Existing Woodland & Scrub Cover

Existing Woodland & Scrub Cover

Existing Woodland & Scrub Cover

Carpark

Existing Woodland & Scrub Cover

Ephemeral Ponding Wet Grassland

Localised Rock Scree

Calcareous Grasses(G1)

Localised Rock Scree

Existing Woodland & Scrub Cover

Calcareous Grasses(G1)

Localised Rock Scree

Ephemeral Ponding Wet Grassland

Calcareous Grasses(G1)

Existing Woodland & Scrub Cover

Calcareous Grasses (COMPLETE)

Existing Woodland & Scrub Cover

Existing Woodland & Scrub Cover

PLANT SCHEDULES

MAIN WOODLAND MIX (W1) (see Detail)

	%	SPECIES	COMMON	SIZE	GROWN	HEIGHT/TRANSPL	DENSITY
Ac	40	Acer campestre	Field Maple	40-60cm	BR	1 + 1 Branched	0.5 per m2
Fe	10	Fraxinus excelsior*	Ash*	40-60cm	BR	1 + 1 Branched	0.5 per m2
Me	15	Malus sylvestris	Crabapple	40-60cm	BR	1 + 1 Branched	0.5 per m2
Bp	10	Betula pubescens(w)	Downy Birch	40-60cm	BR	1 + 1 Branched	0.5 per m2
Ag	10	Alnus glutinosa (w)	Alder	40-60cm	BR	1 + 1 Branched	0.5 per m2
Sa	10	Sorbus aucuparia	Rowan	40-60cm	BR	1 + 1 Branched	0.5 per m2
Ug	5	Ulmus glabra	Wych Elm	40-60cm	BR	1 + 1 Branched	0.5 per m2

WOODLAND EDGE MIX (W2) (see Detail)

	%	SPECIES	COMMON	SIZE	GROWN	HEIGHT/TRANSPL	DENSITY
Ca	40	Coryllus avellana	Hazel	40-60cm	BR	1 + 1 Branched	1.5 per m2
Cm	15	Crataegus monogyna	Hawthorn	40-60cm	BR	1 + 1 Branched	1.5 per m2
Ps	10	Prunus spinosa	Blackthorn	40-60cm	BR	1 + 1 Branched	1.5 per m2
Ia	15	Ilex aquifolium	Holly	40-60cm	BR	1 + 1 Branched	1.5 per m2
Qi	5	Cornus sanguinea	Dogwood	40-60cm	BR	1 + 1 Branched	1.5 per m2
Ue	5	Viburnum opulus	Guelder Rose	40-60cm	BR	1 + 1 Branched	1.5 per m2
Ag	5	Salix capraea (w)	Goat Willow	40-60cm	BR	1 + 1 Branched	1.5 per m2
Sci	5	Salix cinerea (w)	Grey Willow	40-60cm	BR	1 + 1 Branched	1.5 per m2

Ash* - Due to Chalra outbreak alternative species to be agreed with local authority
(w) - To be planted in localized areas of wet ground

Broadleaf and Scrub woodlands

Once extraction is complete, where woodland or scrub planting is proposed, the ground will be crossripped, topsoiled and prepared, finally a quarter of all areas illustrating scrub habitat will be planted to provide a 'kick-start' to the process of succession. Whilst natural succession should eventually result in establishment of native species woodland, the aim in this reinstatement is to speed up the process of establishment by providing a seedbase and starting point for regeneration. Tree and shrub species will be planted directly into previously prepared pits incorporating 30gms of approved slow release fertiliser per planting station. Transplant material of height range 300-600 mm, either cell grown or bare root stock as per schedule. Shrub and hedgerow planting would be protected by rabbit-proof guards and staked appropriately.
No fertiliser or soil improver will be used in the scrub or grassland areas. The proposed plant species will consist of native species of local provenance, where possible, but as a minimum, of Irish provenance.
This habitat will be allowed to grow to maturity with minimal maintenance and intervention.

LIGHT STANDARD TREES

	SPECIES	COMMON	SIZE (girth)	HEIGHT	APP. STEM
Ac	Acer campestre	Field Maple	6-8cm	2.5-2.75m	1.5 - 1.8m
Fe	Fraxinus excelsior*	Ash*	6-8cm	2.5-2.75m	1.5 - 1.8m
Pp	Prunus Padus	Birch Cherry	6-8cm	2.5-2.75m	1.5 - 1.8m

RESTORATION DESIGN & AFTERUSE POTENTIAL

Introduction

These reinstatement proposals address biodiversity and afteruse potential associated with existing and proposed quarrying and filling operations at Swanworth Quarry, Swanage.

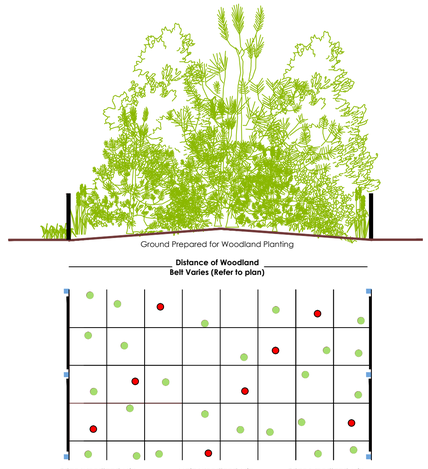
A significant proportion of the proposed ground cover (particularly on slopes and peripheral spaces would focus on establishment of Calcareous grassland with appropriate woodland and scrub planting considered.

Restoration Design Criteria

1. Restoration, infilling and rehabilitation will be applied progressively on this site where possible, as areas of extraction are reached restoration will commence.
2. Overburden and topsoil will be deposited onto surfaces and planted as they become available.
3. There will be a programme of earth ripping, topsoiling and hydroseeding in compacted areas.
4. Woodlands and scrub and grass seeding introduced as indicated on plan.
5. The final land use of the site is habitat with walking routes .

CALCAREOUS GRASS MIX WILDFLOWER MIX (G1)

SPECIES	COMMON NAME
Achillea millefolium	Yarrow
Agrostis capillaris	Common Bent
Alchemilla vulgaris	Lady's mantle
Bellis perennis	Daisy
Campanula rotundifolia	Harebell
Carex flacca	Glaucous sedge
Cynosurus cristatus	Crested Dog's Tail
Festuca rubra ssp commutata	Red Fescue
Galium verum	Lady's bedstraw
Hieracium pilosella	Mouse-ear Hawkweed
Hypochaeris radicata	Common Cat's-ear
Koeleria macrantha	Crested Hair Grass
Lotus corniculatus	Bird's foot trefoil
Linum catharticum	Fairy Flax
Koeleria macrantha	Crested Hair Grass
Plantago lanceolata	Ribwort Plantain
Succisa pratensis	Devil's-bit Scabious
Thymus praecox	Wild Thyme
Trifolium repens	White Clover



Boundary strip of woodland/hedgerow screen mix (20% evergreen)
2m wide band of woodland edge mix @ 1plant per/msq, Main woodland mix @ 0.5 per/msq
80% of plants to be transplants as per schedule, 10% light standards, 10% standards)

legend

- Site Boundary
- Existing Woodland
- Scrub / Woodland Edge (Schedule 2)
- Restoration Woodland (Schedule 1)
- Calcareous Grass Mix Schedule (G1)
- Areas where restoration is complete.
- Indicative Future Pathways (Public Rights of Way)
- Existing Public Rights of Way
- Ephemeral Wetland / Ponding
- Indicative Features Focal Point / Signage etc
- Wet Grassland
- Exposed Portland Rock Quarry Faces
- Proposed Light Standard Trees within blocks as indicated
- Proposed Blockstone piles and Rock scree

client	job no.	date	scale	by	notes	Rev
OMYA Ltd	14.114	Dec. 14	1:2000 @A1	pjm		

Landscape Restoration Concept 16 -102-100

Swanage Quarry, Swanworth

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