is reached; and
- Any new hedgerow plants which forms part of the approved landscaping scheme that fails to become established, becomes seriously damaged or diseased, dies or for any reason or is removed, will be replaced in the next planting season with others of similar size and same species.

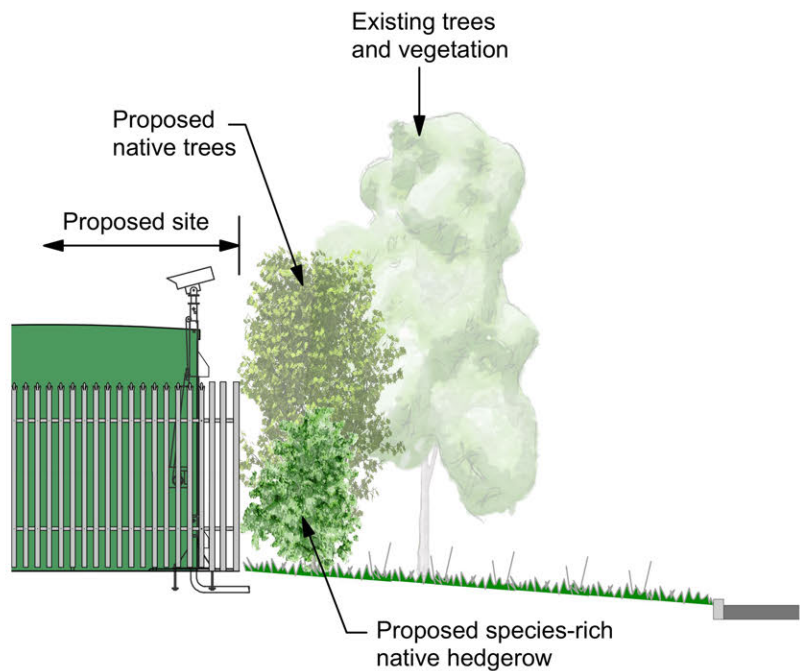
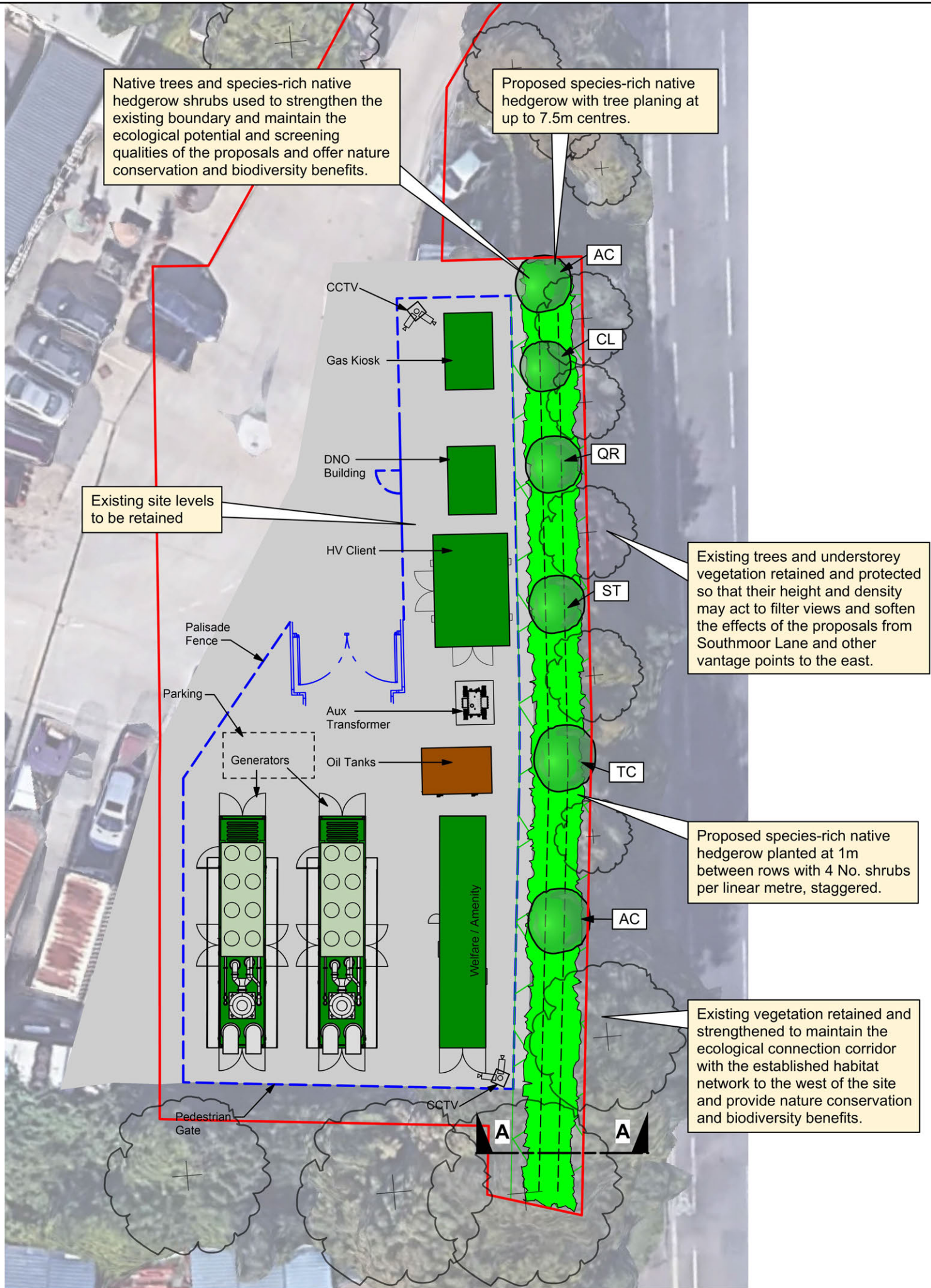
iii. MANAGEMENT OF NEW TREE PLANTING

General

- During the two maintenance visits an inspection will be made to ensure that all new trees are firmly bedded in the ground after strong winds and frosts or other disturbances;
- During these visits an inspection of the new tree planting will be made to ensure that all planting is free of pest damage or vandalism/damage caused by others and to maintain all planted areas in a weed free and litter free condition;
- At these times action will be taken to prune out any damaged, dead or dying branches and suckers to promote healthy growth and shape and check guards, stakes and ties on all trees and adjust if necessary;
- Weed free ring and growing within shelters will be maintained around each tree (either with herbicide or hand weeding) up to the end of the five year period;
- If excessive growth occurs between planting stations it may be necessary to strim or mow between plants; and
- Any tree which forms part of the approved landscaping scheme that fails to become established, becomes seriously damaged or diseased, dies or for any reason or is removed, will be replaced in the next planting season with others of similar size and same species.

PROPOSED SPECIES RICH NATIVE HEDGEROW WITH TREE PLANTING

Code	Species	Common name	Size (cms)	Type	Density	%	No
AC	Acer campestre	Field maple	200-250	Feathered, bare-root	1 @ >7.5m cts.	As shown	2
CL	Crataegus laevigata	Hawthorn	240-350	Standard, 8-10cm girth, 200cm clear stem, 30L pot	1 @ >7.5 1m cts.	As shown	1
QR	Quercus robur	English oak	200-250	Feathered, bare-root	1 @ >7.5m cts.	As shown	1
ST	Sorbus aria	Whitebeam	200-250	Feathered, bare-root	1 @ >7.5m cts.	As shown	1
TC	Tilia cordata	Small leaved lime	240-350	Standard, 8-10cm girth, 200cm clear stem, 30L pot	1 @ >7.5 1m cts.	As shown	1
-	Corylus avellana	Hazel	120-150	3 year old, bare-root transplant	Double staggered rows, 1.0m between rows (4 per 1m).	15	30
-	Crataegus monogyna	Hawthorn	120-150	3 year old, bare-root transplant	Double staggered rows, 1.0m between rows (4 per 1m).	25	50
-	Cornus sanguinea	Dog wood	80-100	3L pot	Double staggered rows, 1.0m between rows (4 per 1m).	5	10
-	Euonymus europaeus	Spindle	80-100	3L pot	Double staggered rows, 1.0m between rows (4 per 1m).	2.5	5
-	Ilex aquifolium	Holly	80-100	3L pot	Double staggered rows, 1.0m between rows (4 per 1m).	10	20
-	Ligustrum vulgare	Wild privet	80-100	3L pot	Double staggered rows, 1.0m between rows (4 per 1m).	10	20
-	Prunus spinosa	Blackthorn	120-150	3 year old, bare-root transplant	Double staggered rows, 1.0m between rows (4 per 1m).	20	40
-	Rosa canina	Dog rose	90-120	2 year old, bare-root transplant	Double staggered rows, 1.0m between rows (4 per 1m).	2.5	5
-	Sambucus nigra	Elder	120-150	3 year old, bare-root transplant	Double staggered rows, 1.0m between rows (4 per 1m).	5	10
-	Viburnum opulus	Gelder rose	40-60	2L pot	Double staggered rows, 1.0m between rows (4 per 1m).	5	10



Section A-A
scale 1:100

GENERAL NOTES:

This detailed soft landscape scheme has been designed with reference to The Town and Country Planning (Development Management Procedure) (England) Order 2015 Grant of Planning Permission to Application Number APP/20/00833 issued by Havant Borough Council and especially Condition number 4. Special regard has been taken to conform with policies CS11 and DM8 of the Havant Borough Local Plan (Core Strategy) 2011 and the National Planning Policy Framework.

This detailed soft landscape scheme should also be read in conjunction with Preliminary Ecological Appraisal, including Extended Phase 1 Habitat Assessment, Bat Scoping Assessment (July 2020) and Arboricultural Report, Tree Report for Planning Purposes (July 2020) Ref: 200637-PD-11 including the Arboricultural Method Statement / Tree Protection Plan by Tim Moya Associates.

This landscape masterplan has been designed to ensure a satisfactory landscaping scheme is implemented and maintained so as to ensure the successful establishment of the plants and in the interests of the character and biodiversity value of the area.

All works, including construction and management of the site will be carried out by the Developer (or by a nominated Contractor under the guidance of the Developer).

The long term objectives of the management of the site will be to:

- Retain, improve and enhance the existing mature tree and hedgerow vegetation on the eastern and southern boundaries of the site, to strengthen the existing boundary and maintain the ecological potential and maintain the ecological potential and screening qualities of the proposals and offer nature conversation and biodiversity benefits;
- Provide additional native trees and species-rich hedgerow planting on the eastern boundary as under-planting to the existing trees and shrubs that will filter views and soften the effects of the proposals from Southmoor Lane and other possible vantage points to the north-east and east.
- The strengthening of the existing tall hedgerow vegetation will help to maintain the ecological connectivity with the established habitat network to the west.
- The site will be managed to promote biodiversity. The trees and areas of hedgerow shrub planting could be used for foraging and nesting by various bird species and the strengthened hedgerows could also be used by foraging bats; and
- The Developer, or the nominated Contractor, will carry out all works in accordance with the relevant provisions of appropriate British Standards or other recognised Codes of Good Practice.

Key:

- Proposed development boundary

Existing Features

- Trees / vegetation to be retained and protected

Proposed Planting

- Native tree planting
- Species rich native hedgerow planting

PLANTING PROGRAMME

All landscape works should be completed, during the first appropriate season, following completion of the works. No planting or sowing should take place during very cold/frosty, windy, drought or waterlogged/wet conditions.

In particular:

- Any vegetation to be removed and any tree works should be outside the bird nesting season. The bird nesting season is from 1st March to 31st August;
- All bare root and root-balled stock should be planted from 31st October to 31st March;
- All container grown stock can be planted at any time of year but it is preferable to plant from 31st October to 31st March.

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Revisions:

000	02/11/21	First Issue	PS

Scale 1:250 @ A2
0 5 10 15m

Drawn : PS
Ref : P0474
Date : 02/11/2021

Checked : AEW
Revision : 000

Landscape Plan Figure 1

Proposed Flexible Power Generation Facility East of Southmoor Lane, Langstone

 **amalgam landscape**
T. 01275 627077
E. info@amalgamlandscape.co.uk
W. www.amalgamlandscape.co.uk