



PLANT SCHEDULE

September 2020

**RESERVED MATTERS PLANNING APPLICATION FOR A
PROPOSED RESIDENTIAL DEVELOPMENT OF UP TO 6
DWELLINGS**

AT

12 MARKET PLACE, DONINGTON, SPALDING, LINCOLNSHIRE

by Framework Architecture and Urban Design Ltd

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The specification below assumes planting is to take place during October-March. If bare-root stock is to be planted outside this period, or if alternative container grown stock is to be used, approval by the Supervising Officer shall be sought. (Tree container size is specified in brackets). If planting out of season additional watering is to be provided by the Contractor.

Planting operations shall be carried out in general accordance with the requirements of Sections 7, 8 and 9 of B.S. 4428: 1989 'Recommendations for General Landscape Operations (Excluding Hard Surfaces)'.

All plants shall be adequately and carefully packed and protected to survive transport to site, by whatever means, without damage in loading, transit or unloading. In spite of these precautions, roots, branches or shoots suffer slight damage, they shall be carefully pruned. If major damage has occurred, the plant shall be rejected and replaced.

All plants are to be of the species and variety specified within the Schedule. If, however, any plants are unobtainable at the time of ordering, the Contractor is to inform the Supervising Officer immediately and submit a list of alternatives for consideration.

Heeling in: After delivery, if planting is not carried out immediately, root-balled plants shall be covered with sand or fine soil and watered to prevent drying out. Bare-root plants shall be heeled-in by placing the roots in a prepared trench and covering them with fine soil and watered in to avoid air pockets around the roots.

Tree pits and holes for shrubs shall be large enough to receive the roots of the plant fully extended and well spread out. Topsoil shall be carefully worked among the roots during backfilling. Plants are to be well firmed by heeling and the surface left neat and even. Care must be taken not to disturb root-balls and not let roots dry out at any time.

Watering: Trees and shrubs shall be well watered immediately after planting. The full topsoil is to be wetted to soil field capacity without displacing seeds, plants or soil.

On no account must planting take place during frosty conditions or during a freezing wind. Exposed root-balls shall be wrapped in hessian if there is any danger of frost. The bottom and sides of tree pits, and piles of topsoil, must be protected from freezing by the use of boards, tarpaulins or other approved materials.



PLANT SCHEDULE:**RESERVED MATTERS PLANNING APPLICATION FOR A PROPOSED RESIDENTIAL DEVELOPMENT OF UP TO 6 DWELLINGS AT 12 MARKET PLACE, DONINGTON, SPALDING, LINCOLNSHIRE****TREES****Total: 41No**

All trees are to be supplied with a clear stem to 1.8m min. All tree stock must comply in all respects with the current edition of B.S.3936. Trees shall be well grown nursery stock free from disease, true to type and of a size scheduled in accordance with the approved method of measurement.

(A'E')	Acer campestre 'Elegant'	
	Extra heavy (ANS) 18-20cm girth, 425-600cm high, (65L)	2No
(Ap)	Acer platanoides 'Autumn Blaze'	
	Extra heavy (ANS) 18-20cm girth, 425-600cm high, (65L)	2No
(Cm)	Cornus mas	
	Selected standard 10-12cm girth, 300-360cm high, (45L)	4No
(E'R')	Euonymus europaeus 'Red Cascade'	
	Selected standard 10-12cm girth, 300-360cm high, (45L)	5No
(Mk)	Magnolia kobus	
	Heavy standard tree 12-14cm girth, 360-425cm high, (45/65L)	2No
(M'L')	Magnolia x loebnerii 'Leonard Messell'	
	Standard tree 8-10cm girth, 250-300cm high, (25L)	3No
(P'P')	Prunus 'Pandora'	
	Selected standard, 10-12cm girth, 300-360cm high, (45L)	3No
(P'A')	Prunus subhirtella 'Autumnalis'	
	Heavy standard (ANS) 12-14cm girth, 360-425cm high (45L)	3No
(P'C')	Pyrus calleryana 'Chanticleer'	
	Extra heavy standard (ANS) 18-20 girth, 425-600cm high, (65L)	6No
(P'U')	Prunus 'Uminenko'	
	Selected standard 10-12cm girth, 300-360cm high, (45L)	1No
(Pxy)	Prunus x yedoensis	
	Selected standard tree 10-12cm girth, 300-360cm high, (45L)	3No
(Qr)	Quercus robur 'Fastigiata'	
	Extra heavy standard (ANS) 18-20cm girth, 425-600cm high (65L)	1No
(S'E')	Sorbus commixta 'Embley'	
	Heavy standard (ANS) 12-14cm girth, 360-425cm high (45L)	4No
(S'F')	Sorbus thuringiaca 'Fastigiata'	
	Heavy standard (ANS) 12-14cm girth, 360-425cm high (45L)	1No

Trees are to be planted in well-prepared pits, back-filled with good quality topsoil, (imported as necessary), mixed with compost and slow-release fertiliser. All trees are to be planted so that the top of the nursery mark is level with the final soil level. All advanced Nursery Stock (ANS) trees are to be planted with perforated coil pipe irrigation around root-ball.

Trees are to be appropriately supported by tanalised softwood stakes and adjustable rubber straps. Extra heavy ANS trees species are to be supported by means of below-ground anchoring. All other ANS and selected standard trees are to be supported with 2No stakes and cross bars.



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Standard trees are to be supported by means of single, angled stake. All stakes are to be positioned on side of prevailing wind.

Soil is to be back-filled in 150mm compacted layers and fit clear, 90cm high spiral rabbit guards around trunks. (See end of document for illustrations of tree planting and means of support).

BLOCK SHRUB MIX 1 (B1)**Total: 379No**

Berberis linearifolia 'Orange King'	3L	300-450mm	10%	48No
Choisya ternata	3L	300-450mm	10%	48No
Cotoneaster divaricatus	3L	300-450mm	10%	48No
Escallonia 'Langleyensis'	5L	450-600mm	5%	11No
Hypericum 'Hidcote'	3L	300-450mm	15%	71No
Pyracantha 'Golden Dome'	3L	300-450mm	10%	48No
Rosa rugosa 'Hansa'	Bare root or cg.		10%	13No
Rosa 'Penelope'	Bare root or cg.		10%	13No
Viburnum opulus 'Compactum'	3L	300-450mm	10%	48No
Viburnum tinus 'Eve Price'	5L	450-600mm	10%	31No

Hypericum and Viburnum o. 'Compactum' species are to be planted to the front of borders. Groups of 3, 5 or 7No of same species are to be planted together and spaced approx. 600mm apart, (2.75No per square metre).

BLOCK SHRUB MIX 2 (B2)**Total: 297No**

Aucuba japonica 'Rozzanie'	3L	300-450mm	10%	27No
Berberis atropurpurea 'Nana'	3L	300-450mm	20%	54No
Cotoneaster 'Coral Beauty'	3L	300-450mm	10%	27No
Cytisus x praecox	3L	300-450mm	10%	27No
Hebe rakaiensis	2L	250-300mm	10%	54No
Mahonia aquifolium	3L	300-450mm	10%	27No
Potentilla 'Elizabeth'	3L	300-450mm	10%	27No
Potentilla 'Red Ace'	3L	300-450mm	10%	27No
Rosa 'White Pet'	Bare root or cg.		10%	27No

Groups of at least 3, 5 or 7No of the same species are to be planted together and spaced approx. 600mm apart (2.75No per square metre). Aucuba, Berberis and Rosa species are to be planted towards front of border. Cytisus x praecox and Potentilla 'Elizabeth' are to be planted in the sunniest beds and parts of borders, and Aucuba and Mahonia species in beds with future shade beneath trees.



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Berberis thunbergii atropurpurea 'Nana'	3L	300-450mm	15%	29No
Epimedium x perralchicum 'Frohnleiten'	1L	Strong plant	15%	29No
Euonymus fortunei 'Emerald Gaiety'	3L	300-450mm	15%	29No
Euonymus fortunei 'Emerald n' Gold'	3L	300-450mm	15%	29No
Hypericum calycinum	3L	300-450mm	15%	29No
Potentilla 'Red Ace'	3L	300-450mm	15%	29No
Sarcococca humilis	3L	300-450mm	10%	19No

Groups of 3, 5 or 7No of the same species are to be planted together, spaced approximately 450mm apart, (5No per sq. m.), and arranged in beds so foliage and flower colour compliment each other, with Epimedium sp. to front of beds.

NATIVE HEDGE SPECIES: MIX H1**Total: 215No**

Buxus sempervirens	3L or root-balled	300-450mm	30%	127No
Fagus sylvatica	Transplant 1+2	80-100cm	60%	44No
Ilex aquifolium	3L	300-450mm	10%	44No

Species are to be randomly mixed and planted 300mm apart in double staggered row, (7No per linear metre).

NATIVE HEDGE SPECIES: MIX H2**Total: 84No**

Acer campestre	Transplant 1+1	60-80cm	5%	5No
Corylus avellana	Transplant 1+1	60-80cm	10%	8No
Crataegus monogyna	Transplant 1+1	60-80cm	55%	39No
Euonymus europaeus	Transplant 1+1	60-80cm	10%	8No
Ilex aquifolium	5L	30-45cm	5%	11No
Prunus spinosa	Transplant 1+1	60-80cm	5%	5No
Viburnum opulus	Transplant 1+1	60-80cm	10%	8No

Species are to be randomly mixed and planted 300mm apart, (7No per linear m.) in a double, staggered row, with appropriate 60cm high hedge or shrub tubes and supporting canes. Note: The parallel rows of hedging are to be spaced 300mm apart.

NATIVE HEDGE SPECIES: MIX H3**Total: 105No**

Buxus sempervirens	Root-balled or 3L	300-450mm	50%	114No
Fagus sylvatica	Transplant 1+2	80-100cm	50%	21No

Species are to be randomly mixed and planted 300mm apart in a double, staggered row, (7No per linear metre).

NON-MIXED HEDGE SPECIES**Total: 476No**

Bs	Buxus sempervirens	3L or root-balled	300-450mm	406No
Cs	Cotoneaster simonsii	3L or root-balled	450-600mm	70No

Plant Buxus in a double staggered row, 300mm apart, (7No per linear metre).

Plant Cotoneaster and Taxus in a single row, 300mm apart.



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Beds to all shrub areas, single-species hedgerows and hedgerow mixes Fs and H are to be well prepared prior to planting with compost and slow-release fertiliser incorporated into soil. All weeds are to be removed from beds, allowing sufficient time to elapse for total herbicide to take effect. All debris, rubble and large stones are to be removed from beds during cultivation and soil levels adjusted as necessary to be level with adjacent paved surfaces. Ensure there is a minimum of 450-500mm topsoil and allow for importation of good quality topsoil free of weeds and rubble as necessary.

All shrubs and hedge plants are to be set out prior to planting to ensure spacing is correct. All plants are to be heeled in well and planted so that the top of the nursery mark is level with the final soil level. Upon completion all beds and hedgerows are to be watered, (if dry conditions prevail), to soil field capacity before spreading 75mm depth medium grade disease-free bark mulch. Note: The parallel rows of hedging are to be spaced 300mm apart.

Total shrub bed area, including hedges:

Approx. 222 square metres

All weeds are to be removed from planting areas, allowing sufficient time to elapse for total herbicide to take effect. The ground will be cultivated to a depth of 150mm before planting work commences, to ensure that any ground compaction is broken up and weed competition removed.

All transplants are to be planted so the nursery mark is level with the final soil level. Transplants shall be protected by 60cm high x 3cm sq. guards, with an appropriate bamboo cane support. Note: The parallel rows of hedging are to be spaced 300mm apart.

BULBS (within wild-flower mix)	Total:	227No
Fritillaria meleagris	75%	170No
Narcissus pseudonarcissus lobularis	25%	57No

Bulbs shall be randomly mixed and scatter-planted to correct depths in grass / wild-flower areas, approximately 3No per sq. m.

GRASS SEED, WILD-FLOWER / GRASS MIXES**GRASS SEED**

The grass seed mix for the close-mown verges to sides of footpaths and roads, service margins, shall be Germinal Seeds GB Grade A19 Mix or similar and approved, consisting of:

25%	Lorina	Perennial Ryegrass
20%	Jasper	Strong Creeping Red Fescue
30%	Pintor	Hard Fescue
10%	Reubens	Flattened Meadow Grass
10%	Highland	Browntop Bent
5%	Aberherald	White Clover

(The Contractor shall liaise with the Client regarding requirements for either grass seed or turf to be sown or laid to front and side gardens. If turf is used it shall be of good quality and laid to the highest standards following the same preparation as for seed, though topsoil shall be retained).



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The wildflower and grass seed mix to the open space areas shall be Germinal Seeds Ltd RE4 Regional UK Native Special Mix, and approved, native seeds of local provenance, consisting of:

0.5%	<i>Achillea millefolium</i>	(Yarrow)
0.5%	<i>Anthylis vulneria</i>	(Kidney Vetch)
0.5%	<i>Briza media</i>	(Quaking Oat Grass)
0.5%	<i>Centaurea nigra</i>	(Common Knapweed)
0.5%	<i>Daucis carota</i>	(Wild Carrot)
1%	<i>Filipendula vulgaris</i>	(Dropwort)
1%	<i>Gallium verum</i>	(Lady's Bestraw)
1%	<i>Leontodon hispidus</i>	(Rough Hawkbit)
0.5%	<i>Leucanthemum vulgare</i>	(Ox eye Daisy)
1.0%	<i>Lotus corniculatus</i>	(Bird's foot Trefoil)
0.5%	<i>Rhinanthus minor</i>	(Yellow Rattle)
1.5%	<i>Onobrychis vicifolia</i>	(Sainfoin)
1.0%	<i>Plantago lanceolata</i>	(Ribwort Plantain)
1.0%	<i>Plantago media</i>	(Hoary Plantain)
1.5%	<i>Prunella vulgaris</i>	(Self Heal)
1.5%	<i>Sanguisorba minor</i>	(Salad Burnet)
1.0%	<i>Scabiosa columbaria</i>	(Snail Scabious)
0.5%	<i>Succisa pratensis</i>	(Devil's Bit Scabious)
0.5%	<i>Clematis vitalba</i>	(Wild Clematis)
0.5%	<i>Digitalis purpurea</i>	(Foxglove)
0.5%	<i>Origanum vulgare</i>	(Marjoram)
0.5%	<i>Oenothera biennis</i>	(Evening Primrose)
1%	<i>Primula veris</i>	(Cowslip)
1%	<i>Silene dioica</i>	(Red Campion)
0.5%	<i>Trifolium pratense</i>	(Red clover)
5%	<i>Agrostis castellana</i>	(Common Bent)
5%	<i>Agrostis stolonifera</i>	(Creeping Bent)
5%	<i>Anthoxanthum odoratum</i>	(Sweet Vernal Grass)
5%	<i>Arrhenatherum elatius</i>	(Tall Oat Grass)
5%	<i>Cynosurus cristatus</i>	(Crested Dogstail)
10%	<i>Dactylis glomerata</i>	(Cocksfoot)
5%	<i>Deschampsia caespitosa</i>	(Tufted Hair Grass)
25%	<i>Festuca ovina</i>	(Sheep's Fescue)
5%	<i>Festuca rubra</i> ssp. <i>litoralis</i>	(Slender Creeping Red Fescue)
5%	<i>Poa pratensis</i>	(Smooth Stalked Meadow Grass)
5%	<i>Trisetum flavescens</i>	(Yellow Oat Grass)

Germinal Seeds GB Tel: (01522) 868714



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Soil Preparation

Topsoil to wildflower / grass mix areas is to ideally be removed to reduce fertility. Topsoil to close-mown verges adjacent footpaths shall be retained and the levels to evenly graded. Prior to seed-bed cultivation, docks, thistles, nettles and pernicious weeds shall be removed with Glyphosate herbicide spray, (following manufacturer's instructions).

After weeds have been cleared all areas shall be cultivated to a depth of 10mm to create a fine surface tilth and stones and debris greater than 50mm diameter shall be removed. Cultivation shall be by hand within 3m of any existing trees. Final grading of topsoil shall be carried out to remove all minor hollows and ridges, and to provide gentle, even falls for drainage to avoid ponding hollows. Finished levels shall be 10mm above adjoining paving or kerbs. Seed shall be mixed thoroughly and regularly to ensure even species distribution. Wild-flower / grass seed mix shall be bulked up using 4 parts silica sand to one part seed by weight.

Sowing

Do not seed when persistent cold or drying winds are likely to occur or when the soil is frost-bound, waterlogged or excessively dry. The sowing rate for grass areas to path verges shall be 35g / sq m.; the rate for wildflower / grass mix areas shall be 3-5g / sq m. sown in 2No equal sowings in transverse directions. The seed mix shall be raked or harrowed into the soil to a depth of 0.5cm. A roller shall be used to firm the seed-bed.

Wildflower and grass mix cutting during establishment

Cut the sward to 5cm every 8 weeks during the first year. Remove all cuttings from site. First cut to take place March / April following an autumn sowing or May following a spring sowing. Last cut to be September / October.

Following first year establishment cut at end of flowering period in September / October and remove all cuttings from site. Remove weeds by spot treatment with selective herbicide such as 'Roundup'.

DEFECTS LIABILITY PERIOD

During the first 12 months following Practical Completion the Contractor shall replace, at his own expense, all trees, planting and areas of seeding which fail to make active growth, other than areas affected by vandalism. Heavy standard ANS trees are to be guaranteed for a total period of 24 months.

The Contractor will also be responsible for a programme of maintenance, including watering, for the communal / amenity planting areas during the first 24 months, to ensure successful establishment.

ONGOING REPLACEMENT

During and beyond the Defects Liability Period, for a period of up to five years from Practical Completion, any trees, planting or seeded areas that fail are to be replaced. The replacement species shall be as per this original Plant Schedule or of an equivalent approved variety.

During the five-year period all planted areas are to be kept weed free and watered to ensure plant establishment and survival. Watering shall be increased during prolonged periods of dry weather. Should regional watering restrictions be imposed during periods of drought, alternative and approved second-class sources of water shall be obtained and applied by means of a bowser.

