



OMEGA ZONE 8 PLANTING SCHEDULE
Individual Specimen Trees

Ref. No.	SPECIES	HEIGHT (cm)	GIRTH (cm)	DENSITY	TYPE	No.
1	Acer campestre	350-400	14-16	AS SHOWN	Extra Heavy Standard. Root Balled	13
2	Prunus avium	350-400	14-16	AS SHOWN	Extra Heavy Standard. Root Balled	10
3	Quercus robur	350-400	14-16	AS SHOWN	Extra Heavy Standard. Root Balled	24
4	Tilia platyphyllos	350-400	14-16	AS SHOWN	Extra Heavy Standard. Root Balled	10

Notes:
Trees to be planted in accordance with an approved planting detail and specification.

Native Hedgerow Trees

Ref. No.	SPECIES	HEIGHT (cm)	GIRTH (cm)	DENSITY	TYPE	No.
A	Acer campestre	250-300	8-10	AS SHOWN	Standard. Root Balled	14
B	Prunus avium	250-300	8-10	AS SHOWN	Standard. Root Balled	8
C	Quercus robur	250-300	8-10	AS SHOWN	Standard. Root Balled	8
D	Quercus petraea	250-300	8-10	AS SHOWN	Standard. Root Balled	11

Notes:
Trees to be planted in accordance with an approved planting detail and specification.

Native Woodland Transplant Planting (W)

SPECIES	SIZE (cm)	TYPE	DENSITY	% IN MIX	3315m²	6938m²	6435m²	TOTAL
Acer campestre	40-60	1u1 BR	1.5m Centres	10	145	305	285	735
Alnus glutinosa	40-60	1u1 BR	1.5m Centres	5	75	155	140	370
Betula pendula	40-60	1u1 BR	1.5m Centres	10	145	305	285	735
Betula pubescens	40-60	1u1 BR	1.5m Centres	5	75	155	140	370
Craetaegus monogyna	40-60	1u1 BR	1.5m Centres	10	145	305	285	735
Corylus avellana	40-60	1u1 BR	1.5m Centres	10	145	305	285	735
Fagus sylvatica	40-60	1u1 BR	1.5m Centres	7.5	110	230	215	555
Prunus avium	40-60	1u1 BR	1.5m Centres	7.5	110	230	215	555
Quercus petraea	40-60	1u1 BR	1.5m Centres	10	145	305	285	735
Quercus robur	40-60	1u1 BR	1.5m Centres	10	145	305	285	735
Sorbus aucuparia	40-60	1u1 BR	1.5m Centres	7.5	110	230	215	555
Tilia platyphyllos	40-60	1u1 BR	1.5m Centres	5	75	155	140	370
Ulmus glabra	40-60	1u1 BR	1.5m Centres	2.5	35	75	70	180
TOTAL					1460	3060	2845	7,365

Notes:
Native woodland species to be planted in random single species odd numbered groups of 5, 7, 9 etc.
All native woodland edge transplants to be planted in accordance with an approved planting detail and specification.
Transplants to be planted within 600mm high green Tubes Strub/shelters or similar approved with timber stake and 2No. ties in accordance with approved planting detail.

Native Woodland Whip Planting (WHP)

SPECIES	SIZE (cm)	TYPE	DENSITY	% IN MIX	1231m²	3363m²	1177m²	TOTAL
Acer campestre	125-150	1+2 BR	1.5m Centres	10	55	150	55	260
Alnus glutinosa	125-150	1+2 BR	1.5m Centres	5	30	75	25	130
Betula pendula	125-150	1+2 BR	1.5m Centres	10	55	150	55	260
Betula pubescens	125-150	1+2 BR	1.5m Centres	5	30	75	25	130
Craetaegus monogyna	125-150	1+2 BR	1.5m Centres	10	55	150	55	260
Corylus avellana	125-150	1+2 BR	1.5m Centres	10	55	150	55	260
Fagus sylvatica	125-150	1+2 BR	1.5m Centres	7.5	35	110	35	180
Prunus avium	125-150	1+2 BR	1.5m Centres	7.5	35	110	35	180
Quercus petraea	125-150	1+2 BR	1.5m Centres	10	55	150	55	260
Quercus robur	125-150	1+2 BR	1.5m Centres	10	55	150	55	260
Sorbus aucuparia	125-150	1+2 BR	1.5m Centres	7.5	35	110	35	180
Tilia platyphyllos	125-150	1+2 BR	1.5m Centres	5	30	75	25	130
Ulmus glabra	125-150	1+2 BR	1.5m Centres	2.5	15	35	15	65
TOTAL					540	1490	525	2,555

Notes:
Native woodland whip species to be planted in random single species odd numbered groups of 5, 7, 9 etc.
All native woodland whip transplants to be planted in accordance with an approved planting detail and specification.

Native Feathered Trees (within Woodland (W) and Whip (WHP) areas: 10% of area)

SPECIES	HEIGHT (cm)	TYPE	% IN MIX	4546m²	10,301m²	7612m²	TOTAL
Acer campestre	200-250	Feathered Root Balled	10	45	100	75	220
Betula pendula	200-250	Feathered Root Balled	15	65	160	115	340
Craetaegus monogyna	200-250	Feathered Root Balled	10	45	100	75	220
Fagus sylvatica	200-250	Feathered Root Balled	7.5	35	75	60	170
Prunus avium	200-250	Feathered Root Balled	10	45	100	75	220
Quercus robur	200-250	Feathered Root Balled	15	70	160	115	340
Quercus petraea	200-250	Feathered Root Balled	15	70	160	115	340
Sorbus aucuparia	200-250	Feathered Root Balled	10	45	100	75	220
Tilia platyphyllos	200-250	Feathered Root Balled	7.5	35	75	60	170
TOTAL				455	1030	765	2,250

Notes:
Trees to be planted in accordance with an approved planting detail and specification.

INDICATIVE GENERAL SOFT LANDSCAPE SPECIFICATION NOTES

General
Prior to planting, all earthworks associated with landscape operations are to be made good, levels graded to existing undisturbed level and to approved falls and contours as appropriate using topsoil stored from previous site strip operations and as required. Under no circumstances are new soil levels to be raised to the base of existing mature hedgerow, scrub or established trees.
If unavoidable, any damage to existing or mature planting should be kept to an absolute minimum by the establishment of new protective fence lines which are to be agreed if necessary with St. Helens Council, or at the direction of the landscape architect PlaceOnEarth or the appointed Ecology Consultant.
Where appropriate, existing topsoil should be subsoil cultivated to a minimum depth of 400mm (where services and root protection areas allow) prior to topsoil cultivation to a minimum depth of 300mm in an area (again as above).
Site work must be stopped and stored in accordance with BS3882: 2013 and if after chemical analysis in accordance with the relevant British Standard it is to be replaced with suitable approved topsoil.
Areas identified as accepting wildlife seed mixes will not require topsoil, and instead a cultivated sward to an acceptable 18m prior to seeding will be provided.
Remove all deleterious wirings from above together with any surface debris currently on site.
In new topsoil areas excavate to 100mm for grass areas and 300mm for conservation hedgerow, following a further 250mm to relieve compaction in all areas.
Replace above excavations with approved and previously stripped and stored topsoil to the following minimum depths:
Grassland areas 150mm
Hedgerow planting 450mm
Finished levels of topsoil and a sub soil where appropriate after settlement to be 50mm above adjacent natural or hard surface and both levels at all instances.
All pits for shrub, transplant or tree planting shall be prepared to the specified sizes prior to planting (see below).

Extra Heavy Standard Trees
16-18m girth trees, 18m previously prepared pits 1000x1000x100mm depth, with two supporting stakes and cross bands, creating an average of 600mm above ground level. Trees shall be planted to the growing mark and tree pits backfilled with approved top soil stored from previous strip operations. Supply and fit appropriate spiral arbor grating protection in accordance with approved planting detail and specification.
Approved nursery stock trees shall conform to BS 5424:2014 and shall be capable of producing satisfactory growth flowers and fruit in their first season. Labels clearly stating name and address of the supplier, species and variety shall be securely fixed to each tree.

Standard Trees
Standard trees shall be 2.5 - 3.0m high with a minimum girth of 8 - 10cm. The trees shall conform to BS 3098 Part 1 and shall have a well defined clear cut stem of 1500-1750mm. The root shall be adequate size in relation to crown (15 lbs per maximum of container growth). The pit minimum 400x400x300mm deep to comfortably accept root system. Enlarge if required to ensure that the tree pit diameter is at least 75mm greater than the tree root spread.
The tree shall be supported by a potted and turned larch or chestnut stakes which have been previously treated with water based preservative to BS 1282: 1999. The stakes shall be a minimum diameter of 50mm and pointed at one end. They shall be driven 300mm into ground below the excavated tree pit (or as necessary to secure the tree and protected as near to the tree as possible without interfering with the root system). The stakes shall project 150mm above ground level. If the tree is root balled or container grown stakes are to be angled at 45° and driven 300mm into the ground away from the prevailing wind. Approved mesh retainers (preservative as above) shall be 175x200mm woven rubber backed with 2No. 60mm galvanized nails per end fixed to the top of both stakes. Refer also to Figure F.8 of BS8545: 2014.
Nursery stock trees shall conform to BS 5424:2014 and shall be capable of producing satisfactory growth flowers and fruit in their first season. Labels clearly stating name and address of the supplier, species and variety shall be securely fixed to each tree.

Feathered Trees
Feathered trees shall be 200-250cm high. The trees shall conform to BS 3098 Part 1 and shall have a well defined, upright central stem with evenly spaced lateral shoots. The root system shall be adequate size in relation to the crown (10 lbs per pot of container growth).
Minimum tree pit size shall be in accordance with specific guidance set out within Section 10 of BS 5424: 2014. No deviation from this standard will be acceptable. The pit minimum 400x400x300mm deep to comfortably accept root system. Enlarge if required to ensure that the tree pit diameter is at least 75mm greater than the tree root spread.
The tree shall be supported by a potted and turned larch or chestnut stakes which have been previously treated with water based preservative to BS 1282: 1999. The stakes shall be a minimum diameter of 50mm and pointed at one end. The stakes shall be driven 100mm into ground below the excavated tree pit (or as necessary to secure the tree and protected as near to the tree as possible without interfering with the root system). The stakes shall project 150mm above ground level. If the tree is root balled or container grown stakes are to be angled at 45° and driven 300mm into the ground away from the prevailing wind. Approved mesh retainers (preservative as above) shall be 175x200mm woven rubber backed with 2No. 60mm galvanized nails per end fixed to the top of both stakes. Refer also to Figure F.8 of BS8545: 2014.
The base of the tree shall be protected using a 600mm x 50mm translucent green spiral guard (or similar approved) wrapped around the bottom of the tree stem.

Whips
Whips shall be 100-150cm high. Whips should be 1+2 3 year old seedling transplants (one year in seed bed and transplanted and grown on for 2 years). The trees shall conform to BS 3098 Part 1 and shall have a well defined, upright central stem with evenly spaced lateral shoots. The root system shall be adequate size in relation to the crown. Enlarge if required to ensure that the tree pit diameter is at least 75mm greater than the tree root spread.
The whip shall be supported by a potted and turned larch or chestnut stakes which have been previously treated with water based preservative to BS 1282: 1999. The stakes shall be a minimum diameter of 50mm and pointed at one end. The stakes shall be driven 100mm into ground below the excavated tree pit (or as necessary to secure the tree and protected as near to the tree as possible without interfering with the root system). The stakes shall project 150mm above ground level. If the tree is root balled or container grown stakes are to be angled at 45° and driven 300mm into the ground away from the prevailing wind. Approved mesh retainers (preservative as above) shall be 175x200mm woven rubber backed with 2No. 60mm galvanized nails per end fixed to the top of both stakes. Refer also to Figure F.8 of BS8545: 2014.
The base of the tree shall be protected using a 600mm x 50mm translucent green spiral guard (or similar approved) wrapped around the bottom of the tree stem.

Native Woodland Edge Transplant Planting (WE)

SPECIES	SIZE (cm)	TYPE	DENSITY	% IN MIX	3900m²	6448m²	373m²	4678m²	891m²	945m²	495m²	165m²	330m²	1075m²	TOTAL
Acer campestre	40-60	1u1 BR	1m Centres	15	585	965	55	700	135	140	75	25	50	160	2890
Corylus avellana	40-60	1u1 BR	1m Centres	15	585	965	55	700	135	140	75	25	50	160	2890
Craetaegus monogyna	40-60	1u1 BR	1m Centres	25	975	1615	95	1170	225	235	125	40	85	280	4845
Ilex aquifolium	40-60	2Lr CG	1m Centres	10	390	645	40	465	90	95	50	15	30	110	1930
Malus sylvestris	40-60	1u1 BR	1m Centres	7.5	295	495	30	360	70	70	35	25	80	245	1465
Prunus spinosa	40-60	1u1 BR	1m Centres	15	585	965	55	700	135	140	75	25	50	160	2890
Sambucus nigra	40-60	1u1 BR	1m Centres	2.5	100	160	10	115	20	25	15	5	10	25	465
Rosa canina	40-60	1u1 BR	1m Centres	5	195	325	20	235	45	50	25	10	15	50	970
Viburnum opulus	40-60	1u1 BR	1m Centres	5	195	325	20	235	45	50	25	10	15	50	970
TOTAL					3905	6450	380	4670	900	945	500	170	330	1075	19,325

Notes:
Native woodland edge species to be planted in random single species odd numbered groups of 5, 7, 9 etc.
All native woodland edge transplants to be planted in accordance with an approved planting detail and specification.
Transplants to be planted within 600mm high green Tubes Strub/shelters or similar approved with timber stake and 2No. ties in accordance with approved planting detail.

Native Hedgerow Transplant Planting Mix (NH)

SPECIES	SIZE (cm)	TYPE	DENSITY	% IN MIX	51 Lin Mtrs	27 Lin Mtrs	75 Lin Mtrs	220 Lin Mtrs	342 Lin Mtrs	55 Lin Mtrs	260 Lin Mtrs	TOTAL
Acer campestre	40-60	1u1 BR	8 per linear metre. Double Staggered Row	15	35	35	90	350	410	65	310	1235
Corylus avellana	40-60	1u1 BR	8 per linear metre. Double Staggered Row	20	85	45	120	350	550	90	415	1655
Craetaegus monogyna	40-60	1u1 BR	8 per linear metre. Double Staggered Row	40	165	85	240	705	1095	175	835	3,300
Ilex aquifolium	40-60	3Lr CG	8 per linear metre. Double Staggered Row	10	40	20	60	175	275	45	210	825
Prunus spinosa	40-60	1u1 BR	8 per linear metre. Double Staggered Row	15	60	35	90	265	410	65	310	1235
TOTAL					410	220	600	1760	2740	440	2080	8,250

Notes:
Native hedgerow species to be planted in random single species odd numbered groups of 5, 7, 9 etc.
All native transplants to be planted in accordance with an approved planting detail and specification.
Hedgerow transplants to be planted with 600mm high clear spiral rabbit guard and supporting cane in accordance with an approved planting detail.

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SAFETY - HEALTH AND ENVIRONMENTAL INFORMATION

- In addition to the hazards / risks normally associated with the types of work detailed on this drawing, note the following:
- Construction**
- No abnormal risk.
- Maintenance / Cleaning**
- The Contractor and Facilities Manager are reminded that the perimeter of the site is maintained as fully accessible to the public. In this, all footpaths and roadways including those upon which soft landscape impacts, are to be maintained in a clean and tidy condition and free from over hanging vegetation.
 - Particular care is to be taken when maintaining shrub planted areas to avoid accidental contact with dangerous waste materials, which may have been discarded in such areas.
 - The use of chemical based herbicides in landscape maintenance is to be discouraged in favour of organically based herbicides.
 - Pruning of trees and shrubs during the bird nesting season must be undertaken following a thorough inspection for the presence or otherwise of active nests.
- Decommissioning / Demolition**
- In the event of existing tree removal, all soft landscape areas and trees must first be inspected for the presence of nesting birds and all protected species generally. Ideally, tree and shrub removal should be completed south of the recognised bird nesting season which is March to September.
 - Prior to the removal of shrub planting, a thorough site clean must be undertaken to establish the absence of any potential dangerous waste material, which could cause accidental harm.

It is assumed that all works will be carried out by a competent contractor, working where appropriate, to an approved method statement. This is not an exhaustive list and reference should be made to the Health and Safety Plan. Where no items are indicated no residual risks are thought to be present.

ALL DIMENSIONS TO BE CHECKED ON SITE PRIOR TO COMMENCEMENT OF ANY WORK. PLACEON EARTH ARE TO BE NOTIFIED OF ANY OMISSIONS OR ERRORS PRIOR TO COMMENCEMENT OF ANY SETTING OUT, WORKS OR ORDERING OF MATERIALS.

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EXACT SERVICES LOCATIONS ARE NOT KNOWN AND ARE TO BE CONFIRMED BY THE ENGINEER.
IT IS THE RESPONSIBILITY OF THE CONTRACTOR PRIOR TO UNDERTAKING ANY WORK OR BREAKING GROUND TO SCAN/CHECK FOR THE LOCATION OF ALL SERVICES AND MARK OUT ON SITE. ANY CONFLICT WITH PROPOSED LANDSCAPE PLANTING AREAS SHOULD BE REPORTED TO PLACEON EARTH PRIOR TO UNDERTAKING ANY WORKS.

TREE LOCATIONS ARE DEPENDANT ON LOCATION OF ADJACENT/PROPOSED SERVICES AND REQUIRED STANDOFF AND TO BE CONFIRMED BY THE ENGINEER (SEE ABOVE).

ROOT BARRIERS ARE TO BE INSTALLED (WHERE REQUIRED) TO STRE ADJACENT TO SERVICES, BUILDINGS, ROADS AND PATHWAYS AND INSTALLED IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS AND SPECIFICATIONS.

ALL DIMENSIONS ARE IN MILLIMETRES (UNLESS STATED).

THIS DRAWING IS FOR PLANNING PURPOSES ONLY AND NOT FOR CONSTRUCTION.

REFER TO INSET 2 FOR CONTINUATION OF AREA

INSET 1

REFER TO INSET 1 FOR CONTINUATION OF AREA

INSET 2

Rev	Date	Description	By	Check
A	18.12.19	Planning boundary revised. Planting added to south of path. Schedules revised.		NRW

Client
OMEGA ST. HELENS LTD / T.J.MORRIS LIMITED

Project
OMEGA ZONE 8

Detailed title block:
Drawn: NRW/PT, Checked: NRW, Scale: 1:1000@A0 PLANNING, Date: 12/19, Revision: A
Drawing No.: POE_199_005, Date: 12/19, Revision: A

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