



Landscape Management Plan

Houghton Main TRRC

for:

Peel Environmental Limited

CRM.066.006.L.R.002



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Landscape Management Plan

Project:	Houghton Main
For:	Peel Environmental Limited
Status:	REVISION A
Date:	January 2018
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1.0 Introduction

Background

- 1.1 The Landscape Architecture department at Enzygo Ltd. has been commissioned by Peel Environmental Limited to prepare a Landscape Management Plan in conjunction with the soft landscape proposals for a “Renewable Energy Park comprising of a Timber Resource Recovery Centre and associated infrastructure” (Barnsley Metropolitan Borough Council ref. 2015/0137), to be located to the west of Houghton Main Colliery Roundabout, 7km east of Barnsley, South Yorkshire.
- 1.2 The Landscape Management Plan has been prepared to discharge Planning Condition 15 which requests *“A landscape management plan, including long term design objectives, management responsibilities and maintenance schedules for all landscape areas for a minimum of 5 years, shall be submitted to and approved by the Local Planning Authority prior to the occupation of the development or any part thereof, whichever is the sooner, for its permitted use. The landscape management plan shall be carried out in accordance with the approved plan.”*
- 1.3 This Landscape Management Plan should be read in conjunction with the Planting Details [refer to **Figures 1-2 – CRM.066.006.L.D.004 - 005**] and the Soft Landscape Specification.
- 1.4 The Landscape Management Plan will provide both the Contract Administrator and Contractor with sufficient production information in order to tender for the management of the project and therefore it will directly inform the maintenance of all soft landscape areas, including all retained areas of existing trees and shrubs.
- 1.5 All works should be undertaken in accordance with arboricultural recommendations, where available, with respect to existing trees to be retained. If the following specification conflicts with arboricultural advice please contact the Contract Administrator [CA] for further guidance.

The Site and Development Proposals

- 1.6 The site is situated within the Metropolitan Borough of Barnsley in a rural setting. Houghton Main Colliery Roundabout and Park Spring Road lie directly to the east, linking Grimethorpe in the north with Darfield in the south. A logistics centre is located on the opposite site of the roundabout, lending the location a commercial

character. A car park is currently being built between the roundabout and the eastern edges of the development site.

- 1.7 The floodplain of the River Dearne lies directly to the west of the site, influencing the north west corner of the site, its ground conditions and therefore any design proposals for this area.
- 1.8 A disused, dismantled and overgrown railway and associated embankment runs outside and along the northern boundary.
- 1.9 The application boundary [Red Line Boundary] for the site is approximately 3ha [7.5 acres] and is approximately triangular with narrow strips of land extending the site both in the north-east and south. It encompasses young pioneer vegetation with scattered mature trees along the site boundary, grassland and small areas of bare ground. Access into the site is from the westerly junction off Houghton Main Colliery Roundabout.
- 1.10 The proposed “Renewable Energy Park” comprises a Reception Hall, Process Building Turbine Hall and car parking in the triangular centre of the site, with associated hard surfacing and technical infrastructure along the perimeter, including a fire water tank, substation, fuel storage and standby generators. Traffic enters the site from the Houghton Main Colliery Roundabout in the east and uses a circular route proposed around the central processing facilities.
- 1.11 Existing vegetation will be removed within the centre of the site to facilitate the development, but large areas will be retained along the site boundaries and the north-eastern and southern extension to provide instant screening and opportunities for ecological enhancements, which also includes the creation of wetland habitat around a small group of proposed new ponds in the north.

Aims and Objectives

- 1.12 The overall aim of this management plan is to ensure the successful establishment of the planting proposals. The proposals seek to utilise existing site assets, improve biodiversity, provide long-term screening of the development and create a safe and practical environment for the users of the site, including employees and visitors.
- 1.13 Specific objectives for the site are:
 - To provide both short- and long-term screening of the site to mitigate any visual impacts the development may have on surrounding viewpoints.

- To retain and manage existing trees and vegetation complementary to the scheme, to ensure their long-term health;
- To ensure the ongoing maintenance of existing and proposed planting within the site ownership, and as part of mitigation measures, to guarantee health and vigour of plants and support local biodiversity;
- To provide the correct conditions for all planting to ensure successful establishment and long-term health;
- To maintain a safe environment and a clean and tidy appearance of all areas.

Structure of the Plan

- 1.14 Section 2 of this report will describe the 'design vision' of the landscape proposals and the different landscape compartments within the design, all of which will require different management proposals.
- 1.15 Following an initial description of general management proposals that apply to the entire site, Section 3 will set out the landscape management proposals within specific individual landscape compartments within the site. These landscape types are as follows:
- Retained Trees and Hedgerows;
 - Specimen Tree Planting;
 - Proposed Native Hedgerow and Shrub Planting;
 - Semi-Ornamental Groundcover Planting;
 - Waterbodies and Ponds;
 - Marginal and Aquatic Vegetation; and
 - Wildflower Meadows.

2.0 Design Vision

2.1 Purpose of the Design

- 2.1.1 The purpose of the soft landscape proposals is to provide mitigation for any impacts the development may have on both the site itself and on surrounding viewpoints. It will seek to promote biodiversity throughout the scheme and to provide a safe and practical environment for all users of the site. The scheme will endeavour to introduce proposals that are both resilient and feasible.

2.2 Description of the Design

- 2.2.1 By nature of the Brief, the design description [below] strives to fulfil the conditions set out by the Planning Authority, as well as meeting the design principles envisioned for the site.
- 2.2.2 In order to provide both short- and long-term screening of the site and to retain existing wildlife habitat, the semi-mature and mature vegetation along the site perimeter and within the southern and north-eastern extension will be retained, protected during construction and improved by additional planting. This will include the introduction of new native species suitable for the site to extend the range of habitats and species establishing on site.
- 2.2.3 In order to create a physical and visual boundary between the new car park to the east of the site and the development a native hawthorn hedge will be planted along the eastern site boundary, including native tree planting to increase the height of the screen and therefore the softening effect of the hedgerow.
- 2.2.4 Where existing vegetation comprises mainly pioneer species such as birch (*Betula sp.*) and goat willow (*Salix caprea*) along the northern boundary as well as in the southern and north-eastern site extension, it is proposed to plant native species known for a longer lifespan, such as oak and field maple (*Acer campestre*). These will be added to fill existing gaps in the vegetation to improve screening of the development site in the long-term.
- 2.2.5 Wildflower meadow will be established both along verges along the site's access routes and within a proposed wetland habitat around the new ponds in the north-east which is expected to increase the biodiversity on site. Marginal aquatic planting is proposed for the pond margins to supplement this.

- 2.2.6 A fringe of semi-ornamental groundcover planting is proposed along the edges of the car park in the north-west to define the car park edges and to prevent encroachment of native vegetation into the hard surfaced area.
- 2.2.7 All species included in the planting design for the site have been chosen to either supplement existing vegetation or to increase the range of native species on site. This strives to achieve a balance of blending in the proposals into the local landscape at the same time as increasing the biodiversity on site by providing habitat for a wider range of birds, insects and reptiles.
- 2.2.8 The key sub-compartments of the landscape design are as follows:
- Retained Trees and Hedgerows;
 - Specimen Tree Planting;
 - Proposed Native Hedgerows;
 - Semi-Ornamental Groundcover Planting;
 - Waterbodies and Ponds;
 - Marginal and Aquatic Vegetation;
 - Wildflower Meadows; and
 - Paths and Hard Surfaces.
- 2.2.9 Refer to **Figures 1 - 2** for Planting Details [**CRM.066.006.L.D.004 – 005**].

3.0 Landscape Management Operations

3.1 General Management

3.1.1 The following are general management operations that apply to the entire landscape proposals for the site:

General Principles
• All materials and workmanship to be of the highest standard and the contractor is to make good any planting defects; • Maintenance of hard standing areas including removal of litter and making good of damaged surfaces. Litter to be removed from site; • Unless otherwise stated, all clippings and grass cuttings are to be either composted on site at a designated location or removed to a composting area off site; • All planting areas to be watered as required during the summer months of years 1-5, particularly during periods of drought; and • Any approved and appropriate fertiliser to be applied to all newly planted areas (excl. wildflower meadow) in Years 1, 2 and 3 in early spring. • Thinning or tree removal, or hedge trimming should be undertaken outside nesting bird season which is March to August inclusive, unless approved by a suitably experienced ecologist.

3.2 Retained Trees and Hedgerows

Retained Trees

3.2.1 The following are management operations that apply to the retained tree planting areas. Undertake to ensure that trees remain in a healthy, attractive and safe condition.

Years 1-5	Year 6 onwards
• Checks on safety and condition of trees. • Undertake works as recommended by Arboriculturist to ensure continued health and safety of trees. • Safely remove dangerous or potentially dangerous trees.	• Checks on safety and condition of trees. • Undertake works as recommended by Arboriculturist to ensure continued health and safety of trees. • Safely remove of dangerous or potentially dangerous trees. NOTE: All checks and reports on trees to be carried out by a qualified Arboriculturist.

Retained Hedgerows

3.2.2 The following are management operations that apply to the retained hedgerows.

Undertake to ensure that the hedges remain in a healthy, attractive, dense and safe condition, as well maintain visual screen from the surrounding landscape.

Retained Hedgerows - General Principles

- Trim sides every 3 years with a rip-cutting blade on hedge cutter, or similar and approved.
- Trim tops every 6 years using a rip-cutting blade on hedge cutter, or similar and approved.
- Trim in January or February (after berries eaten but prior to bird nesting) to ensure dense growth and good form.
- Management of the hedge shall be carried out through routine cutting of alternative sides of the hedge at a maximum triennial cut, unless annual cutting is necessary to maintain clearances from public highways or private access roads.

NOTE: All checks and reports on trees to be carried out by a qualified Arboriculturist.

3.2.3 Retained hedges are to be checked annually and stopped-up as needed. All hedge works and Hedge Laying operations are to be conducted following consultation with the appointed arboriculturist.

3.2.4 Should standard trees be identified within the existing hedges, these shall be retained and formatively pruned as part of hedgerow management. All routine cutting of hedges should be cautious not to damage the retained trees.

3.3 Specimen Tree Planting

3.3.1 The following are management operations that apply to the specimen tree planting areas. Undertake to ensure that trees remain in a healthy, attractive and safe condition.

Years 1-5	Year 6 onwards
• Check guards and replace if necessary on annual basis. • Weeds cleared once at end of summer. • Residual herbicide to applied in at end of winter. • Aeration of compacted soils.	• Checks on safety and condition of trees. • Undertake works as recommended by Arboriculturist to ensure continued health and safety of trees. • Safe removal of dangerous or potentially dangerous trees.

- Regular investigations of failed growth of trees and subsequent removal and replacement. - Remove stakes and tree guards once establishment is deemed to be complete through site visits.	NOTE: All checks and reports on trees to be carried out by a qualified Arboriculturist.
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3.4 Proposed Native Hedgerows

- 3.4.1 The following are management operations that apply to new hedgerow planting, to supplement the existing hedges and for areas marked as 'Native Hedgerow' in the Planting Proposals. Undertake to ensure establishment and maintenance of healthy, dense and attractive hedge, with seasonal and ecological interest.
- 3.4.2 Following planting establishment checks will be undertaken annually during August/September for a period of 5 years, and any plants found to be dead, dying or diseased shall be removed and replaced as per the details found within the Landscape Specification, during the following planting season.
- 3.4.3 All hedges shall be allowed to grow on to and thereafter be maintained at a minimum height of 2 metres.
- 3.4.4 Management of the hedge shall be carried out through routine cutting of alternative sides of the hedge at a maximum triennial cut, unless annual cutting is necessary to maintain clearances and visibility splays from public highways or private access roads.

Years 1-5	Year 6 onwards
- Any dead or dying plants should be removed and replaced during the next available planting season. - Residual herbicide application at end of winter. - Plant areas to be weed free throughout summer. - Inspect annually; remove litter and debris, and repair supports etc. as required. - Establishment pruning in the first year, in January or February, to encourage bushy side growth, followed by light trimming until established.	- Remove supports. - Trim sides every 3 years with a rip-cutting blade on hedge cutter, or similar and approved. - Trim tops every 6 years using a rip-cutting blade on hedge cutter, or similar and approved. - Trimming should be undertaken in January or February (after berries eaten but prior to bird nesting) to ensure dense growth and good form. NOTE: All checks and reports on trees to be carried out by a qualified Arboriculturist.

- Trim sides every 3 years with a rip-cutting blade on hedge cutter, or similar and approved. - Trim tops of hedges in January or February of closing year [Year 5] of contract, or similar and approved.	
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3.5 Semi-Ornamental Groundcover Planting

3.5.1 The following are management operations that apply to both 'ornamental planting - mixed borders' and 'ornamental planting – groundcover mix'.

Years 1-5	Year 6 Onwards
- Any dead or dying plants should be removed and replaced during the next available planting season; - Residual herbicide application at end of winter; - Plant areas to be weed free throughout summer; - Thinning at end of each year to cut waste and remove closely stocked shrubs; - Prune shrubs to encourage best display of given species, taking into account of natural habitat and form. Prune winter flowering shrubs in spring, shrubs flowering between March and July immediately after flowering, and shrubs flowering between July and October back to old wood in winter. - Any shrub/hedge guards should be removed at end of 5 years. - Cut back old growth of perennials and shrubs in March, avoiding damage to new growth. Remove arisings.	- To maintain the appearance of the hedge/shrub areas the management applied in Years 1-5 should be applied in subsequent management period; - Full assessment of site should be conducted upon renewing of management contracts, at which point plants to be replaced will be decided.

3.6 Waterbodies and Ponds

3.6.1 The following are management operations that apply to proposed water bodies throughout the design, including Swales and Ponds.

- 3.6.2 The management operations associated with these waterbodies follow guidance set out in the Ecological Method Statement, as well as pertaining to adjacent vegetation shown within the soft landscape proposals.
- 3.6.3 Fish control to be undertaken in accordance with the recommendations outlined within the latest 'Fish Control Methods for Great Crested Newt Conservation (England and Wales)', prepared by Amphibian and Reptile Conservation. Refer to latest reports for guidance.

Waterbodies and Ponds Management – General Principles

- Inspected twice annually to check health and functioning of pond and all works undertaken should be undertaken dependent on conditions encountered during inspection;
- Remove leaf fall and desilt annually to reduce build-up of organic waste;
- Remove litter accumulating within ponds and waterbodies and reinstate watercourse as per proposals in the event of major damage;
- All fish species to be removed following guidance note attached to this report. This will ensure that predation of Great Crested Newt eggs and larvae. Fish control measures are to be carried out in accordance with recommendations set out by the Amphibian and Reptile Conservation wildlife charity, or similar and approved;
- Shading from shrubs and overhanging vegetation should be removed as appropriate, achieving shading of no more than 20% of the water course;
- Aquatic vegetation within waterbodies should be removed as appropriate to achieve a coverage of no more than 20%; and
- All works within waterbody should be undertaken during winter months, when Great Crested Newts are less likely to be present.

NOTE: The management objectives set out within these principles are intended to achieve effective habitats for newts. Should the ponds become depauperate then further ecological inspections and remediation measures should be taken, as appropriate.

3.7 Marginal and Aquatic Vegetation

- 3.7.1 The following are management operations that apply to areas marked as 'wetland meadow mix' and 'marginal mix' on planting proposals.

Marginal and Aquatic Vegetation – General Principles

- Allow the grasses in Wet Meadows to grow tall, flower and seed from across the growing period;
- Mow or cut back Wet Meadows in autumn and thereafter allow to form a long and rank sward;

- In winter cut the Marginal plants back to two or three inches [5-7.5cm] above the water level of the pond;
- In spring remove any dead, discoloured, or excess Marginal plant material; and
- Thin out Marginal plants in spring to ensure that they don't engulf more of the pond than originally planned – see note in 'Waterbodies and Ponds' management section.

NOTE: Wet Meadow is best sown in the Spring or Autumn and may be slow to establish initially. There will often be a flush of annual weeds from the soil in the first growing season. This weed growth is easily controlled by topping or mowing, if it becomes a persistent problem.

NOTE: Marginal plants [unless they are in pots] do not need to be fertilized, as they will flourish from the nutrients in the pond and help aid filtration within the SuDS scheme.

3.8 Paths and Hard Surfaces

Hard Surfaces

- 3.8.1 The following are management operations that apply to the paths and hard surfaces.
Undertake to ensure that surfaces are safe, accessible and fit for use.

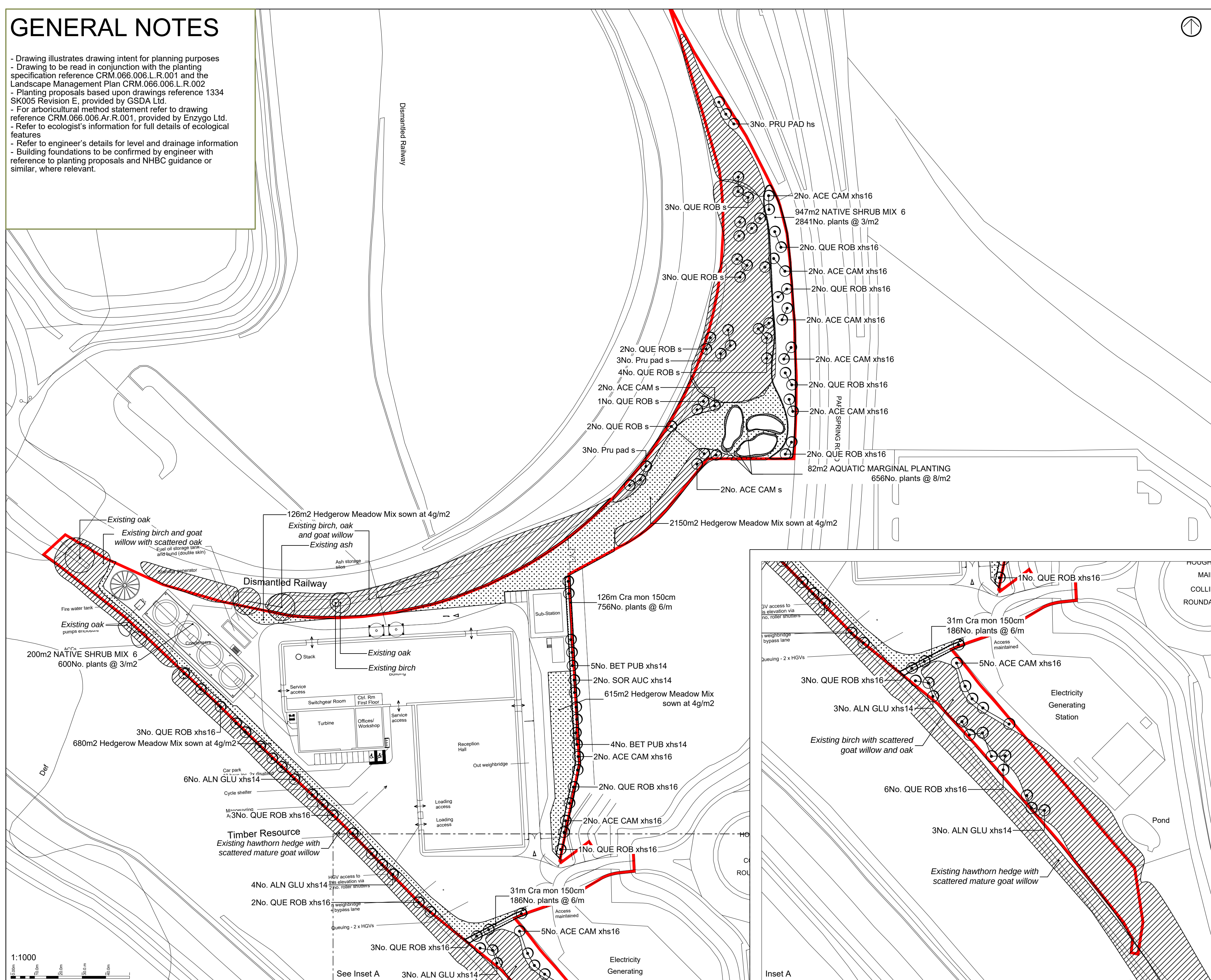
Years 1-5	Year 6 onwards
• Keep path areas clear of debris, litter, snow and ice throughout the year. • Make good damaged surfaces to maintain safe and accessible routes throughout the year.	• Keep path areas clear of debris, litter, snow and ice throughout the year. • Make good damaged surfaces to maintain safe and accessible routes throughout the year.

4.0 Review

- 4.1.1 The Landscape Management Plan should be reviewed every 5-years by those responsible for the landscape management and maintenance of the site. The review will identify if there are any additional management procedures that are required and any changes to the procedures that have been set out in this report to ensure the design vision that is set out in Section 2 of this report is achieved.
- 4.1.2 Following 20 years, the entire site should be reviewed by a Landscape Architect and/or Arboriculturist to identify where shorter lived shrubs require replacement.

GENERAL NOTES

- Drawing illustrates drawing intent for planning purposes
- Drawing to be read in conjunction with the planting specification reference CRM.066.006.L.R.001 and the Landscape Management Plan CRM.066.006.L.R.002
- Planting proposals based upon drawings reference 1334 SK005 Revision E, provided by GSDA Ltd.
- For arboricultural method statement refer to drawing reference CRM.066.006.Ar.R.001, provided by Enzygo Ltd.
- Refer to ecologist's information for full details of ecological features
- Refer to engineer's details for level and drainage information
- Building foundations to be confirmed by engineer with reference to planting proposals and NHBC guidance or similar, where relevant.



KEY

Soft Works

- | | |
|---|--|
|  | Existing areas of young trees and shrubs |
|  | Existing mature trees |
|  | Planting-Hedges |
|  | Planting-SemiNative Mixes |
|  | Planting-Shrubs |
|  | Grass-Wildflower |
|  | Tree-Extra Heavy Standard |
|  | Tree-Heavy Standard |
|  | Tree-Select Standard |
|  | Site boundary |

A	04.01.2018	VM	Revised to GSDA layout
1313_PL003	rev. B		
-	09.11.2017	VM	Preliminary
rev	date	by	comments



Samuel House, 5 Fox Valley Way, Stocksbridge, Sheffield, S36 2AA

CLIENT:
Peel Environmental Limited

SCALE: 1:1000@A2 PROJECT REF: CRM.066.006

DRAWN: VM CHECKED: SF DATE: Jan 18

PROJECT:
Houghton Main TRRC

TITLE:
Planting Details (Sheet 1 of 2)

DRAWING NO:
CRM.066.006.L.D.004.A

PLANT SCHEDULE

Trees							
No	Unit	Code	Species	Root	Form	Girth / Height	Specification
4	No.	ACE CAM s	Acer campestre	RB	STD	8-10cm	2x; standard; 250-300cm ht; clear stem minimum 175-200; 4 breaks
19	No.	ACE CAM xhs16	Acer campestre	RB	STD	16-18cm	3x; Extra Heavy Standard; clear stem minimum 200cm; 5 breaks
16	No.	ALN GLU xhs14	Alnus glutinosa	RB	STD	14-16cm	
9	No.	BET PUB xhs14	Betula pubescens	RB	STD	14-16cm	Extra Heavy Standard; clear stem 175-200cm; 5 breaks; ht 400-450cm
6	No.	Pru pad s	Prunus padus	RB	STD	8-10 cm	2x; Standard; clear stem 175-200cm; 3 breaks, 250-300cm ht
3	No.	PRU PAD hs	Prunus padus	RB	STD	12-14cm	3x; Heavy Standard; clear stem 175-200cm; 300-350cm height; 5 breaks
15	No.	QUE ROB s	Quercus robur	RB	STD	8-10cm	2x; standard;clear stem minimum 175-200, 250-300cm ht
28	No.	QUE ROB xhs16	Quercus robur	RB	EHS	16-18cm	3x; extra heavy standard;clear stem minimum 200cm, 400-450cm ht
2	No.	SOR AUC xhs14	Sorbus aucuparia	RB	STD	14-16cm	3x; extra heavy standard;clear stem minimum 175-200, 425-600cm ht

Hedge Planting					
No	Unit	Code	Species	Root	Size [cm]
158	m	Cra mon 150cm	Crataegus monogyna	B Trans	150-200cm
948	No.	Plants spaced @ 6/m in a Double Staggered Row			

Shrub planting							
947m2 NATIVE SHRUB MIX 6 planted @ 3/m2							
%	No	Unit	Species		Root	Size [cm]	Specification
20%	544	No.	Cornus sanguinea		B Trans	60-80cm	1+1; Branched; 3 breaks
20%	544	No.	Corylus avellana		B Trans	60-80cm	1+2; Branched; 3 breaks
50%	1364	No.	Crataegus monogyna		B Trans	80-100cm	1+2
10%	272	No.	Prunus spinosa		B Trans	60-80cm	1+1; Branched; 2 breaks
Individual varieties to be planted in groups of between 7 and 11.							
82m2 AQUATIC MARGINAL PLANTING planted @ 8/m2							
%	No	Unit	Species		Root	Size [cm]	Specification
20%	131	No.	Glyceria maxima		50cc		Plug; established root 2-3 months min; native British origin
25%	164	No.	Juncus effusus		50cc		Plug; established root 2-3 months min; native British origin
10%	66	No.	Lythrum salicaria		50cc		Plug; established root 2-3 months min; native British origin
5%	33	No.	Mentha aquatica		50cc		Plug; established root 2-3 months min; native British origin
5%	33	No.	Phalaris arundinacea		50cc		Plug; established root 2-3 months min; native British origin
5%	33	No.	Typha latifolia		50cc		Plug; established root 2-3 months min; native British origin
30%	197	No.	Typha angustifolia		50cc		Plug; established root 2-3 months min; native British origin

Hedgerow meadow planting									
3571m2 EM1 HEDGEROW MEADOW MIXTURE sown @ 4g/m2									
Mixture to be supplied by Emorsgate (wildseed.co.uk) or similar and approved and implemented in accordance with suppliers recommendations.									
Mixture to be seeded in favourable conditions in warm and moist weather.									
This specification is for planning purposes only. A full specification is recommended prior to implementation.									

Notes and Abbreviations			
B	=	Bare root (bagged).	
C	=	Container (or pot) grown, followed by size of the container (or pot).	
FORM	=	Shape of tree as supplied by the nursery.	
QTY	=	Quantity	
RB	=	Rootballed (balled and wrapped).	
SIZE	=	Height or Spread of juvenile plant.	
Std	=	(clear stem) Standard.	
STOCK	=	Root condition/protection method eg Bare root.	
Trans	=	Transplant (or undercut seedling).	
- Refer to specification for further information.			
- All plants to be completely hardened off			
- Substitutions to be agreed with Landscape Architect.			
Plant Schedule generated by "Qscape" software 09/11/2017			

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A	04.01.2018	VM	Revised to GSDA layout
	1313_PL003	rev. B	
-	09.11.2017	VM	Preliminary
rev	date	by	comments



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CLIENT:		
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PROJECT REF:		
CRM.066.006		
PROJECT:		
Houghton Main TRRC		
TITLE:		
Planting Details (Sheet 2 of 2)		
DRAWING NO:		
CRM.066.006.L.D.005.A		



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