WE1 WHP 1	+ + + + + + + + + + + + + + + + + + +
WE1 227,75m W1	$\begin{array}{c} \begin{array}{c} \begin{array}{c} \\ \\ \\ \\ \\ \\ \\ \end{array} \end{array} \end{array} \begin{array}{c} \\ \\ \\ \\ \\ \\ \\ \\ \end{array} \end{array} \begin{array}{c} \\ \\ \\ \\ \\ \\ \\ \\ \end{array} \end{array} \begin{array}{c} \\ \\ \\ \\ \\ \\ \\ \\ \\ \end{array} \begin{array}{c} \\ \\ \\ \\ \\ \\ \\ \\ \\ \end{array} \begin{array}{c} \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \end{array} \begin{array}{c} \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \end{array} \end{array} \begin{array}{c} \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\$
	WE1 + + + + + + + + + + + + + + + + + + +
Type 1 (default) tree protective fencing set back within Root Protection Area (RPA) to allow for proposed works. Refer to POE dwg. No. 199_007_Detail 7 for details of Tree	$\begin{array}{c} + + + + \frac{1}{2} \\ + + + + + + + + + + + + + + + + + + $
Protection fencing. All works within or adjacent to RPA's are to be undertaken in full accordance with approved Arboricultural Method Statement (AMS) and BS5837 2012 Trees in Relation to Design, Demolition and Construction: Recommendations. Seeding/planting works within the RPA to be undertaken once main works are complete	$\begin{array}{c} \begin{array}{c} \begin{array}{c} \end{array} \\ \end{array} \\ \end{array} \\ \end{array} \\ \end{array} \\ \end{array} \\ \begin{array}{c} \end{array} \\ \end{array} \\ \end{array} \\ \begin{array}{c} \end{array} \\ \end{array} \\ \begin{array}{c} \end{array} \\ \end{array} \\ \end{array} \\ \begin{array}{c} \end{array} \\ \end{array} \\ \end{array} \\ \begin{array}{c} \end{array} \\ \end{array} \\ \end{array} \\ \end{array} \\ \begin{array}{c} \end{array} \\ \end{array} \\ \end{array} \\ \end{array} \\ \begin{array}{c} \end{array} \\ \end{array} $
and protective fencing has been removed; subject to approval of St Helen's Council Tree Officer and in full accordance with the approved AMS and BS5837:2012 as noted above.	
LEGEND Proposed Extra Heavy Standard / Standard Tree Planting (Refer to Schedules)	
(Refer to Schedules) Proposed Native Woodland Planting (DLF PM 26 Ecosward Low Maintenance Landscape: Mix Amenity Grass Seed Sown to All Native Woodland Edge Areas: Sowing rate in accordance with manufactures recommendations.) (Refer to Schedules)	
Proposed Native Woodland Edge Planting (DLF PM 26 Ecosward Low Maintenance Landscape: Mix Amenity Grass Seed Sown to All Native Woodland Edge Areas: Sowing rate in accordance with manufactures recommendations.) (Refer to Schedules)	
+ + + + + + + + + + + + + + + + + + +	Fransplant Planting to Plain Plantation (PROVISIONAL)
confirmed. Sowing rate in accordance with manufactures recommendations) SPECIES Proposed Wild Flora Seeding To Attenuation Basin and Margins Acer campestre (DLF Pro Flora 5 Wet Loamy Soils Mix or similar approved: Exact mix to be confirmed. Sowing rate in accordance with manufactures recommendations) Acer campestre Proposed Ponds (Habitat Creation) Corylus avellana	SIZE (cm) TYPE DENSITY 40-60 1u1 BR 1m Centres 40-60 1u1 BR 1m Centres
(Exact details TBC) Crataegus monogyna Existing Woodland / Trees / Vegetation To Be Retained and Protected (In full accordance with B5 5837 2012 Trees in Relation to Design, Demolition and Construction; Recommendations.) Illex aquifolium	a 40-60 1u1 BR 1m Centres 40-60 2Ltr CG 1m Centres 40-60 1u1 BR 1m Centres
Existing Contours Proposed Contours Viburnum opulus	40-60 1u1 BR 1m Centres
Proposed Red Line Boundary (Refer to Chetwoods drawings for details) Root Protection Area (RPA)	
Refer to The Ecology Practice Tree Survey for details. Allow 15% of area. To the roots within the existing roots within the existing number 199_007 Detail 7 for details. Refer to POE drawing number 199_007 Detail 7 for details. Allow 15% of area. To the roots within the existing number 199_007 Detail 7 for details.	be planted in full accordance with BS5837 2012 and approved method sta g plantation. Decies to be planted in random single specie odd numbered groups of 3,5,7 etc e transplants to be planted in accordance with an approved planting detail and d within 600mm high green Tubex Shrub shelters or similar approved with timb
with approved planting d	
Type 1 (default) tree protective fencing set back within Root Protection Area (RPA) to allow for proposed works. Refer to POE dwg. No. 199_007_Detail 7 for details of Tree Protection fencing. All works within or adjacent to RPA's are to be undertaken in	
full accordance with approved Arboricultural Method Statement (AMS) and BS5837 2012 Trees in Relation to Design, Demolition and Construction: Recommendations. Seeding/planting works within the RPA to be undertaken once main works are complete and protective fencing has	
been removed; subject to approval of St Helen's Council Tree Officer and in full accordance with the approved AMS and BS5837:2012 as noted above.	
	OLOV OV 10 10 WEG
INSET 2	
	Native Woodland Whi
OMEGA ZONE 8 PLANTING SCHEDULE	
OMEGA ZONE 8 PLANTING SCHEDULE Individual Specimen Trees Ref. No SPECIES HEIGHT (cm) GIRTH (cm) DENSITY TY	YPE No. SPECIES Acer campestre

Quercus robur	350-400	14-16	AS SHOWN	Extra Heavy Standard. Root Balled	29	Betula pubescens
Tilia cordata	350-400	14-16	AS SHOWN	Extra Heavy Standard. Root Balled	15	Crataegus monogyr
Notes:	an approved planting detail and appoific	ation				Corylus avellana
Trees to be planted in accordance with						Prunus avium
la duana un Tura a						Quercus petraea
leagerow Trees						Quercus robur
SPECIES	HEIGHT (cm)	GIRTH (cm)	DENSITY	ТҮРЕ	No.	Sorbus aucuparia
Acer campestre	250-300	8-10	AS SHOWN	Standard. Root Balled	19	Tilia cordata
Prunus avium	250-300	8-10	AS SHOWN	Standard. Root Balled	13	Notos
Quercus robur	250-300	8-10	AS SHOWN	Standard. Root Balled	22	Notes: Native woodland whip sp
Quercus petraea	250-300	8-10	AS SHOWN	Standard. Root Balled	8	All native woodland edge
Notes: Trees to be planted in accordance with	an approved planting detail and specific	ation.	,			
	Tilia cordata Notes: Trees to be planted in accordance with Hedgerow Trees SPECIES Acer campestre Prunus avium Quercus robur Quercus petraea Notes:	Tilia cordata 350-400 Notes: Trees to be planted in accordance with an approved planting detail and specific Iedgerow Trees Image: Specific state stat	Classical in accordanceTilia cordata350-40014-16Notes: Trees to be planted in accordance with an approved planting detail and specification.14-16Iedgerow TreesHEIGHT (cm)GIRTH (cm)Acer campestre250-3008-10Prunus avium250-3008-10Quercus robur250-3008-10Quercus petraea250-3008-10	Tilia cordata350-40014-16AS SHOWNNotes: Trees to be planted in accordance with an approved planting detail and specification.AS SHOWNIedgerow TreesHEIGHT (cm)GIRTH (cm)DENSITYAcer campestre250-3008-10AS SHOWNPrunus avium250-3008-10AS SHOWNQuercus robur250-3008-10AS SHOWNQuercus petraea250-3008-10AS SHOWNNotes:101010	Tilia cordata350-40014-16AS SHOWNExtra Heavy Standard. Root BalledNotes: Trees to be planted in accordance with an approved planting detail and specification.Image: Cordan of the specification of the	Tilia cordata350-40014-16AS SHOWNExtra Heavy Standard. Root Balled15Notes: Trees to be planted in accordance with an approved planting detail and specification.1515Iddgerow TreesSPECIESHEIGHT (cm)GIRTH (cm)DENSITYTYPENo.Acer campestre250-3008-10AS SHOWNStandard. Root Balled19Prunus avium250-3008-10AS SHOWNStandard. Root Balled13Quercus robur250-3008-10AS SHOWNStandard. Root Balled22Quercus petraea250-3008-10AS SHOWNStandard. Root Balled23Notes:10AS SHOWNStandard. Root Balled2425Rotes:101010101010Rotes:101010101010Rotes:101010101010Rotes:101010101010Rotes:101010101010Rotes:101010101010Rotes:101010101010Rotes:101010101010Rotes:101010101010

Native woodland Transplant Plantil	ng (vv)							
					3315m ²	6938m ²	6435m ²	
SPECIES	SIZE (cm)	TYPE	DENSITY	% IN MIX	W1	W2	W3	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
Crataegus 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
Prunus avium	40-60	1u1 BR	1.5m Centres	8	115	245	225	585
Quercus petraea	40-60	1u1 BR	1.5m Centres	7	105	60	55	220
Quercus robur	40-60	1u1 BR	1.5m Centres	20	290	755	705	1750
Sorbus aucuparia	40-60	1u1 BR	1.5m Centres	10	145	305	285	735
Tilia cordata	40-60	1u1 BR	1.5m Centres	5	75	155	140	370
		1		TOTAL	1460	3050	2830	7,340
1-4					1			

Native woodland species to be planted in random single specie odd numbered groups of 3,5,7 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 Tubex Shrub shelters or similar approved with timber stake and 2No. ties in accordance with approved planting detail. REFER TO POE DRAWING NUMBER 199 005b FOR DETAILS OF WILDFLOWER SEED MIXES

SPECIES

Acer campestre

Betula pendula

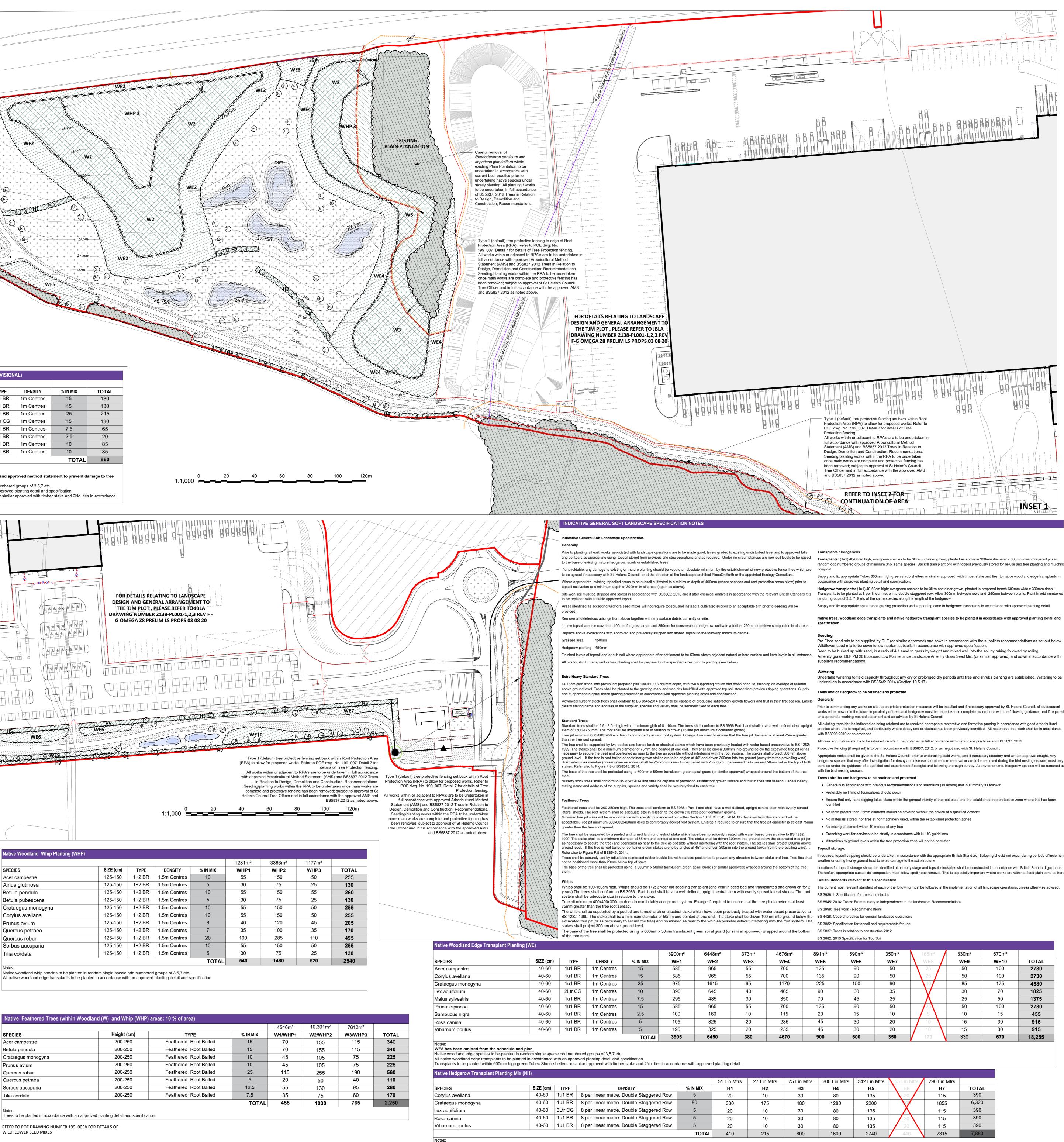
Prunus avium

Quercus robur

Quercus petraea

Sorbus aucuparia

Tilia cordata



If required, topsoil stripping should be undertaken in accordance with the appropriate British Standard. Stripping should not occur during periods of inclement weather or during heavy ground frost to avoid damage to the soil structure. Thereafter, appropriate subsoil de-compaction must follow spoil heap removal. This is especially important where works are within a flood plain zone as here.

ansplant Planting (V	VE)														
					3900m²	6448m²	373m²	4676m ²	891m²	590m²	350m²	165m²	330m ²	670m²	
	SIZE (cm)	TYPE	DENSITY	% IN MIX	WE1	WE2	WE3	WE4	WE5	WE6	WE7	WE8	WE9	WE10	TOTAL
	40-60	1u1 BR	1m Centres	15	585	965	55	700	135	90	50	25	50	100	2730
	40-60	1u1 BR	1m Centres	15	585	965	55	700	135	90	50	25	50	100	2730
	40-60	1u1 BR	1m Centres	25	975	1615	95	1170	225	150	90	40	85	175	4580
	40-60	2Ltr CG	1m Centres	10	390	645	40	465	90	60	35	V	30	70	1825
	40-60	1u1 BR	1m Centres	7.5	295	485	30	350	70	45	25	Λ	25	50	1375
	40-60	1u1 BR	1m Centres	15	585	965	55	700	135	90	50	25	50	100	2730
	40-60	1u1 BR	1m Centres	2.5	100	160	10	115	20	15	10	5	10	15	455
	40-60	1u1 BR	1m Centres	5	195	325	20	235	45	30	20	10	15	30	915
	40-60	1u1 BR	1m Centres	5	195	325	20	235	45	30	20	10	15	30	915
			•	TOTAL	3905	6450	380	4670	900	600	350	170	330	670	18,255

green	Tubex Shirub	shellers of si	imilar approved with timber stake and zno. ties in accord	lance with approved	i planting detail.							
lix (NH	ł)											
					51 Lin Mtrs	27 Lin Mtrs	75 Lin Mtrs	200 Lin Mtrs	342 Lin Mtrs	55 Lin Mtrs	290 Lin Mtrs	
	SIZE (cm)	TYPE	DENSITY	% IN MIX	H1	H2	H3	H4	H5	H6	H7	TOTAL
	40-60	1u1 BR	8 per linear metre. Double Staggered Row	5	20	10	30	80	135	20	115	390
	40-60	1u1 BR	8 per linear metre. Double Staggered Row	80	330	175	480	1280	2200	16/	1855	6,320
	40-60	3Ltr CG	8 per linear metre. Double Staggered Row	5	20	10	30	80	135	A	115	390
	40-60	1u1 BR	8 per linear metre. Double Staggered Row	5	20	10	30	80	135	20	115	390
	40-60	1u1 BR	8 per linear metre. Double Staggered Row	5	20	10	30	80	135	20	115	390
				TOTAL	410	215	600	1600	2740	440	2315	7,880

Crataegus to be the dominant species within the hedgerow and planted along full length of run. Other species to be planted in random scattered groups of 1, 3 or 5no within hedgerow.

Hedgerow transplants to be planted with 600mm high clear spiral rabbit guard and supporting cane in accordance with an approved planting detail.

1111111111

INSET 1

random odd numbered groups of minimum 3no. same species. Backfill transplant pits with topsoil previously stored for re-use and tree planting and mulching Supply and fix appropriate Tubex 600mm high green shrub shelters or similar approved with timber stake and ties to native woodland edge transplants in

Hedgerow transplants: (1u1) 40-60cm high; evergreen species to be 3litre container grown, planted in prepared trench 600mm wide x 300mm deep. Supply and fix appropriate spiral rabbit grazing protection and supporting cane to hedgerow transplants in accordance with approved planting detail

Native trees, woodland edge transplants and native hedgerow transplant species to be planted in accordance with approved planting detail and

Undertake watering to field capacity throughout any dry or prolonged dry periods until tree and shrubs planting are established. Watering to be

Prior to commencing any works on site, appropriate protection measures will be installed and if necessary approved by St. Helens Council, all subsequent works either new or in the future in proximity of trees and hedgerow must be undertaken in complete accordance with the following guidance, and if required to

Appropriate notice shall be given to the St. Helens Council prior to undertaking said works, and if necessary statutory and written approval sought. Any hedgerow species that may after investigation for decay and disease should require removal or are to be removed during the bird nesting season, must only be done so under the guidance of a qualified and experienced Ecologist and following thorough survey. At any other time, hedgerow species will be removed out

• Ensure that only hand digging takes place within the general vicinity of the root plate and the established tree protection zone where this has been

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AFETY - 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.
- ecommissioning / 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 undertaken outwith of the recognised bird nesting season which is March to September. Prior to the removal of shrub planting, a thorough site cleanse 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. PLACEONEARTH ARE TO BE NOTIFIED OF ANY OMISSIONS OR ERRORS PRIOR TO COMMENCMENT OF ANY SETTING OUT, WORKS OR ORDERING OF MATERIALS.

DO NOT SCALE FROM THIS DRAWING. FIGURED DIMENSIONS ONLY ARE TO BE USED.

PLACEONEARTH LTD CAN NOT BE HELD RESPONSIBLE FOR THE ACCURACY OF INFORMATION PRODUCED BY OTHERS FOR THE PURPOSES OF PRODUCING OUR DRAWINGS LE. TOPOGRAPHICAL SURVEYS, ARCHITECTS LAYOUTS, AREA MEASUREMENTS ARE PROVIDED FOR INFORMATION ONLY. ANY VERIFICATION OF MEASUREMENTS SHOULD BE SOUGHT FROM A SUITABLY QUALIFIED SURVEYOR.

PLACEONEARTH LTD CAN NOT BE HELD RESPONSIBLE FOR THE ACCURACY OF COMPUTER SOFTWARE USED TO DETERMINE MEASUREMENTS.

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 PLACEONEARTH 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 TREES 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.

lev	Date	Description	Review
Н	04 08 20	Path alignment revised in line with WSP plan. TJM plot layout updated. Landscape layout revised in line with changes to path alignment and TJM layout. schedules updated and revised.	NRW
G	02 06 20	Tree Protection fencing added.	NRW
F	20 04 20	Drawing status revised to Tender	NRW
Е	16 04 20	Note added to TJM Plot.	NRW
D	01 04 20	TJM Plot layout revised in line with architects layout. Cycleway alignment revised in line with amended TJM plot.	NRW
С	20.03.20	Schedules revised.	NRW
В	09.03.20	Planting within 'landscape corridor' revised in line with St Helen's Council Tree and Woodlands Officer Comments. Planting areas revised and species numbers amended. Species, % in mixes revised in line with St Helen's Council Comments.Schedules revised. TJM Plot updated. Access road updated.	NRW
Α	18.12.19	Planning boundary revised. Planting added to south of path. Schedules revised.	NRW

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

OMEGA ZONE 8

DETAILED PLANTING PLAN (INFRA DWG.15)

Drawn	Checked	Scale@A1	Issue	
NRW/PT	NRW	1:1000@A0	TENDER	
Drawing No.		Date	Revision	
POE_199_0	005a	12/19	н	

landscape design

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