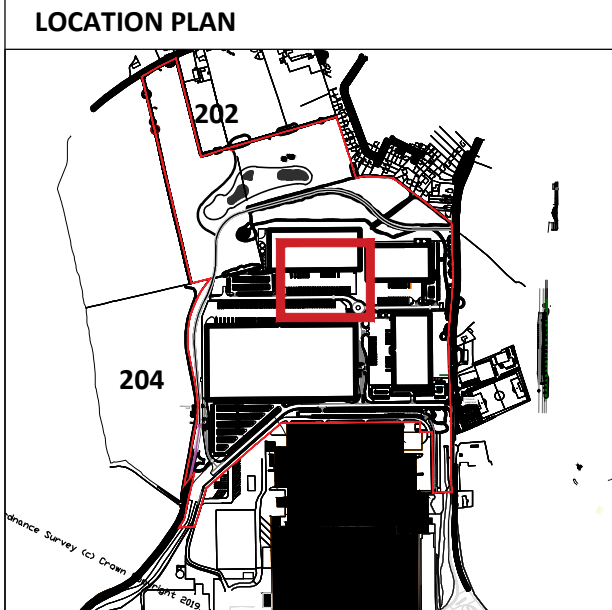
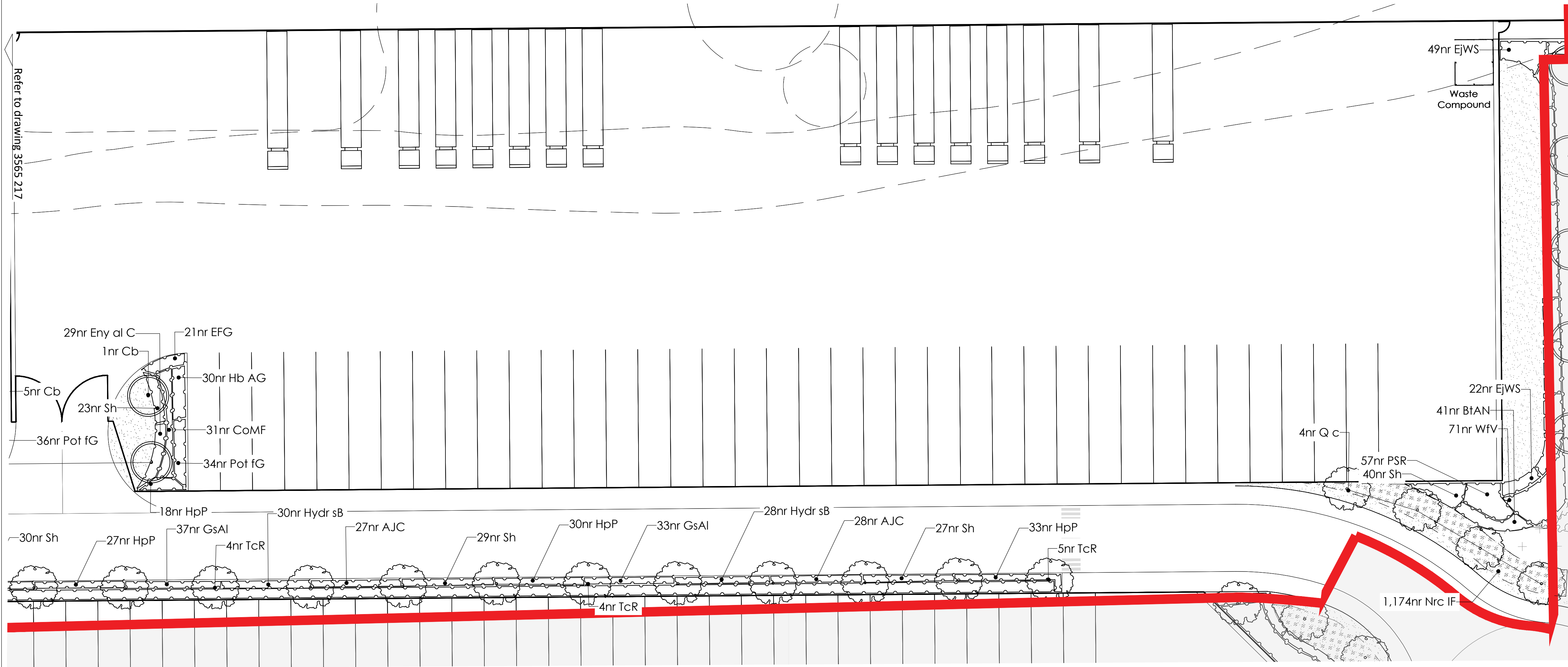




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 - This drawing is to be read in conjunction with all relevant Architects', Engineer's, Specialists, Bills of Quantities and Specifications.
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 - The Contractor is responsible for accurately ascertaining the position of underground services and responding to all relevant service easement requirements.
 - All dimensions are in millimetres unless stated otherwise, for the purposes of construction this drawing must not be scaled and only written dimensions used. Written and scaled dimensions to be checked on site, any discrepancies reported prior to work commencing. IF IN DOUBT PLEASE ASK.
 - All work and materials are to be in accordance with the relevant British Standards and Code of Practice.
 - All Proprietary products are to be used strictly in accordance with the manufacturer's instructions and details.

Planting Schedule (Individual)										
Herbaceous										
Nr	Code	Plant Name	Height/Spread/Grade	Girth	Age	Root	Container	Habit	Form	Density/m2
140	GUAI	Geranium sanguineum 'Album'	20-25cm			C	3L			5.00
117	Hc II	Hieracium 'Ice Faller'	10-15cm					Bulb		16.00
Shrub										
Nr	Code	Plant Name	Height/Spread/Grade	Girth	Age	Root	Container	Habit	Form	Density/m2
143	AJC	Aucuba japonica 'Oxonioides'	30-40cm			C	3L	Bushy		4.00
41	BIAN	Berberis thunbergii 'Atrorubra'	30-40cm			C	3L	Branched		4.00
54	CoMF	Cornus sanguinea 'Mid-Winter Fire'	40-60cm			C	3L	Bushy		3.00
42	CI	Choiya ternata	40-60cm			C	3L	Bushy		3.00
115	EFG	Euonymus fortunei 'Emerald Gaiety'	20-25cm			C	3L	Bushy		4.00
101	EJWS	Euonymus japonicus 'White Spire'	30-40cm		1/1	C	3L			4.00
47	Eny al C	Euonymus alatus 'Compactus'	30-40cm			C	3L	Branched		4.00
140	Hb AG	Hebe 'Autumn Glory'	30-40cm			C	3L			4.00
220	HpP	Hebe pinguifolia 'Pagei'	30-40cm			C	3L	Bushy		4.00
147	Hydr sB	Hydrangea serrata 'Bluebird'	30-40cm			C	3L			4.00
70	Pot IG	Potentilla fruticosa 'Goldfinger'	30-40cm(2)			C	3L	Bushy		4.00
57	PSR	Pyracantha 'Saphyr Red'	40-80cm			C	3L	Leader and lateral		4.00
150	PTGB	Philadelphus tenuifolius 'Golf Ball'	40-60cm			C	3L			4.00
18	Prnt R RR	Potentilla fruticosa 'Red Robin'	30-40cm(2)			C	3L	Bushy		4.00
249	Sh	Sarcococca humilis	30-40cm			C	3L			4.00
745	Sh cB	Sarcococca confusa	20-25cm			C	3L	Bushy		3.00
71	Wfv	Weigela florida 'Variegata'	40-60cm			C	3L	Branched		3.00
Tree										
Nr	Code	Plant Name	Height/Spread/Grade	Girth	Age	Root	Container	Habit	Form	Density/m2
4	Acr cm S	Acer campestre 'Streetwise'	4.5-6.25m	14-16cm	3x	RB		Min. 200cm clear stem	Extra Heavy Standard	
5	Ap S	Acer pseudoplatanus 'Spartan'	4.5-6.25m	14-16cm	3x	RB		Min. 200cm Clear Stem	Extra Heavy Standard	
6	Cb	Carpinus betulus	4.5-6.25m	14-16cm	3x	RB		Min. 200cm Clear Stem	Extra Heavy Standard	
3	Fi	Fagus sylvatica	4.5-6.25m	14-16cm	3x	RB		Min. 200cm Clear Stem	Extra Heavy Standard	
4	PcC	Pyrus calleryana 'Chanticleer'	4.5-6.25m	14-16cm	3x	RB		Min. 200cm clear stem	Extra Heavy Standard	
6	Q c	Quercus coccinea	500-600cm	18-20cm	3x	RB		Min. 200cm clear stem	Advanced Nursery Stock	
6	Q r	Quercus robur	4.5-6.25m	14-16cm	3x	RB		Min. 200cm Clear Stem	Extra Heavy Standard	
5	SdL	Sorbus aria 'Lutescens'	4.5-6.25m	14-16cm	3x	RB		Min. 200cm Clear Stem	Extra Heavy Standard	
25	TcR	Tilia cordata 'Rancha'	500-600cm	18-20cm	3x	RB		Min. 200cm clear stem	Advanced Nursery Stock	

Planting Schedule (Mix)										
Native Shrub/Shrub Mix										
Nr	Code	Plant Name	Mix%	Height/Spread/Grade	Girth	Age	Root	Container	Habit	Density/m2
109	Crg m	Crataegus monogyna	45.00%	40-60cm	10/1	B			Seedling	1.00
36	F aq	Fex aquifolium	15.00%	60-80cm			C	3L	Leader with lateral	1.00
24	Prnt up	Prunus spinosa	10.00%	60-80cm		1/1	B		Branched	1.00
24	Sa c	Saxifraga caryophyllata	10.00%	40-60cm			B			1.00
36	Sa m	Saxifraga media	15.00%	60-80cm		1/1	B		Branched	1.00
TPM Woodland Mix Desired										
Nr	Code	Plant Name	Mix%	Height/Spread/Grade	Girth	Age	Root	Container	Habit	Density/m2
60	Acr cm	Acer campestre	5.00%	40-60cm		1/1	B			2.00
84	Aln gl	Alnus glutinosa	7.00%	60-80cm		1/1	B			2.00
12	Crgm bt	Carpinus betulus	1.00%	200-250cm	8-10cm	2x	RB		Feathered	2.00
120	Crg m	Crataegus monogyna	10.00%	60-80cm		1/1	B		Seedling	2.00
289	Fag sy	Fagus sylvatica	24.00%	60-80cm		1/1	B			2.00
12	Fag sy S	Fagus sylvatica - Standard	1.00%	200-250cm	8-10cm	2x	B		Standard	2.00
96	F aq	Fex aquifolium	8.00%	60-80cm			C	2L		2.00
36	Lrx dc	Larix decidua	3.00%	60-80cm			RB			2.00
60	Prnt sy	Pinus sylvestris	5.00%	60-80cm			C	2L		2.00
108	Prnt up	Prunus spinosa	9.00%	60-80cm		1/1	B		Branched	2.00
241	Q r	Quercus robur	20.00%	60-80cm		1/1	B			2.00
24	Q r m S	Quercus robur - Standard	2.00%	250-300cm	8-10cm	2x	RB		Standard	2.00
12	T c	Tilia cordata	1.00%	250-300cm	8-10cm	2x	B		Standard	2.00
48	Tax bc	Taxus baccata	4.00%	60-80cm			RB			2.00

NOTES ON PLANTING

- Topsoil / Subsoil: Topsoil shall be spread to min 450mm depth over planting beds and 150mm depth over turf areas and graded to fall. Topsoil should be in accordance with BS3882:2015 and where subsoil is required, to be in line with BS8601:2013. It is recommended that samples are tested with Certification and Analysis Reports with a concise analysis. To be provided to the landscape Architect / Client for approval. If the soil doesn't meet the BS standard specialist advice should be received to see if the soil can be improved.
- Herbicide and Cultivation: Topsoil to be treated with an application of herbicide prior to planting, where necessary, strictly in accordance with the Control of Pesticides Regulations 1986 (or otherwise updated / superceded legislation), and following manufacturers instructions and undertaken by qualified staff. The topsoil shall then be cultivated to 150mm depth)
- Container Grown Shrubs, Transplants and Whips: Shrubs and transplants shall comply with the National Plant Specification. Shrubs shall be planted in pits 300 x 300 x 200mm depth, and the backfill shall include 3 litres Peat Free Tree and Shrub Compost. Specimen plants to be planted in a pit 400 x 400 x 250mm depth with 5 litres Tree and Shrub Compost. BR whips should be notch planted as required and healed into position. All whips to be protected by a spiral bound shrub guard secured into place with a timber cane. When in public locations it may be necessary to have caps to the canes. Native Hedgerow planting to be planted in a double staggered row at 400mm centres.
- Herbicide: Spot treat with herbicide throughout the maintenance period in accordance with the manufacturer's instructions.
- Bark Mulch: All Ornamental Planting beds to receive 75mm depth pulverised ornamental bark mulch.
- Position of Plants: Final position of trees and shrubs subject to confirmation of service location and approval of statutory undertakers.
- On excavation of the tree pit a bucket test should be undertaken to review the water infiltration. Certain species of trees will decline if the ground drainage is poor. Monitor the water egress. If water sits for long periods or doesn't drain the pit may require further works to break up the ground. A clean stone drainage layer may assist to ensure that the root ball isn't sat within standing water.

TREES - STANDARDS Tree pits for heavy standards and standards to be 600x600x600mm backfilled with sub soil and 300mm topsoil. Stakes to be 65mm diameter treated softwood driven firmly into the ground. Stakes to be 600mm above ground level and fixed to tree with suitable rubber tree tie.

TREES - EXTRA HEAVY STANDARDS Tree pits for extra heavy standards to be 800x800x800mm backfilled with sub soil and 300mm topsoil. Stakes to be 65mm diameter treated softwood driven firmly into the ground. Stakes to be 600mm above ground level and fixed to tree with suitable rubber tree tie.

TREES - SEMI-MATURE: Tree pit 1200x1200x900mm depth back filled with sub soil and 300mm of good quality topsoil. Stakes to be 2nr 100mm diameter with cross bar, treated softwood driven firmly into the ground. Double stakes to be 1000mm above ground and fixed to tree with suitable rubber tree ties (with the tree in the middle). Trees to be planted with an irrigation pipe (to wrap around the rootball of the tree) and secure the end of the pipe to the tree stake.

- Watering: Plant only into moist soil and water thoroughly to the full depth of soil immediately after planting. Water regularly through the establishment period (minimum 3 months) to prevent dehydration. The trees should be watered through the irrigation pipe to ensure that the water gets down to the rootball. These trees should be watered regularly throughout spring-summer during the first 2 years to ensure that the tree root system establish well.
- Grass Seeding: Sow late summer to mid autumn. Prepare ground by removing any existing vegetation, large stones and roughly levelling. An application of non-residual systemic glyphosate containing weedkiller may be required. Grass seed should be spread at 50g per metre squared After sowing, lightly rake over area and water.
- Turf: Complete ground preparations before turf is delivered to site to avoid turf drying out. Turf should be laid immediately on delivery. Remove all existing vegetation from area to be turfed and spread 150mm depth of top soil. Dig over or rotavate soil before laying turf if soil is compacted. Rake, lightly compact, and water soil. Stagger the joints when laying the turf. Water turf after laying and every day for the next 2-3 days, especially in periods of low rainfall.
- Wildflower Meadow:
 - Timing - Sow meadow during March and April or in September. When sowing into heavy soils, sow in March/April to avoid seeds/seedlings rotting in waterlogged soils.
 - Ground Preparation -
 - Control or remove weeds before sowing. For small areas, remove weeds by hand. For larger areas, a weed suppressing membrane or black plastic can be laid over the area 3 months prior to sowing to prevent weed growth. For larger areas and where vigorous perennial weeds, such as nettles, docks and dandelions, are present in large number, non-chemical control methods may not be effective. In these situations instead spray off existing vegetation using non-residual systemic glyphosate-containing weedkillers. Spray applications may be required more than once dependant on the site and time of year. Eradication of weeds is essential to the success of the establishment of the wildflower meadow.
 - Rotavate soil and rake to make even seed bed
 - Sowing -
 - Wildflower meadow to be sown at 1.5/4 g per m2.
 - Mix wildflower seed with silver sand to aid even seed distribution and to show area that have been covered. Sow half lengthways and half widthways for even coverage.
 - Rake in seeds lightly
 - Do not sow seed if heavy rain is forecast

Soil compaction is likely to have occurred during construction on site. A site inspection should be carried out by a landscape professional to assess the level of soil compaction, including drainage testing to see if the ground is likely to become waterlogged. If the ground is deemed to be too compacted for plant growth and to drain adequately then remediation works should be carried out. This could include rotavation of the soil using a push along rotavator and/or ground being broken up with spades or small machinery. A second site inspection should then take place to ensure that the soil is fit for purpose.

Tree species selected subject to soil conditions and NHBC guidance. Root barriers may be required subject to findings from soil analysis and engineer's details.

LEGEND

- Existing Tree and Hedges to be Retained**
Trees and hedges to be retained and protected in line with BS5837:2012. Please refer to Tree Survey for more information.
- Proposed Avenue Trees**
Advanced Nursery Stock, 18-20cm girth, with 2m clear stem. To be planted with a double timber stakes secured with a rubber tree tie.
- Proposed Semi Ornamental Trees**
Extra Heavy Standard, 14-16cm girth, 4.5-6.25m high to be planted with a double timber stake secured with a rubber tree tie.
- Proposed Native Trees Structural Landscape Areas**
Extra Heavy Standard, 14-16cm girth, 4.5-6.25m high to be planted with a double timber stake secured with a rubber tree tie.
- Ornamental Shrub Planting**
Proposed shrubs and flowering herbaceous plants to be planted as 5-10L pots at 3-5 per sq.m. planted with feature specimen, 10-12L pots.
- Proposed Grass - POS**
Grass within POS to be seeded with hard wearing grass mix.

ECOLOGICAL ENHANCEMENT / HABITAT CREATION

- Proposed Species Rich Native Hedgerow**
Proposed native hedge to be 100-125cm height planted in a double staggered row at 450mm apart. Proposed in locations that continue to provide linear habitat connections across the site. To have minimum 5 species.
- Proposed Native Woodland Planting Mix**
Proposed native woodland mix to be predominantly British deciduous natives. Mix to provide general deciduous woodland habitat. To be whip planting. 60-80cm height with standards, planted at 2 plants per sq.m. Selected standard trees to be planted with a single timber stake and secured with a rubber tree tie, whips to be protected by tubex or spiral guards
- Proposed Native Scrub/Shrub Plant Mix**
Proposed native shrub mix to have minimum final growth height of 7M. Mix to provide breeding and foraging opportunities. To be whip planting, 60-80cm height, planted at 1 plants per sq.m.
- Proposed Marginal Planting**
To be species tolerant of wet soils at the waters edge, planted in 0.5L pots at a height of 8-10cm
- Proposed Bulb Planting**
To provide seasonal interest, planted at 16/square metre
- Proposed Flowering Meadow Mix**
To be Emorsgate EM2 General Purpose Meadow Mix Sowing rate 5/gm2.
- Proposed Wildflower for Hedgerows**
Seeded with Emorsgate EH1F Wildflowers for Hedgerows. Mix contains wild flowers that are tolerant of semi-shade and is suitable for sowing beneath newly planted or established hedges and on woodland edges. 100% wild flower mixtures are best sown into existing grass or combined with a suitable grass seed mix.
- Proposed Meadow Grass Mixture for Wet Soils**
For soils that are permanently wet, or seasonally under water, and situations at the edge of streams and ditches. EM8F - Meadow Mixture for Wetlands as supplied by Emorsgate or similar approved.
- Retained Existing Ponds**
Ponds retained as a part of the development - on-site ponds P3, P9, P10, P11. Existing ponds to be restored if required by ecologist.

REVISION NOTES

Rev	By	Description	Date

Client
Gulf Ventures 2
Project
Griffen Park

Description
Unit 3 Planting Plan (Sheet 3 of 3)

Status
For Approval

Scale @ A1 1:250	Drawn TS	Checked CT	Date 19.01.23
Job number 3565	Drawing number 218	Revision -	

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