

MERTHYR LABOUR EXCHANGE SITE SLOPE REINSTATEMENT



LANDSCAPE MANAGEMENT PLAN

February 2019

FIONA CLOKE
A S S O C I A T E S

www.fionacloke.co.uk

CONTENTS

1	Introduction.....	2
1.1	Introduction	2
1.2	Site Description	2
1.3	Site Development.....	3
2	Design Objectives.....	4
2.1	Aims.....	4
2.2	Management Objectives.....	4
3	Management Recommendations	5
3.1	General	5
3.2	Woodland Planting Areas	6
3.3	Ornamental Planting Areas.....	6
3.4	Grass Areas.....	7
3.5	Monitoring & Review.....	7

Drawings:

680.01B Proposed Landscape Works

680.02 Landscape Management Areas

Management Schedule



Aerial view of the site with adjacent residential development in progress

1 Introduction

1.1 Introduction

- 1.1.1 This management plan is intended to guide the ongoing establishment of landscape elements and the maintenance and development of the landscape during a 25 year period following implementation. It has been prepared by Fiona Cloke Associates for Hale Construction Ltd. in response to the planning requirements of Merthyr Tydfil County Borough Council.
- 1.1.2 This document sets out the long term management strategy to ensure that the landscape matures into a healthy and attractive environment which contributes positively to the surrounding area. Practical completion of the installation contract is only the beginning of the process of plant establishment. The success of a landscape scheme is dependent on the subsequent management/maintenance regime and this document set out aims, objectives and specific operations required in order to allow the landscape to reach its full potential. Relevant drawings and a Management Schedule are included.



View west towards new residential development (prior to slope reinstatement)

1.2 Site Description

- 1.2.1 The Landscape Management Plan relates to a sloping area of land, approximately 4500 square metres, located to the north of Merthyr Tydfil town centre and adjacent to Penydarren Road. The site falls steeply from west to east with levels of 207m AOD along the western edge and 190m AOD along the road edge on the eastern boundary.
- 1.2.2 All existing vegetation has been removed from the site (see 1.3 below) and the area has been grass seeded and planted with blocks of native tree and shrub species. There are also areas of ornamental shrub planting along edges of the site.

- 1.2.3 There is residential development to the north, south and east of the site while Merthyr Tydfil football ground is located to the east.

1.3 Site Development

- 1.3.1 The area is part of a larger site, including the former Labour Exchange, all of which had planning permission for a residential development. The whole site was cleared and the southern part of the site has been developed but the area which is the subject of this management plan was taken out of the site due to stability issues caused by excessive amounts of groundwater in the slope.
- 1.3.2 Prior to clearance the area was partially tree covered. It supported semi-mature and mature trees including Ash, Spruce, Cherry and Goat Willow. Most were considered to be self set. Earthworks had been started, changing the slope profiles. The slope has now been reinstated with drainage including a 900mm diameter attenuation pipe located behind the retaining wall at the base of the slope and a network of land and toe drains across the site which direct water to the attenuation pipe. The slopes are made up of compacted engineered fill.
- 1.3.3 The following engineering drawings provide further details of the slope reinstatement:

Hydrock: LEM-HYD – XX-XX-DR-C-0003 Slope Drainage and Attenuation Strategy
Hydrock: LEM-HYD – XX-GI-DR-G-1008-S4-P1 to 1019-S4-P1 Slope Sections

- 1.3.4 Drawing No. 680.01B Proposed Landscape Works (attached) includes the specification for ground preparation prior to landscape works. It is a difficult environment for establishing vegetation with a combination of a compacted substrate and extensive drainage to remove excess moisture from the ground. The slope profiles vary from 1 in 2 to 1 in 4.
- 1.3.5 Ground preparation included breaking up the top 150mm of engineered fill to assist with keying in a 100mm layer of topsoil spread across all areas. A coir base erosion control matting was fixed to the surface across approximately one third of the site where the slopes are steepest.
- 1.3.6 Planting pits were excavated to minimum 400mm depth and diameter with pit bases broken up to 150mm depth. There is a 2.5m wide strip along the southern boundary of the site which was excavated to 600mm depth to receive the same depth of imported topsoil. This area and other boundaries support ornamental shrub planting whereas the rest of the site is planted with blocks of native tree and shrub species set in grassland. The grass seed mix was selected to aid in stabilising the slopes and includes creeping perennial ryegrass and creeping red fescue. Keeping the immediate area around each plant base clear of grass and weeds will be critical to plant establishment.

2 Design Objectives

2.1 Aims

- To restore an important green space close to the town centre and to re-establish native trees and shrubby vegetation on the sloping site.
- To create a vegetation pattern that contributes positively to the visual quality of the area.
- To provide green infrastructure assets and improve biodiversity value.
- To provide screening and/or attractive views across the area for adjacent residential areas.

2.2 Management Objectives

- Maintain and manage native and ornamental planting areas to ensure successful establishment, maturity and longevity.
- Maintain and manage grass areas to provide a sward which assists in stabilising the slope surface and reducing runoff/soil erosion, while encouraging species diversity.
- Manage areas of native tree and shrub planting to diversify habitat provision.



View north with new residential development on far left (prior to slope reinstatement)



View southwest towards new residential development (prior to slope reinstatement)

3 Management Recommendations

3.1 General

- 3.1.1 A 12 month defects and maintenance period followed practical completion of the landscape works which were part of the slope reinstatement contract. The recommendations below include both establishment operations (Years 1 to 5) and longer-term management requirements (Years 1 to 25).
- 3.1.2 **Drawing No 680.02 Landscape Management Areas** shows the areas of different landscape types described below and also includes a list of the planted species. A **Landscape Management Schedule** is included in this document and specifies the frequency of visits required for all operations.
- 3.1.1 Access will be possible via a gate in the northeast corner of the site adjacent to the raised pavement which follows Penydarren Road where there will be room to park a maintenance vehicle.
- 3.1.2 Maintenance and management of the landscape areas is to be undertaken by a competent Landscape Contractor, registered with the British Association of landscape Industries (BALI) or equivalent trade association.
- 3.1.3 All landscape areas are to be maintained to BS4428 Code of Practice for General Landscape Operations, and to BS7370 Grounds Maintenance: Recommendations for Maintenance of Soft Landscape, current editions.
- 3.1.4 A record of all maintenance visits should be undertaken by the Contractor and these should be collated on a six monthly basis and submitted to the Client for review.
- 3.1.5 All areas are to be kept litter free, with maintenance of planting and grass areas carried out as specified and as necessary to ensure healthy growth, establishment and longevity.

- 3.1.6 The Contractor shall advise the Client of all trees and other plants found to be dead, dying, vandalised or suffering significantly from the current growing conditions. All failed/defective plants identified within the first 5 years of installation shall be replaced by the Contractor early in the next planting season. Replacement plants should be of the same species and specification unless it is agreed with the Client to change the species/size.
- 3.1.7 Litter and non-biodegradable arisings must be removed from site. Biodegradable arisings and grass cuttings may be composted on site. Location of on-site compost areas to be agreed with Client. Woody material may be chipped/shredded on site subject to gaining permission from the Client.

3.2 Woodland Planting Areas

- 3.2.1 Weed control: Maintain a minimum area of 800mm square around each plant in a weed and grass free condition through approved chemical and/or mechanical means. Ensure that the mulch mats are kept clear of all weeds/grass and are securely fixed. Remove mulch mats when degraded but not before 2 years after planting.
- 3.2.2 Refirm plants in ground as necessary. Report to Client if staking is required.
- 3.2.3 Remove dead plants and replace with same species and sizes in first planting season after failure. Repeat as necessary through Years 1 to 5.
- 3.2.4 Water plants as necessary to maintain healthy growth of all plants during periods of prolonged dry conditions especially in summer and using a line hose or sprinkler until the full depth of the topsoil has been. Repeat as necessary through Years 1 to 5.
- 3.2.5 **Thinning:** of woodland planting to be carried out by mechanical or manual means, arisings to be shredded and used as mulch. Retention of felled material to occur after the second thinning. Cut down to lengths of between one and two metres and stacked in agreed locations. Thinning to be carried out during winter months.
- 3.2.6 First thinning to be carried out after 10 years, to favour climax species removing pioneer and nurse species competing with or affecting growth. to enable shrubs to spread and climax trees to grow without competition.
- 3.2.7 Second thinning to be carried out after 15 years, additional pioneer and nurse species to be thinned out, best climax trees to be selected and poorer specimens removed.
- 3.2.8 **Coppicing:** of woodland planting (including Hazel, Dogwood and Guelder Rose) to be carried out by mechanical or manual means. Selected arisings to be stacked for ecological benefit in appropriate locations. Remaining arisings to be shredded and used to mulch as appropriate. Coppicing of selected areas to be carried out during winter months every 5 years, on a staggered rotation to ensure understorey maintained at different heights and ages.

3.2.9 Clear woodland areas of litter and debris on every visit.

3.3 Ornamental Planting Areas

- 3.3.1 1.25m wide strip along eastern edge of site: maintain ground in a weed free condition through approved chemical and/or mechanical means. Maintain bark mulch at 75mm settled depth for 5 years. All other areas: maintain a minimum area of 800mm square around each plant in a weed free condition through approved chemical and/or mechanical means. Ensure that the mulch mats are kept clear of all weeds and are securely fixed. Remove mulch mats when degraded but not before 2 years after planting.
- 3.3.2 Refirm plants in ground as necessary.
- 3.3.3 Remove dead plants and replace with same species and sizes in first planting season after failure. Repeat as necessary through Years 1 to 5.
- 3.3.4 Prune/trim individual plants in accordance with good horticultural practice and to establish healthy, balanced and upright specimens.
- 3.3.5 Water plants as necessary to maintain healthy growth of all plants during periods of prolonged dry conditions especially in summer and using a line hose or sprinkler until the full depth of the topsoil has been. Repeat as necessary through Years 1 to 5.

3.4 Grass Areas

- 3.4.1 Maintain a healthy grass sward, free from disease, fungal growth, discolouration, scorch or wilt. Repair trampling, abrasion or scalping caused by mowing.
- 3.4.2 For first 5 years: cut grass to a height of 75mm, first of 4 cuts in March/April, last cut in late October (according to season). Arisings to be collected and removed from sward, taking care to clear thoroughly around all plants. Years 5 to 10: 2 cuts, the first in August, second in October. Year 11 onwards: single cut in October.
- 3.4.3 Spot treat noxious/invasive weeds with approved selective herbicide. Other wild flora in sward to be retained.

3.5 Monitoring & Review

- 3.5.1 The management of the site is to be reviewed every five years to ensure the aims and objectives of the scheme are being met, incorporating any additional operations required.

Landscape Management Schedule

FIONA CLOKE
ASSOCIATES

Project: Merthyr Labour Exchange Slope Reinstatement

Date of Review:

Landscape Type	Operation	Number of operations per year																									Notes
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	
Woodland Planting Areas	Weed control	3	3	3	3	3	1	1	1	1	1	1	1	1	1	1											Until canopy closure
	Replace failed plants	1	1	1	1	1																					
	Litter removal	3	3	3	3	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	Prior to cutting
	Refirming plants	1	1	1	1	1																					
	Pruning	2	2	2	2	2	1		1		1		1			1			1			1			1		
	Thinning										1					1					1					1	
	Coppicing					1					1					1					1					1	
	Watering	as required																									
Ornamental Planting Areas	Weed control	15	15	15	10	10	6	6	6	4	4	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	
	Replace failed plants	1	1	1	1	1																					
	Litter removal	15	15	15	10	10	6	6	6	4	4	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	
	Refirming plants	1	1	1	1	1																					
	Pruning	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
	Watering	as required																									
	Bark mulch	1	1	1	1	1																					
Grass Areas	Grass cutting	3	3	3	3	3	2	2	2	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
	Litter removal	3	3	3	3	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	Prior to cutting
	Reinstatement	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
	Weed control	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	Noxious/invasive weeds only

Plant Schedule

Spacing	ID	No.	Latin Name	Scheduled Size
1/m2	AI	94	Amelanchier lamarckii	60-80cm, CG, 3L pot
TREE	BP	20	Betula pendula	Feathered,125-150cm, CG, 7.5L
1/m2	Ca	723	Corylus avellana	40-60cm, 1+1, bare root
1/m2	CaE	123	Cornus alba 'Elegantissima'	40-60cm, CG, 2L
1/m2	Cs	252	Cornus sanguinea	40-60cm, 1+1, bare root
1/m2	Ia	293	Ilex aquifolium	30-40cm, CG, 2L pot
3/m2	Lp	237	Lonicera pileata	30-40cm, CG, 2L
1/m2	PI	445	Prunus lusitanica	40-60cm, CG, 3L
CONIFER	PO	20	Picea omorika	40-50cm, CG,3L pot
1/m2	POG	97	Pyracantha 'Orange Glow'	40-60cm, CG, 3L
CONIFER	PS	10	Pinus sylvestris	60-90cm, CG, 3L pot
1/m2	Qrob	381	Quercus robur	60-80cm, 1+1, bare root
2/m2	RcG	118	Rubus cockburnianus 'Golden Vale'	30-40cm, CG, 3L
TREE	SA	20	Sorbus aucuparia	Feathered, 125-150cm ht, CG, 7.5L
1/m2	Sauc	381	Sorbus aucuparia	60-80cm, 1+1, bare root
1/m2	Vo	252	Viburnum opulus	45-60cm, 1+1, bare root

Key

- Proposed individual tree planting (into prepared pits - see Specification Notes)
-
- Proposed planting areas (into prepared pits) - see Specification Notes
-
- Proposed planting areas (into 2.5m prepared trench at lower edge of site) - see Specification Notes
-
- Grass areas (whole site, including planting areas, except 2.5m wide strip at lower edge); to be seeded with Germinal Seeds A3 grass seed mix @ 50g/sq m after planting and mulch mats have been installed.
-
- Greenfix GeoCoir erosion control netting, 700 gsm, or equivalent and approved, securely fixed with 300mm pins in accordance with manufacturers recommendations.
-
- Slope zones - for engineering purposes



Landscape Specification Notes

- General Notes**
- All Nursery Stock to comply with BS3936 Part 1:1992 and all subsequent amendments; species in native mixes to be of local provenance unless otherwise agreed.
 - All Landscape operations to comply with BS4428:1989 and all subsequent amendments;
 - Any proposed substitutions, whether species, cultivar, pot size or other specification, must be approved by landscape architect prior to planting;
 - The landscape contractor to make him/herself aware of any underground and overhead services prior to planting.
 - Topsoil: imported topsoil to be provided as necessary and to be in accordance with BS3882 multipurpose grade, sandy loam texture.
 - PAS100 compost: provide certificate and source for approval. Arrange for CA to inspect a sample load of not less than 0.1 cu m prior to any deliveries being made. Retain for comparison with subsequent loads.
 - Where shown on the drawing supply and securely fix **GeoCoir erosion control netting**, 700 gsm, or equivalent and approved, fixed with 300mm pins, all in accordance with manufacturers recommendations.
 - All other planting to be in **pits excavated to minimum 400mm diameter and 400mm minimum depth** with backfill removed from site. See drawing for density of pits required. In sloping ground, maintain horizontal bases and vertical sides with no less than minimum depth throughout. **Break up bottom of pits to a depth of 150mm and scarify sides.** Pits to be backfilled with a well-mixed combination of 2/3 settled volume imported topsoil and 1/3 settled volume PAS 100 compost.
 - Planting Areas**
 - Plant at densities and in single species/various groups as shown shown on drawing. Settling out of plant mix areas to be agreed with landscape architect.
 - All plants except a 1.25m wide strip along the lower edge of the site to be fitted with **Ecomat mulch mats, 500x500mm**, 450g, each mat securely fixed at each corner with 300mm long pins, all in accordance with manufacturers recommendations.
 - Spread a 75mm deep (settled) layer of approved **bark or wood chip mulch** over the planted area in the 1.25m wide strip along the lower edge of the site.
 - Planting generally - plant roots must be protected at all times from sun, frost and winds with planting bags used for all bare root material. All plants to be planted to the root collar and well firmed in the backfill material. Backfill material is to be placed around the roots in such a way as to ensure close contact with the roots.
 - Immediately after planting cut back any damaged, dead or diseased branches, remove any weak, thin or malformed growth. Water plants thoroughly after planting. Watering to continue as required throughout first growing season following planting.
 - Supply and spread **100mm settled depth imported topsoil** over all areas except a 2.5m wide strip along the lower edge of the site.
 - Excavate the 2.5m wide strip to allow sufficient depth for **600mm settled depth of imported topsoil**. Supply and install a **permeable root barrier** on formation, place topsoil over, add 150mm depth PAS100 compost to the 2.5m strip and mix with topsoil.
 - PAS100 compost: provide certificate and source for approval. Arrange for CA to inspect a sample load of not less than 0.1 cu m prior to any deliveries being made. Retain for comparison with subsequent loads.
- Grass Seeding**
- To take place in correct season and after planting and mulch mats have been fitted. **All areas except a 2.5m wide strip along the lower edge of the site to be grass seeded.** Cultivate to a depth of 150mm, removing stones and rubbish larger than 50mm dia. Grade to smooth flowing contours.
 - Reduce the top 25mm to a fine tilth and remove stones and rubbish over 30mm dia. Sow grass seed (Germinal A3 mix or equivalent and approved) at 50g/sq m - in 2 equal sowings in transverse directions. Lightly harrow or rake.
 - Sward establishment: first cut of grass when the sward reaches between 40 and 70 mm ht. Remove stones/rubbish over 25mm dia. and cut grass to 40mm ht. Reseed areas of poor establishment until a sward of minimim 95% coverage has been achieved.
 - Maintenance over 12 months
 - Maintain all planting areas and tree bases free of weeds by chemical and/or mechanical means. Ensure mulch mats are securely fitted and refix as necessary.
 - Remove any dead trees and replace with equivalent size and species in first 5 years after planting. Remove any other dead plants and replace with equivalent size and species in first year after planting.
 - Water as necessary to establish plants successfully.
 - Prune plants according to species, location and season to remove damaged/dead growth and to encourage healthy growth with a well-balanced natural appearance.
 - Maintain mulch at 75mm depth.

NOTE:
See Landscape Specification Notes on this drawing for details of **ground preparation and seeding/planting**. This site had been cleared for development which was then stopped due to groundwater issues. It will be reinstated prior to landscape operations, the surface will be compacted engineered fill and there will be extensive surface and underground drainage installation. Planting positions must avoid land drains, manhole covers, rodding eyes, etc. **SEE SEPARATE ENGINEER'S DRAWINGS FOR DETAILS OF DRAINAGE & ATTENUATION.**

Rev	Date	Description	Initials
A	18.12.18	Planting revisions and notes	FEC
B	22.01.19	Planting revisions and notes	FEC

FIONA CLOKE

A S S O C I A T E S

landscape architecture

environmental planning

Brynant, Soar, Brecon, Powys, LD3 9LT

T 01874 636161 M 07760 471318

fc@fionacloke.co.uk www.fionacloke.co.uk

Client

Hale Construction Ltd

Project

Merthyr Labour Exchange

Slope Reinstatement

Drawing Title

Proposed Landscape Works

Date	14.12.18	Drawn	FEC	Scale	1:250 @ A1
Project No	680	Drawing No	01	Rev	B

Plant Schedule

Spacing	ID	No.	Latin Name	Scheduled Size
1m/2	AI	94	Ariehachier lamackii	60-80cm, CG, 3L pot
TREE	BP	20	Betula pendula	Feathered, 125-150cm, CG, 7.5L
1m/2	Ca	723	Corylus avellana	40-50cm, 1+1, bare root
1m/2	CaE	123	Cornus alba 'Elegantissima'	40-50cm, CG, 2L
1m/2	Os	252	Cornus sanguinea	40-50cm, 1+1, bare root
3m/2	la	293	Ilex aquifolium	30-40cm, CG, 2L pot
3m/2	Lp	237	Lonicera pileata	30-40cm, CG, 2L
1m/2	PI	445	Prunus laetifica	40-50cm, CG, 3L
CONIFER	PO	20	Picea omorika	40-50cm, CG, 3L pot
1m/2	POG	97	Pyracantha 'Orange Glow'	40-50cm, CG, 3L
CONIFER	PS	10	Pinus sylvestris	60-80cm, CG, 3L pot
1m/2	Qrob	381	Quercus robur	60-80cm, 1+1, bare root
ROB	ROG	118	Rubus coccineus 'Golden Vale'	30-40cm, CG, 3L
TREE	SA	20	Sorbus aucuparia	Feathered, 125-150cm, 1L, CG, 7.5L
1m/2	Sauc	381	Sorbus aucuparia	60-80cm, 1+1, bare root
1m/2	Vo	252	Viburnum opulus	45-50cm, 1+1, bare root

Key

Proposed individual tree planting (into prepared pits - see Specification Notes)

Proposed woodland planting areas

Proposed ornamental shrub planting areas

Grass areas (whole site, including planting areas, except 2.5m wide strip at lower edge); to be seeded with Germinall Seeds A3 grass seed mix @ 50g/sq. m after planting and mulch mats have been installed

Greenfix GeoCoir erosion control netting, 700 gsm, or equivalent and approved, securely fixed with 300mm pins in accordance with manufacturers recommendations.

Slope zones - for engineering purposes



Landscape Specification Notes (for implementation - see separate Landscape Management Plan (25 years))

- General Notes**
- Where shown on the drawing supply and securely fix GeoCoir erosion control netting, 700 gsm, or equivalent and approved, fixed with 300mm pins, all in accordance with manufacturers recommendations.
 - All landscape operations to comply with BS4408:1988 and all subsequent amendments.
 - Any proposed substitutions, whether species, cultivar, pot size or other specification, must be approved by landscape architect prior to planting.
 - The landscape contractor to make themselves aware of any underground and overhead services prior to planting.
 - Topsoil: Imported topsoil to be provided as necessary and to be in accordance with BS3882 multipurpose grade, sandy loam texture.
 - PAS 100 compost provide certificate and analyse for approval. Arrange for CA to inspect a sample load/no less than 0.1 cu m prior to any deliveries being made. Retain for comparison with subsequent loads.
 - The top 150mm depth of the engineered fill to be broken up to allow imported topsoil to lay in. This broken up material to be cultivated sufficiently to grade to a surface to receive imported topsoil layer.
 - Supply and spread 100mm settled depth imported topsoil over all areas except a 2.5m wide strip along the lower edge of the site.
 - Excavate to 2.5m wide strip to allow sufficient depth for 600mm settled depth of imported topsoil. Supply and install a permeable root barrier on formation, place topsoil over, add 150mm depth PAS100 compost to the 2.5m strip and mix with topsoil.
 - PAS 100 compost provide certificate and source for approval. Arrange for CA to inspect a sample load/no less than 0.1 cu m prior to any deliveries being made. Retain for comparison with subsequent loads.
- Planting Areas**
- Plant all deliveries and in single species/layer groups as shown on the drawing. Spacing out of plant mix areas to be agreed with landscape architect.
 - All plants except a 1.2m wide strip along the lower edge of the site to be filled with Ecomat mulch mats, 500x500mm, 400g, each mat securely laid at each corner with 300mm long pins. All in accordance with manufacturers recommendations.
 - Spread a 75mm deep (settled) layer of approved bark or wood chip mulch over the planted area in the 1.2m wide strip along the lower edge of the site.
 - Planting generally - plant roots must be protected at all times from sun, frost and winds with planting bags used for all bare root material. All plants to be planted to the root collar and well fixed in the backfill material. Backfill material is to be placed around the roots in such a way as to ensure close contact with the roots.
 - Immediately after planting out back any damaged, dead or diseased branches, remove any weak, thin or malformed growth. Water plants thoroughly after planting. Netting to continue as required throughout first growing season following planting.
- Grass Seeding**
- To take place in correct season and after planting and much made have been filled. All areas except a 2.5m wide strip along the lower edge of the site to be grass seeded. Cultivate to a depth of 10mm, removing stones and rubbish larger than 30mm dia. Grade to smooth flowing contours.
 - Reduce the top 25mm to a fine fib and remove stones and rubbish over 20mm dia. Sow grass seed (Sown at A3 mix or equivalent and approved) at 50g/sqm - in 2 equal sowings in transverse directions. Lightly harrow or rake.
 - Sward establishment: first cut of grass when the sward reaches between 40 and 70 mm ht. Remove sward rubbish over 25mm dia and cut grass to 40mm minimum 50% coverage has been achieved.
 - Maintenance over 12 months
 - Maintain all planting areas and tree bases free of weeds by chemical and mechanical means. Grime much mats are securely fixed and retain as necessary.
 - Remove any dead trees and replace with equivalent size and species in first 5 years after planting. Remove any other dead plants and replace with equivalent size and species in first year after planting.
 - Water as necessary to establish plants successfully.
 - Prune plants according to species, location and season to remove damaged/dead growth and to encourage healthy growth with a well-balanced natural appearance.
 - Maintain mulch at 75mm depth.
 - Maintaining general grass areas: keep a healthy and vigorous grass sward at a height of 60 to 100mm, seedings to be spread evenly over cut areas. Do not cut grass in areas with sub planting until full foliage has died back. Use selective herbicides to control pernicious weeds.

NOTE: See Landscape Specification Notes on this drawing for details of ground preparation and seeding/planting. This site had been cleared for development which was then stopped due to groundwater issues. It will be reinstated prior to landscape operations, the surface will be compacted engineered fill and there will be extensive surface and underground drainage installation. Planting positions must avoid land drains, manhole covers, rod/ding eyes, etc. SEE SEPARATE ENGINEERS DRAWINGS FOR DETAILS OF DRAINAGE & ATTENUATION.

FIONA CLOKE
A S S O C I A T E S
landscape architecture
environmental planning

brynant, Soar, Brecon, Powys, LD3 9LT

T 01874 636161 M 07760 471318

fiona@fionacloke.co.uk www.fionacloke.co.uk

Client	Hale Construction Ltd				
Project	Merthyr Labour Exchange Slope Reinstatement				
Drawing Title	Landscape Management Areas				
Date	5.02.19	Drawn	FEC	Scale	1:250 @ A1
Project No	680	Drawing No		02	Rev