LEGEND

SOFT LANDSCAPE ELEMENTS

- Existing trees and scrub retained & protected during works , inc. protective fencing, in accordance with JB Consulting Arboricultural Method Statement
- Areas of existing woodland floor retained unaffected by works
- Proposed native trees to proposed gardens - where space permits
- Proposed ornamental species trees of value to wildlife to front gardens (where space too restricted for natives
- Proposed fruit trees to rear gardens
- Proposed pleached trees to retaining wall, to plot 9-14 rear gardens
- Proposed structure hedges to front gardens(including some native species)
- Proposed low formal edging plants eg box, dwarf holly to feature beds to front gardens
- Proposed specimen plants
- Proposed shrubs, groundcovers, grasses, herbaceous perennials, to front gardens and selected locations in rear gardens
- Proposed wall shrubs & climbing plants

SOFT LANDSCAPE ELEMENTS -continued

- Proposed marginal /aquatics to margins of existing Pond 2
- Proposed low maintenance fescue rich grass mix
- Proposed turfed or seeded lawns
- Proposed Bulb planting beneath selected trees in lawns eg fruit trees (for early pollen source)
- Reinforced Grass eg Ecogrid to sub station parking bay in filled with topsoil and a hard wearing grass seed mix (or gravel TBA)
- 1m x 1m visibility splays to path/ driveway junctions-max 600mm height groundcovers
- Special measures within RPA's of existing trees-as specified by JB Consulting in AMS

LEGEND

BIRD & BAT BOXES & BIODIVERSITY HABITATS FOR INVERTEBRATES & AMPHIBIANS- AS RECOMMENDED IN LIVING ECOSYSTEMS LEMP (Locations indicative -precise locations TBA with Ecologist)

- **1SP** 1 no. Schwegler 1SP Sparrow Terrace (woodcrete).To be fitted to the rear elevation of one of the houses of plots 10-14 facing north, positioned close to the eaves on the northern or eastern aspect to keep out of strong sunlight and prevailing winds. available from www.nhbs.com. Colour TBA - Brown colour Ref #185100 or Stone(grey coloured) Ref: #185099 Locations indicative - Precise location & colour TBA with ecologist and architect
- **SW** 2 no. Schwegler Three Bay Swift Nest Box (woodcrete) To be installed on rear elevation of two of the houses of plots 10-14 .To be installed close to the eaves/ under shelter of overhanging roof, with a northern or eastern aspect to keep out of strong sunlight and prevailing winds. The box should be installed at least 6-8m above ground level , ensuring there is unobstructed access for birds. available from www.nhbs.com Ref: 17A Shwegler Swift Nest box(Triple cavity) # 18920 . Precise location TBA with ecologist and architect
- **1H** 5 no. 1H Schwegler Open fronted Bird Nest Boxes, hung from existing trees or fixed to trunk using tree friendly aluminium nails, in sheltered positions /aspect in vicinity of Pond 2 . Locations indicative - TBA with Ecologist.
- **1B** 5 no. 1B Schwegler Closed Front Bird Nest Boxes (with 32mm hole , hung from existing trees or fixed to trunk using tree friendly aluminium nails, in sheltered positions /aspect in the vicinity of Pond 2 . Locations indicative - TBA with Ecologist.
- **1FQ** 2 no 1FQ Schwegler Wall Mounted Bat Roosts (woodcrete) located close to roof eves on north facing elevations of selected houses (plots 10 - 14) Can be painted to match building in 'air permeable' paint , available from www.NHBS.com Ref: #177099. Locations indicative, Precise locations TBA with ecologist & architect
- **2F** 12 no Schwegler 2F Bat Boxes in total: 9 no. attached in sets of three to three selected suitable mature trees on south boundary; and a further 3 no to a suitable tree in vicinity of Pond 2 Boxes to be located to a height of 4-7m, pointing in different aspects on each tree. To be hung from a branch near to trunk, or fixed using 'tree friendly' aluminium nails , available from www.nhbs.com. Locations indicative TBA with Ecologist
- Standing deadwood / (away from paths) favouring removal of sycamore, and ring barking base of tree. See LEMP for details .Tree locations TBA with Ecologist
- Fallen deadwood / tree trunks, in selected locations -reusing trees removed to facilitate development , Locations indicative TBA with Ecologist
- **AH** 2 no. Amphibian hibernacular created in locations TBA near to pond 2 in accordance with LEMP requirements - created by piling up logs, dead wood, bricks, stones, brash etc Locations indicative, TBA with Ecologist
- Piles of logs/ brash

NB: Once inhabited Bat Boxes must only be disturbed by a qualified Ecologist
All garden fence elevations to have at least one 13cm x 13cm hole in base for hedgehog access between gardens

OUTLINE PLANTING SCHEDULE

KEY	SPECIES	%	SPECIFICATION	NO/M2
DECIDUOUS NATIVE STRUCTURE TREES (WHERE SPACE PERMITS)			14-16cm Extra Heavy Standard	
Bpu	Betula pubescens (Downy Birch)		4.5-6.25m ht,2.0 m clear stem	
Ms	Malus sylvestris (Native Crab Apple)		1.5 x 1.5m x 700mm pits	
Qp	Quercus petraea (Native Sessile Oak)		Rootballed If planted Nov- Mar	
Pp	Prunus padus (Native Bird Cherry)		CG If Planted April to Oct	
Sa	Sorbus aucuparia (Native Rowan)		1.5m x 1.5m x 700mm pits. Double Staked & Cross Bar,Spiral Rabbit guards	
DECIDUOUS ORNAMENTAL STRUCTURE TREES TO FRONT GARDENS (SMALLER ORNAMENTAL/ COMPACT CROWNED SPECIES OF VALUE TO WILDLIFE (WHERE SPACE RESTRICTED)			14-16cm Extra Heavy Standard	
AA	Acer campestre Arends (Uniform crowned Field Maple)		4.5-6.25m ht,2.0 m clear stem	
AI	Amelanchier lamarckii (Snowy Mespilus/Juneberry)		1.5 x 1.5m x 700mm pits	
PU	Prunus umenika (Snow Goose Cherry)		Rootballed If planted Nov- Mar	
SR	Sorbus auc. Rossica Major (Uniform crowned Rowan)		CG If Planted April to Oct	
SJ	Sorbus Joseph Rock (small Rowan Variety)		1.5m x 1.5m x 700mm pits. Double Staked & Cross Bar,Spiral Rabbit guards	
PROPOSED CULINARY FRUIT TREES TO REAR GARDENS (OF VALUE TO WILDLIFE RE FRUIT & NECTAR)			**Fruit Half Standards**	
ML	Malus Lord Lambourne Apple (Group 3) (Hardy Eating Apple)		6-8cm girth+, 1.2-1.5m clear stem	
MS	Malus Sparton (Group 3) (Hardy Eating Apple)		2.5-3.0m ht Vase shaped crown	
MW	Malus Worcester Permain Apple(Group 3) (Hardy Eating Apple)		C.G. 25-50L MM106 Rootstock	
PV	Prunus domestica Guinevere (SF/group 3) (Dessert Plum)			
PJ	Prunus dmestica Jubilee (SF/group 3) (Dessert Plum)			
PROPOSED PLEACHED TREES TO REAR GARDEN RETAINING WALLS (INC NATIVES & SPECIES OF WILDLIFE VALUE)				
Cb	Carpinus betulus (Native Hornbeam)		14-16cm girth, 45-70L pot	
CP	Crataegus Pauls Scarlet (Hawthorn Variety)		1.8m -2.0m ht clear stem, with	
IN	Ilex Nellie Stevens (Holly variety)		1.2m ht x 1.5m wide	
ME	Malus Everaste (Crab Apple variety)		pleached head/canopy	
Fs	Fagus sylvatica (Native Beech)		Supplied on a frame	
Te	Tilia europea Pallida or Tilia platyphilus (Lime varieties)			
PROPOSED SINGLE SPECIES HEDGES TO FRONT GARDENS (INC NATIVES)				
FAG SYL	Fagus sylvatica (Native Beech)		SL 90-120cm	6/ lin m
PRU LAU	Prunus laurocerasus Rotundifolia		SL 60-90cm ht	4/ lin m
ILE AQU	Ilex aquifolium (Native Holly)		SL 80-100cm	3/ lin m
TAX BAC	Taxus baccata (Native Yew)		SL 70-90 cm ht	4/ lin m
Hedge Plants to be bushy/ well foliaged. If planted April to October to be container grown				
SPECIMEN SHRUBS (INCLUDING THOSE OF VALUE TO WILDLIFE POLLEN, NECTAR, FRUIT, BERRIES)				
AME LAM	Amelanchier lamarckii (Snowy Mespilus)		50L 150- 175cm Multi stem	
COR MID	Cornus Midwinter Fire (Compact dogwood variety)		10L 80-100cm multi stem	
HAM MOL	Hammammelis mollis Pallida (Wych Hazel)		50L 150- 175cm Multi stem	
MAG STE	Magnolia stellata (Star Magnolia)		50L 150- 175cm Multi stem	
PHO DUE	Phormium Duet (New Zealand Flax Variety)		15L 60-80cm	
PHO SUN	Phormium Sundowner (New Zealand Flax)		25L 100-125cm	
VIB DAW	Viburnum bodnantense Dawn (winter flowering Viburnum)		10L 40-60cm	
VIB EVE	Viburnum Eve Price (Viburnum variety)		10L 40-60cm	
	50L Specimens Planted In 700mm3 pits: 15-25L Specimens planted in 600mm3 topsoil pits			
WALL SHRUBS TO FRONT BOUNDARY WALLS, AND FENCES				
CEA DAR	Ceanothus Dark Star (Ceanothus variety)		5L 40-60cm	
CHA SPE	Chaenomeles speciosa Simonsii (Quince variety)		5L 40-60cm	
COT HOR	Cotoneaster horizontalis (Wall Cotoneaster)		5L 40-60cm	
CHO AZT	Choisya Aztec Pearl Mexican Orange Variety)		5L 40-60cm	
CHO TER	Choisya ternata (Mexican Orange)		5L 40-60cm	
KER PLE	Kerria japonica Pleniflora (Kerria)		3L 30-40cm	
PIE FOR	Pieris forestii Forest Flame (Pieris variety)		5L 40-60cm	
ORNAMENTAL INFORMAL FLOWERING HEDGING PLANTS BENEATH THE PLEACHED TREES TO RETAINING WALLS				
CEA YAN	Ceanothus Yankee Point (Ceanothus variety)		5L40-60cm	2/ lin m
LAV HID	Lavendula spica Hidcote* (Compact Lavender)		5L 20-30cm	5/lin m
HEB MRS	Hebe Mrs Winder (mauve flowered Hebe)		5L 20-30cm	5/lin m
SKI RUB	Skimmia japonica Rubella (Male Skimmia variety)		5L 30-40cm	5 lin m
SAR CON	Sarcococca Confusa (Sweet Box)		3L 15-20cm	5 / lin m
SEN SUN	Senecio Sunshine		5L 40-60cm	3/ lin m
* Senecio, and Lavender, Santolina, Pinus Pumilo must be bushy compact specimens - not leggy				
ORNAMENTAL SHRUB AND GROUNDCOVER PLANTING INCLUDING SPECIES OF VALUE TO WILDLIFE				
BER COR	Bergenia cordifolia (Elephant Ears)		2L	5/m2
BUD BLU	Buddleia Blue Chip (Dwarf Butterfly Bush)		3L 30-40cm	4/m2
CHO SUN	Choisya ternata Sunshine (Golden Choisya variety)		3L 20-30cm	3/m2
CEA YAN	Ceanothus Yankee Point (Ceanothus variety)		3L 30-40cm	2/ lin m
CAL KAR	Calamagrostis acutifolus Karl Foerster (Ornamental Grass)		3L	5/m2
CAR ICE	Carex Ice Dance (Evergreen Striped Grass)		5L	5/m2
CEA REP	Ceanothus thyrsiflorus Repens		3L 30-40cm	3/m2
CEA BLU	Ceanothus Blue Mound (Low Shrub Ceanothus)		3L 30-40cm	4/m2
CYT PRA	Cytisus praecox (Broom)		2L 30-40cm	4/m2
DRY AFF	Dryopteris affine (Evergreen Fern)		2L	5/m2
ESC RED	Escallonia Red Elf (Dwarf Escallonia)		3L 30-40cm	4/m2
EUO EME	Euonymus Emerald Gaiety (Groundcover Euonymus)		2L20-30cm	5/m2
HEB MID	Hebe Midsummer Beauty		3L 30- 40cm	4/ m2
HEB AUT	Hebe Autumn Glory (Violet Flowered Hebe)		2L 20-30cm	5/m2
HEB RAK	Hebe rakaiensis (Groundcover Hebe)		10L 30-40cm dia	3-4/ m2
JUN MIN	Juniper Mint Julep		3L 30- 40cm	4/ m2
LAV HID	Lavendula spica Hidcote* (Lavender)		2L 15-20cm	9/m2
LON PIL	Lonicera pileata		3L 30-40cm	4/m2
MAH APP	Mahonia aquifolium Appollo		3L30-40cm	4/m2
MIS GRA	Miscanthus Gracimilus (Grass Variety)		3L 30-40cm	4/ m2
LIR BIG	Liriope muscari Big Blue (Large flowered Liriope)		2L	6/m2
PIN PUM	Pinus mugho Pumilo* (Dwarf Pine groundcover		3L 30-40cm	4/m2
RIB AMO	Ribes sanguineum Amour (Flowering redcurrant variety)		2L 30-40cm	4/m2
ROS FRA	Rosa Frau Dagmar hastrup (Groundcover Rose)		3L 30-40cm	4/ m2
SAR CON	Sarcococca Confusa (Sweet Box)		3L 15-20cm	5 / lin m
SEN SUN	Senecio Sunshine*		3L 30-40cm	3/m2
STI TEN	Stipa tenuissifolia (Pony Tail Grass)		2L	5/m2
SKI RUB	Skimmia japonica Rubella		2-3L 20-30cm	4/m2
VER BON	Verbena bonariensis (Argentinian Vervain)		3L 30-40cm	3/m2
VIB DAV	Viburnum davidii (Dwarf Viburnum)		3L 30-40cm	4-5/m2
WIE FOL	Wiegelia folis Purpureus (Dwarf Wiegela)		3L 40-60cm	4/m2
VIN VAR	Vinca major Variegata (Greater Periwinkle var.)		2L 30-40cm	5/m2
	* Senecio, Lavender, Santolina, Pinus Pumilo must be compact/ bushy specimens - not leggy Shrubs & Groundcovers to be planted in 450mm depth topsoil beds; 75mm depth bark mulch			
INDIGENOUS MARGINAL/AQUATIC PLANTS TO EDGES OF POND 2 (SPECIES & NUMBERS TBA WITH ECOLOGIST)				
BUT UMB	Butomus umbellatus (Flowering Rush)	10%		
CAL PAL	Caltha palustris (Marsh Marigold)	10%		
CAR PSE	Carex pseudocyperus (Cyperus Sedge)	10%	To be supplied in	
FIL ULM	Filipendula ulmaria (Meadowsweet)	5%	1 litre pots and	3-4/m2
JUN INF	Juncus Inflexus (Hard-rush)	10%	planted into	
LYC FLO	Lychnus flos- cucculi (Ragged Robin)	5%	existing soil margins	
LYT SAL	Lythrum salicaria (Purple Loosestife)	5%	in selected locations TBA	
MEN AQU	Mentha aquatica (Water Mint)	5%	with Ecologist	
MEY TRI	Meyanthes trifoliata (Bogbean)	5%	percentages indicative	
MYO SCO	Myosotis scorpioides (Water Forget-me-not)	10%	TBA with Ecologist	
PHR AUS	Phragmites australis (Common Reed)	5%		
SAG SAG	Sagittaria sagittifolia (Arrowhead)	10%		
VER BEC	Veronica beccabunga (Brooklime)	10%		
Aquatic plants to be sourced from reputable approved supplier. Eg Aqualife in Cheshire.				
NATURALISING SPRING BULB MIX - IN SWATHES TO SELECTED LOCATIONS IN GRASS LAWNS (EG UNDER TREES)				
	Crocus tomasinonus Whitewell Purple (Crocus (Spring flowering)			
	Galanthus nivalis (Native Snowdrop)			
BULB MIX	Iris reticulata (Iris reticulata)			30/m2
	fritillary meleagris (Snakes head fritillary)			
	Narcissus Tete a Tete(Early dwarf Daffodil)			
LOW MAINTENANCE AMENITY GRASS MIX				
To receive 150mm depth approved quality topsoil, cultivated and seeded with Germinal Seeds A4 Low Maintenance Areas Mix (Fescue Rich) at a rate of 35g/m2				
PROPOSED AMENITY GRASS AREAS / LAWNS				
To receive 150mm depth approved quality clean topsoil over decompacted free draining subsoil / base seeded with Germinal Seeds A6 Suprashade mix , at a rate of 40g/m2 inc Basatop Fair OSA pre pre seed fertilizer; or turfed with an approved quality shade tolerant turf- TBA as preferred by client				



LEGEND

HARD SURFACES/ PAVING

1. Asphalt or biltmac to adopted estate access road (to LPA Highway requirements)
2. Biltmac or asphalt to adopted pedestrian access path and driveway crossovers or Tegula blocks if LPA highways allow - colour TBA. Surface choice TBA with LPA Highways
3. Tactile paving and drop kerbs to main highway path junctions with access road
4. Concrete road kerbs to access road.
5. Transition and drop kerbs to private driveway crossovers
6. Resin bonded gravel paving to driveways eg Buff coloured, with a flush soldier course tegula edging trim, in a buff or light brindle colour. If required to be suds paving- to be laid over a porous asphalt base course, and porous MOT - to engineers details
7. Pedestrian front garden paths - paving TBA eg Marshalls or Tobermore Tegula block paving in stretcher course with soldier course edgings. In a buff colour or light brindle to tie in with building vernacular .If required to be Suds - to be Marshalls Tegula Priora or Tobermore Hydropave laid over a porous MOT sub base to engineers details
8. Flag paving to rear residential patios, type TBA eg Marshalls Saxon paving, buff colour with matching textured pin kerb edgings laid flush,
9. Access paths to sides of houses in rear garden eg 900mm wide flag or 1200mm wide (2 x 600mm flags) type and colour to match patios eg Marshalls Saxon
10. Narrow maintenance strips against house elevations where soft landscape beds abut building face (to prevent soil splash back) - eg 150-200mm wide gravel trim with timber or concrete edge or a narrow/ cut flag or pin kerb laid flat
11. Surface finish to Sub station access /parking area TBA eg Reinforced grass or reinforced gravel (re occasional use) eg Ecogrid 100% recycled plastic grid filled with topsoil and grass seeded with a hard wearing grass seed mix, or a gravel infill TBA
12. Special measures required to hard paving within RPA's of existing trees - eg re strip of existing materials and re construction of new pavings - to be as specified by JB consulting
13. Steps between patio and lawn formed with flag paving treads to match patios

LEGEND

VERTICAL ELEMENTS AND BOUNDARY TREATMENTS

- A. Estate Entrance Piers / inc Signage eg Stone faced block work or reconstituted stone with stone copings
- B. Proposed Screen Walls eg Stone faced block work or reconstituted stone, with stone copings
- C. Proposed retaining walls between rear gardens, with vertical feather board screen fence to top -heights of walls & fencing to top TBA dependant upon levels changes -but to achieve a minimum overall height of 1.8m or 2.1m TBA
- D. Proposed 1.8 m ht vertical feather board screen fences to rear gardens. Each fence run to have a 13cm x 13cm hedgehog access hole included to the base.
- E. Proposed 1.8m ht Vertical feather board garden gates to match fences
- F. Proposed 2m ht weldmesh / paladin style fencing eg Vmex V3, Green powder coated - to north boundary with field (in place of existing tall chain link fence)
- G. Proposed 1.8m ht stepped or raked feather board divisional fencing to the wooded steep slopes at ends of gardens If proves feasible re levels, with a 13cm x 13cm gap for hedgehogs; OR 1.2m ht Agricultural style post & rail fence with mesh if gradients prove too steep for feather board
- H. Proposed 2m ht weldmesh / paladin style fencing eg Vmex V3, Green powder coated, - to edges of woodland and brook (allowing visibility to woodland, whilst securing the gardens) Allow for a 13cm x 13cm hedgehog access hole included to the base in each garden.
- J. Screen Fencing, possibly including trellis to top trellising to screen existing sub station -1.8 m ht or 2.1 m ht - type TBA
- K. Potential low retaining walls between front gardens -eg with a 900mm ht Vertical Steel Railing where retaining wall exceeds 600mm ht
- L. Structural retaining walls to north & north west boundary, varying height to approx 4.5m ht, max
- M. Proposed retaining walls approx 900mm-1m ht, to create stepped gardens to ease levels.
- N. Potential low localised retaining walls required to rear gardens eg to edge of patios / or edge of RPA's, to avoid encroaching into RPAs with change of levels or re-grading -type TBA

NOTES

1. This drawing to be read in conjunction with :-
   - LIving Ecosystems LEMP - for further details on the Biodiversity Enhancements to the Existing Woodland Buffer Zone
   - JB Consulting AMS and AIA Reports Rev 12th Oct 2020 , Ref 20-005
   - C&G Architects Site Plan
   - Phase 2 Geo environmental Additional Site Investigation, Risk Assessment and Remediation Strategy Report Ref LKC 201043 May 2020
   - Carley Daines Drainage Strategy
2. This drawing is intended to support the pre start LEMP, and Enhancing Biodiversity LPA Planning Conditions discharge , and also provide a landscape and planting strategy for the development site as a whole. Detailed Planting Proposals/ Planting Plans and specifications will be addressed In more detail in due course in respect to the Landscape Condition. Tree planting locations may be subject to further tweaks eg coardinating tree planting to avoid services etc.

LANDSCAPE STRATEGY & BIODIVERSITY ENHANCEMENTS

PROPOSED RESIDENTIAL DEVELOPMENT, (FORMER TACK LEA WORKS)

BURY & ROCHDALE OLD RD, HEYWOOD BL9 7UA

CLIENT : AINSWORTH PROJECTS LTD

ARCHITECTS : CARTWRIGHT & GROSS

Date : Oct 20 Scale : 1.250 at A0 Drawn : MT Drwg No. 565.02

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