Latin Name	Category	Scheduled Size	Quantity	Comments
Acer campestre 'Elsrijk'	Trees	14-16cm Girth; 4-4.5m Height	1	Extra Heavy Standard. Double Staked. 1.8m Clear Stem
Amelanchier lamarkii	Trees	2.5-3m Height: CG or RB	7	Multi-Stem; 5 breaks minimum
Betula pendula	Trees	14-16cm Girth; 4-4.5m Height	3	Extra Heavy Standard. Double Staked. 1.8m Clear Stem
Carpinus betulus 'Frans Fontaine'	Trees	14-16cm Girth; 4-4.5m Height	4	Extra Heavy Standard. Double Staked. 1.8m Clear Stem
Crateagus x persimilis 'Splendens'	Trees	14-16cm Girth; 4-4.5m Height	2	Extra Heavy Standard. Double Staked. 1.8m Clear Stem
Hippophae salicifolia 'Streetwise'	Trees	14-16cm Girth; 4-4.5m Height	4	Extra Heavy Standard. Double Staked
Pinus nigra	Trees	16-18cm Girth; 4-4.5m Height	3	Wire rootballed stock. 1.8m clear stem
Tamarix tetrandra	Trees	14-16cm Girth; 4-4.5m Height	3	Extra Heavy Standard. Double Staked. 1.8m Clear Stem
Ballota pseudodictamnus	Shrubs	3L; 30-40cm	97	
Ceanothus 'Blue Mound'	Shrubs	3L; 30-40cm	17	
Cistus purpureus	Shrubs	3L; 30-40cm	17	
Cistux x argenteus 'Silver Pink'	Shrubs	3L; 30-40cm	17	
Fatsia japonica	Shrubs	5L; 40-60cm	7	
Hebe 'Kirkii'	Shrubs	3L; 30-40cm	132	
Hebe 'Wiri Dawn'	Shrubs	3L; 30-40cm	32	
Hebe x franciscana 'Blue Gem'	Shrubs	3L; 30-40cm	26	
Helichrysum italicum	Shrubs	3L; 30-40cm	97	
Lavandula angustifolia 'Hidcote'	Shrubs	3L; 30-40cm	17	
Phormium 'Platts Black'	Shrubs	10L; 60-80cm	5	
Rosa rugosa	Shrubs	3L; 30-40cm	27	
Rosmarinus 'Miss Jessops Upright'	Shrubs	3L; 30-40cm	10	
Acanthus mollis	Perennials	2L	16	Full Pot; Fully Rooted; Healthy.
Anemone x hybrida 'Honorine Jobert'	Perennials	2L	67	Full Pot; Fully Rooted; Healthy.
Armeria maritima	Perennials	2L	152	Full Pot; Fully Rooted; Healthy.
Echinops bannaticus 'Taplow Bue'	Perennials	2L	29	Full Pot; Fully Rooted; Healthy.
Erigeron glaucus 'Sea Breeze'	Perennials	2L	179	Full Pot; Fully Rooted; Healthy.
Euphorbia characias wulfenii	Perennials	5L	7	Full Pot; Fully Rooted; Healthy.
Geranium × johnsonii 'Johnson's Blue'	Perennials	2L	45	Full Pot; Fully Rooted; Healthy.
Geranium macrorrhizum 'Czakor'	Perennials	2L	170	Full Pot; Fully Rooted; Healthy.
Lamium orvala	Perennials	2L	45	Full Pot; Fully Rooted; Healthy.
Nepeta 'Six Hills Giant'	Perennials	2L	16	Full Pot; Fully Rooted; Healthy.
Perovskia 'Blue Spire'	Perennials	2L	53	Full Pot; Fully Rooted; Healthy.
Verbena bonariensis	Perennials	2L	56	Full Pot; Fully Rooted; Healthy.
Carpinus betulus	Hedgerows	BR or CG; 100-120cm height	67	Planted in double staggered rows with .4m centres
Griselinia littoralis	Hedgerows	10L; 100-120cm height	12	Planted in single rows with .45m centres
Pittosporum tobira	Hedgerows	7.5L; 10-120cm height	21	Planted in single rows with .4m centres
Anemanthele lessioniana	Grasses	2L	26	Full pot; Fully Rooted; Healthy.
Astelia chathamica 'Silver Spear'	Grasses	3L	26	Full pot; Fully Rooted; Healthy.
Calamagrostis 'Karl Foerster'	Grasses	2L	55	Full pot; Fully Rooted; Healthy.
Carex divulsa	Grasses	2L	120	Full pot; Fully Rooted; Healthy.
Miscanthus sinensis 'Morning Light'	Grasses	2L	19	Full pot; Fully Rooted; Healthy.
Nassella tenuissima	Grasses	2L	94	Full pot; Fully Rooted; Healthy.
Pennisetum alopecuroides	Grasses	2L	26	Full pot; Fully Rooted; Healthy.
Sesleria caerulea	Grasses	2L	97	Full pot; Fully Rooted; Healthy.
Dryopteris erythrosora	Ferns	2L	67	Full Pot; Fully Rooted; Healthy.

Tree Statement:

The proposed trees have been selected for both aethectic and practical value. The Hippophae salicifolia 'Streetwise and Tamarix standard trees are located to the south elevation where wind is likely to be the strongest as these species are god coastal trees. They both have a light and airy foliage that pairs well with the underplanting with tamrix tetrandra being a valuable source of nectar for pollinators during its blooming period (pink blooms).

Canopy spread is also a consideration to both the southern and northern elvations where trees are located close to buildings. Both The Carpinus 'Frans Fontaine' and the Hippopahe salicifolia streetwise have an upright habit and tight canopy spread in order to minimise maintenance concerns in the future.

Within the site Crategus persimilis 'Splendens is, planted in two planters. These trees have excelent year round interest with spring flowering, Summer foliage, bright orange autumn colour and fruiting. Similarly the Amalanchier lamarkii provides all of the above, while introducing a different form of tree into the scheme being multi-stem.

Where more space allows to the eastern elevation Betula pendula and Pinus nigra have been proposed to intriduce more structure into the scheme. The white bark of the birch pais well with the fine evergreen texture of the pine trees, with birth and pine being found together in nature. Theese trees can grow larger which will help to soften the height of the built mass.

TREES IN PLANTERS

Due to additional requirements for stormwater sorage tanks and underground services, the majority of trees are to be poposed in planters both in aluminium and timber. Softwood sleepers will be used to the frontages to provide a coastal feel with the aluminium planters providing a more contemporary finish.

The planters will include a pemeable root barrier to the base to improve drainage and protect MEP elements below.

Trees in planters will have to be watered more frequently due to the reduction in avalable ground water.

Tree Growth:

The below represents the predicted height and spread of the selected trees in ideal conditions. For tees in planters and in some urban conditions the lower end of the figures should be expected. Trees may also be formatively pruned as required

	Height	Canopy	Time to ultimate height
Acer campestre 'Elsrijk'	8-12m	4-8m	10-20 years
Amalenachier lamarkii	8-12	4-8m	10-20 years
Betula pendula	12m+	8m+	20-50 years
Carpinus betulus 'Frans Fontaine'	8-12m	2.5-4m	10-20 years
Crateagus x persimilis 'Splendens'	4-8m	4-8m	10-20 years
Hippophae salicifolia 'Streetwise'	8-12m	2.5-4m	10-20 years
Pinus nigra	12m+	8m+	20-50 years
Tamrix tetrandra	2.5-4m	2.5-4m	

Biodiversity Enhancements:

The plant species slected for the site includes a diverse mix of trees, shrubs, grasses and herbaceous perennials. Many of the species can be found withing the RHS 'Perfect For pollinators' List.

Tree species selected are those with a known benefit to wildife, and with qualities suited for their location.

170m2 of Wilflower Meadow has been proposed, with a diverse species mix (see right for species list) to enhance biodiversity on site.

Planting Specification:

TOPSOIL AND SUBSOIL
300mm of topsoil (to be within BS 3882:2015 specification for topsoil for trees and shrubs) shall be provided, with suitable (loosened) subsoil to provide the minimum of the remaining rooting depth. If suitable subsoil is not available to provide the remaining rooting depth then Subsoil to BS8601:2013 may be imported. Normal rooting depths are 450mm for grass, 600mm for shrubs and 900mm for trees, comprising both subsoil and topsoil.

All topsoil and subsoil should be compacted in layers and fully suturated before being allowed to settle for a minimum of 1 week and topped up as necessary.

Topsoil to be spread to a depth 25mm above adjacent surfaces, with a settled depth 25mm below hard surfaces including mulching depth. Subsoil to be graded In accordance with BS 8601.

PLANT SPACING
All plants will be spaced as per the planting plan and schedule to create the correct coverage in the desired area. Once planting has been completed, a 50mm layer of bark should be used to mulch the beds, increasing water retention and to naturally assist in repressing weed growth. All compost, bark mulch and soil conditioner to be peat-free. A minimum of 25% of all vegetation to be planted must have been reared in peat free compost, and ideally sourced from local suppliers.

PLANTING TIMES

Deciduous Trees and Shrubs:	Late October to late March.
Conifers and Evergreens:	September/ October or April/ May.
Herbaceous Perennials :	September/ October or March/ April.
Dried Bulbs and Tubers:	September/ October
Note:	Container grown plants may be planted at any time if ground and weather conditions are favourable. If in doubt, contact Landscape Architect.

TREE PITS
Tree pits are to be prepared to a minimum of 700mm cubed or 100mm wider than the rootball in areas of soft landscape. The base of the tree pit should be broken up to 150mm depth. If the ground is found to have drainage issues, a 100mm layer of clean angluar gravel is to be installed to the base of the tree pits, to be assesssed on site.

All trees specified as Extra Heavy Standard or larger to be double staked using 2no. 100mm wide softwood, peeled chestnut, larch or oak, straight, free from projections and large or edge knots and with pointed lower end. Stakes positioned either side of tree position and perpendicular to wind direction and driven a minimum of 300mm into the base of the tree pit and cut off 600mm above ground. A 100 mm x 25 mm timber crossbar will be firmly fixed using nails on windward side of tree and as close as possible to the stem without making contact with the bark. Cross bar positioned horizontally and 25 mm from top of stakes. Adjustable tree ties to be used to secure the tree firmly but not rigidly to the cross bar. Prevent tree from touching cross bar using spacer blocks or cushions.

TREES STAKING IN PLANTERS
All trees in planters to be scured in place using a Platipus rootball fixing system, including Plati-Mat or equal and approved.

Water access to the roots will be provided by a single irrigation/aeration pipe with a closeable cap, such as the 'Mona Relief Grande' tree irrigation system by GreenTech or equal and approved. For tree pits iadjacent to hard surfaces the edges should be lined with an impermeable ribbed liner products such as 'Re-root' to divert roots away from and sufficiently below paved surfaces.

GRASS AREAS
The remaining areas, not shown as hard landscaping or planting beds are to be laid to lawn by sowing seed over a prepared bed or by turfing. In either case all areas are to be prepared by rotivating to aerate the soil with a final topsoil dressing, before seed is applied.

All turfing and seed areas should be prepared with a minimum bed depth of 150mm quality topsoil.

WILDFLOWER TURF
Wildflower turf to be laid over 250mm depth subsoil to BS:3882, or existing subsoil scrapped of vegetation and lightly broken up to a depth of 150mm.

For fire vehicle acces Shade Tollerant Wildflower Turf to be laid over Bodpave 85 stabilisation paver. 60kn single axle load. 400Tn/SQM. To be filled with subsoil to BS:3882. Sub base to engineers specification.

WATERING

As necessary to ensure establishment and continued thriving of planting and grass areas.

Work Shedule:

To prevent any accidental damage, soft landscaping and planting works (unless otherwise stated) should be undertaken after the completion of main construction works and after the majority of contractors have left site. All planting, seeding and turfing in the approved landscape plan should be carried out during the first planting and seeding season following the occupation of buildings, or completion of the development, whichever is sooner.

Any trees or plants which within a period of 5 years from the completion of the development die, are removed, or become seriously damaged or diseased, shall be replaced during the next planting season with equivalent size and species, unless the LPA gives written consent to any variation.

Temporary protection of planting after installation:
All retained trees to be protected to BS 5837:2012. See Tree Retention and Protection Plan by arboriculturalist'.

Areas of turf and Wildflower turf areas to be protected with mesh fencing to until the end of the rectification period and moved temporarily for maintenance. This includes planting beds adjacent to Brighton Road and Eastern Avenue.

Wildfower turf to contain the following species:

Wildflowers

Autumn Hawkbit	Scorzoneroides autumnalis
Betony	Betonica officinalis
Bird's-foot trefoil	Lotus corniculatus
Bladder Campion	Silene vulgaris
Cat's-ear	Hypochaeris radicata
Common Knapweed	Centaurea nigra
Common Sorrel	Rumex acetosa
*Common Spotted Orchid	Dactylorhiza fuchsii
Common Toadflax	Linaria vulgaris
Common Vetch	Vicia sativa ssp. segetalis
Cowslip	Primula veris
Field Scabious	Knautia arvensis
Lady's Bedstraw	Galium verum
Meadow Buttercup	Ranunculus acris
Meadow Cranesbill	Geranium pratense
Meadowsweet	Filipendula ulmaria
Musk Mallow	Malva moschata
Oxeye Daisy	Leucanthemum vulgare
Perforate St John's Wort	Hypericum perforatum
Ragged Robin	Silene flos-cuculi
Red Campion	Silene dioica
Ribwort Plantain	Plantago lanceolata
Rough Hawkbit	Leontodon hispidus
Salad Burnet	Poterium sanguisorba
Selheal	Prunella vulgaris
Tufted Vetch	Vicia cracca
White Campion	Silene latifolia
White Clover	Trifolium repens
Wild Carrot	Daucus carota
Wild Marjoram	Origanum vulgare
Wild Red Clover	Trifolium pratense
Yarrow	Achillea millefolium
Yellow Rattle	Rhinanthus minor

Grasses

Crested Dog's-tail	Cynosurus cristatus
Sheep's Fescue	Festuca ovina
Slender Creeping Red Fescue	Festuca rubra ssp. littoralis

Eco Rich Clover Turf

10% Trifolium repens
Trifolium pratense
Perennial Rye Grass,
Slender Creeping Red Fescue
Smooth Stalked Meadow Grass,
Strong Creeping Red Fescue
Chewings fescue

NOTES:
To be read with
- GHD3523-200-09 Planting Plan

- For Hard Landscaping Details see Engineers drawings.
- All planting to be set out on site by Landscape Architect.

REV.	DESCRIPTION	DATE
9	UPDATED TREES & SHRUBS	25/10/2024
8	FIRE ACCESS OVER WILDFLOWER	25/06/2024
7	TREES IN PLANTERS	04/06/2024
6	UPDATED TREES	19/04/2024
5	UPDATED TREES	20/03/2024
4	BIODIVERSITY AND PROTECTION STATEMENT	01/03/2024
3	RIBA 4 - REISSUE WITH PLAN	19/01/2024
2	RIBA 4	08/12/2023
1	RIBA 4	04/12/2023

PLANNING ISSUE

Production Title:
Unit 4, Roundstone Barn
Roundstone Farm
Littlehampton Road
Ferring
BN12 6PW
01903 774 774
info@gardenhousedesign.co.uk

garden house design

Drawing Title: Detailed Schedule and Specification	**Project name:** Adur Civic Centre
Drawn by: KG	**Scale:** 1:XXX@A2
Date: 25/10/2024	**Drawing Number:** GHD3523-SCH1-09