

Roundabout soft landscape levels to be mounded up to the centre with a max height of +1m above the carriageway. Consistent and smooth contours required. Final levels to council design and specification.

Wildflower mix with 28 different species. Cornfield annuals give great colour in first year while perennials get established.

Swathes of ornamental grasses create a soft and natural swaying texture

Low maintenance planting requires once yearly cutting (refer to spec notes for more detail)

Extent of tall structure and tree allowance due to visibility

Silver birch planted in-ground. Positioned within the only available area due to visibility and sewer easement constraints

Minimum width to wildflower areas 1.7m for ease of maintenance

Root barriers protect to edge of drainage easements

Organic shaped swathes of planting create changing views of colour as you drive around the roundabout

Drop kerb to front of vehicle area

Maintenance area hard surfacing

Key:

- Soft Landscaping / Artwork**
- Large Feature Trees (planted in ground)**
Heavy Standard, Girth 18-20cm
Height 450-500cm
 - Species rich wildflower meadow seeding**
Refer to Meadow Mix
 - Ornamental grasses**
Refer to Planting Schedule
 - Biodiverse Ornamental Planting**
Refer to Planting Schedule
 - Root barriers**
Green Blue Urban 'ReRoot', depth TBC

ITEMS AS BUILT AS PER PREVIOUS PLANNING APPLICATION

Hard landscape and features

- Maintenance area hard surfacing
To council's specification
- Block paving
To council's specification
- Vehicle 'pull-in' area
To council's specification
- Highway herbs
To council's specification
- Asphalt carriageway
Outside of project scope - to council's specification
- Chevron signs
To council's specification

NOTES:

- Trees & Services**
- Where paths and hard surfacing is proposed within close proximity to trees all construction is to be in accordance with BS 5837: 2012
 - Root barriers / root protection measures are to be incorporated where required in accordance with guidelines where existing and proposed trees and vegetation are within 2m of proposed building or trees are in close proximity to services (final details to be agreed).
 - Tree and shrub planting proposed within drainage easements to be approved by local water authority. Planting to incorporate root protection measures around services or planting pits to ensure the sewer system is resistant to tree root ingress in accordance with the current Code for Design.
 - Contractor shall comply with NJUG publication, volume 4 'Guidelines For The Planning, Installation And Maintenance Of Utility Services In Proximity To Trees' together with BS 5837:2012 Trees in Relation to Construction. Where conflict arises refer to the British Standard

SPECIES RICH MEADOW MIX	
John Chambers Heritage Butterfly Meadow 80% Grass Seed Wildflower Mix	
Sowing rate @ 5g/m ²	
Low Maintenance Grass Seed, Common Bird's Foot, Trefoil, Red Campion, White Campion, Red Clover, Oxeye Daisy, Common Dandelion, Hemp-Agrimony, Common Knapweed, Greater Knapweed, Wild Marjoram, Black Medick, Yellow Mellilot, Garlic Mustard, Musk Mallow, Devil's-bit Scabious, Field Scabious, Small Scabious, Selfheal, Soapwort, Red Valerian, Common Vetch, Kidney Vetch, Wild Pansy,	

PLANTING SCHEDULE

TREES (NATIVE)				
Species	Height	Girth	Size	Spec.
Betula pendula (Bp)	4500-500	18-20cm	Heavy Standard	RB, clear stem 175-200mm

ORNAMENTAL GRASSES				
Species	Spec.	Density	Notes	% of mix
Deschampsia cespitosa	3L	6/m ²	Plant in groups of 3,5 and 7	25
Stipa tenuissima	3L	6/m ²	Plant in groups of 3,5 and 7	25
Sesleria autumnalis	3L	6/m ²	Plant in groups of 5 and 7	40
Stipa gigantea	3L	6/m ²	Plant in groups of 3	10

BIODIVERSE ORNAMENTAL PLANTING MIX				
Species	Spec.	Density	Notes	% of mix
Alchemilla mollis	2L	6/m ²	Plant in groups of 3,5 and 7	10
Aium 'Summer Beauty'	2L	20/m ²	Underplanted throughout the bed	n/a
Brunnera macrophylla	2L	6/m ²	Plant in groups of 3,5 and 7	5
Calamagrostis acutiflora	2L	6/m ²	Plant in groups of 3,5 and 7	5
Echinacea purpurea	2L	6/m ²	Plant in groups of 3,5 and 7	10
Lavandula angustifolia	2L	6/m ²	Plant in groups of 3,5 and 7	15
Rosmarinus officianalis	2L	6/m ²	Plant in groups of 3,5 and 7	15
Sedum 'Matrona'	2L	6/m ²	Plant in groups of 3,5 and 7	10
Sesleria autumnalis	2L	6/m ²	Plant in groups of 5 and 7	20
Verbena bonariensis	2L	6/m ²	Plant in groups of 3,5 and 7	10

SOFTWORKS SPECIFICATION NOTES

The contractor is responsible to ensure that no products or practices are to be used that do not comply with relevant British Standards, Codes of Practice and Construction Regulations. Contractor to be fully satisfied with locations and off sets of services prior to excavations.

Site clearance generally: Where necessary remove rubbish, concrete, metal, glass, decayed vegetation and contaminated topsoil. Remove stones exceeding 75 mm. Remove material containing toxins, pathogens or other extraneous substances harmful to plant, animal or human life.

SOIL
Site preparation: Where required all existing topsoil and subsoil shall be stripped and stored separately on site. Heaps must not exceed 3m in height and should be used within 12 months in accordance with BS 4425 (Code of practice for general landscape operations).

Soil Sampling - Existing topsoil and inert sub soils, shall be analysed in accordance with BS 3882 to determine available nutrients, texture, organic matter content and pH. Where required, existing soils are to be improved in accordance with BS 3882:2015
Cultivation - Fall existing ruderal vegetation to ground level and remove arisings prior to cultivation. All areas to receive final layers of topsoil are to be de-compacted prior to spreading. Earth works vehicles to be small scale and tracked (loose-tipping) to minimise compaction, however chosen method for decompaction will be site specific dependant on size and soil conditions. Additional care must be taken as to not damage soil structure. All objects and stones over 75mm brought to the surface during decompaction are to be removed from the prepared surface layer. If existing subsoil horizon is found to consist of heavy clay, all proposed seeded areas to be fine ripped to 200mm depth at 300mm centres to increase drainage. Areas to be seeded to be chain harrowed to a fine tith and lightly rolled to provide firm seed bed. Remove all stones over 30mm dia in any direction. Imported soil material: Import as necessary to make up any deficiency of topsoil and/or subsoil existing on site to complete the work and mitigate deficiencies. All imported material must conform with industry standards BS 8601 (Subsoil), BS 3882 (Topsoil) and CLEA limits on heavy metals. Topsoil to be General purpose, 10mm sourced and locally sourced (unless otherwise stated). Wildflower Areas must have low-fertility topsoil (in accordance with BS3882:2015) OR prepared subsoil. Ornamental Grass and Biodiverse Ornamental Planting should have Multi-purpose topsoil in a sandy-loam category (in accordance with BS3882:2015).

Soil build up: Existing topsoil and subsoil to be retained and reused on site within the landscape scheme where possible. Prior to spreading all topsoil to be screened to remove large stones and other deleterious materials, such as plant roots, leaves and clay. Topsoil to be loose-tipped and spread over de-compacted subsoil/receiving area. The total minimum rooting depth for planting, after settlement, should be: Grass 450mm; Planted areas 600mm; Trees 900mm. Topsoil depths for these areas should not normally exceed 300mm with the following minimum depths for each area: Grass 150mm; Planted areas 300mm; Trees 300mm. Meadow & wildflower seeding to be sown directly onto prepared subsoil.

Finished level of topsoil after settlement: Above adjoining paving or kerbs: 25 mm. Below dpc of adjoining buildings: Not less than 150 mm. Shrub areas: Higher than adjoining grass areas by 50 mm. Within root spread of existing trees: Unchanged; Adjoining soil areas: Many in; Thickness of turf or mulch: Included.)

ADDITIVES
Compost to tree/shrub pits: To be as per BS PAS 100: well rotted sterilised spent mushroom compost max. pH 6.7 or Target Treestart compost. The contractor shall provide a Certificate of Analysis to show that the material being supplied complies with the above criteria. Incorporate spent mushroom compost or equivalent approved peat free compost into tree and planting pits at a rate of 3 parts topsoil to 1 part compost, thoroughly mixed together.

Fertiliser to ornamental shrub beds - Apply slow release fertiliser, Scotts 'Enmag' 4.19.10 NPK or equivalent approved at a rate of 50 gms/sq. metre over topsoil surface and fork into top 225mm spit.

No fertiliser to Wildflower areas.

PLANTING
Generally: Minimise trafficking of graded slopes. All plants to be preferably planted between Nov. - March. Nursery stock trees and shrubs to be in accordance with BS 3936 and BS 6545, to be supplied and planted in accordance with British Standards and the Horticultural Association's Plant Handling Guide. Container grown shrubs to be thoroughly watered before planting; trees and bare root shrubs watered after planting.

Times of year for planting: Deciduous Trees, hedges and shrubs: Late October to late March. Evergreen hedges and shrubs: September/ October or April/ May. Container grown plants: At any time if ground and weather conditions are favourable. Watering and weed control to be provided as necessary. Seeding shall take place during April or September, unless otherwise instructed.

Shrub/Hedge planting pits: Timing: Excavate 1-2 days (maximum) before planting. Pit sizes: Wide enough to accommodate roots/toughs when fully spread and 75 mm deeper than root system. Pit bottom improvement: Break up to a depth of 150 mm, incorporating 25g of slow-release fertiliser per planting pit. Where existing planting and roots are present plants are to be notch planted to minimise disruption/root damage. Backfilling material: Reuse excavated material. Watering: Immediately after planting, thoroughly and without damaging or displacing plants or soil. Firming: Lightly firm soil around plants and fork and/or rake soil, without damaging roots, to a fine tith with gentle cambers and no hollows.

Tree pit sizes: Standard trees excavate a tree pit 1.2m x 1.2m x 900mm. Break up sides and bottom of pits to a depth of 100mm to ensure free drainage. Tree pit treatment: Soil ameliorant worked into pit bottom. Pit sides to be scarified and backfilling material to be in accordance with topsoil and subsoil specification. Drainage Layer: Provide 200mm layer washed, clean gravel to base of pits to aid drainage (tree pit to be actively drained if poor draining soil or clay discovered by contractor).

Tree Accessories: Typically trees in soft landscape to be staked unless stated otherwise by the Landscape Architect. Underground guying is recommended for semi mature trees or trees within hard landscape and in public areas. Trees to be staked using 1m long x 75mm dia. round timber stakes (size of stakes to be adjusted to suit size of tree). Cross member to be installed 75mm x 25mm (larger trees will need large cross members). Locate proprietary Hessian ties on cross member to secure tree and prevent rubbing. Short stakes (<1.0m high) with biodegradable Hessian ties are recommended to encourage wind tolerance and prevent rubbing. Tree pit accessories by Green Tech or similar: Underground guying and perforated plastic irrigation/ ventilation pipe to landscape architects approval.

Root Barriers: To be used where indicated on plan. Root barrier by Green Tech or similar to be installed vertically in accordance with supplier recommendations.

Protective fencing/guards: Newly planted areas or individual plants are to include rabbit/deer proof fencing. Either perimeter mesh fencing or individual biodegradable plastic free spiral guards/shelters/tubes are to be installed around all planting where required. Where areas are fenced, mesh to be 1m min above ground and buried 300mm below ground.

Mulching: Approved medium course chipped tree bark composted for at least 4 weeks. Particle size 25-75mm dia, max. 20% fines, pests and disease free and free of Methyl Bromide contamination. Clear any weeds, ensure soil is thoroughly moistened prior to applying mulch. All planting areas inc. trees, hedges and planting beds should receive an even 75mm depth of bark mulch, adjoining edge of mulch to be 150mm min. below adjacent hardstanding to avoid spillage. 50mm depth of mulch is only suitable for higher quality ornamental bark (<5% fines, 5-35mm size etc.). All bark should be FSC certified. Option to use biodegradable mulch mats to control moisture, soil temperature, erosion and weeds. All trees within grass area to have a 1.5m diameter mulch circle.

Cutting In: Where cutting planting beds into existing grassed areas, the surrounding grass shall be protected and made good as necessary. These areas to be made good by preparing and re-seeding area. Seed mixes: John Chambers Lawn/Meadow seed or similar approved.

Seed Preparation and Implementation for Wildflower Areas: No addition of nutrient to soil required. Method to suit soil type, proposed usage, location and weather conditions during and after sowing. Deeply rip and turn soils within area to be wildflower seeded to bring subsoil to surface and reduce overall soil fertility. Following turning of the soil, wildflower seed areas should be graded and cultivated and all areas brought to a tith, to the satisfaction of the Contract Administrator, prior to seeding. Any seeding instructions, shall comply with all regulations and shall be carried out 21 days prior to seeding. No seed spreading shall take place if ground or weather conditions are unfavourable. The seed shall be sown in two equal sowings, in transverse directions, using the seed mix specified, evenly distributed at the manufacturer's recommended rate. Thoroughly water completed seeding.

Preparation of Seed Bed - Wildflower areas:
The following sequence of operations shall apply following soil turning:-
(i) 1st Harrowing: to produce an even rough grade
(ii) Stonepick: all objects with any dimension greater than 50mm shall be picked off the seed bed and disposed of off site
(iii) Luting: to areas to remove any hollows and to produce fine evenly graded surface standing 25mm above all obstacles and edges
(iv) 2nd Harrowing / Raking: to produce a fine tith
(v) Cambridge Roll: to produce lightly compacted even surface

MAINTENANCE: GENERAL
1 year Defects Liability Period applies. All dead or falling plants to be replaced the following growing season. Maintain a weed free bare earth area 600mm dia minimum around individual trees. Herbicide shall only be used where necessary and if use is required it should be a non-residual translocated herbicide and spot applied/applied with spray guard. Application and use to be in accordance with EA guidance. Prior to spraying ensure all spirals are tight to ground level and leaves within spray range are fully enclosed. Arisings: Remove. Trim all edges. Weed control: Substantially free of broad leaved weeds. Method: Application of a suitable selective herbicide. Remove any stones 25 mm in any dimension brought to the surface. Watering: To ensure establishment.

MAINTENANCE: WATERING
Quantity: Wet full depth of topsoil. Application: Even and without displacing seed, seedlings or soil. Frequency: As necessary to ensure the establishment and continued thriving of all plants. Newly seeded areas shall be watered using a fine rose or sprinkler and not lead to over saturation, disturbance of tith or washing away of seed.

MAINTENANCE: WILDFLOWER PLANTING
In first year, when the sward exceeds 100mm in height, the first cut shall reduce sward to 50-70mm height. Three subsequent cuts down to 50-70mm height should be carried out when the sward exceeds 100mm height. Remove all arisings off site.
2nd year cutting regime and onwards to consist of one single cut in late August or September after seed has been set. Sward to be cut down to 100mm. Following the cut, arisings to be left in situ for 2-3 days before being cleared off site.

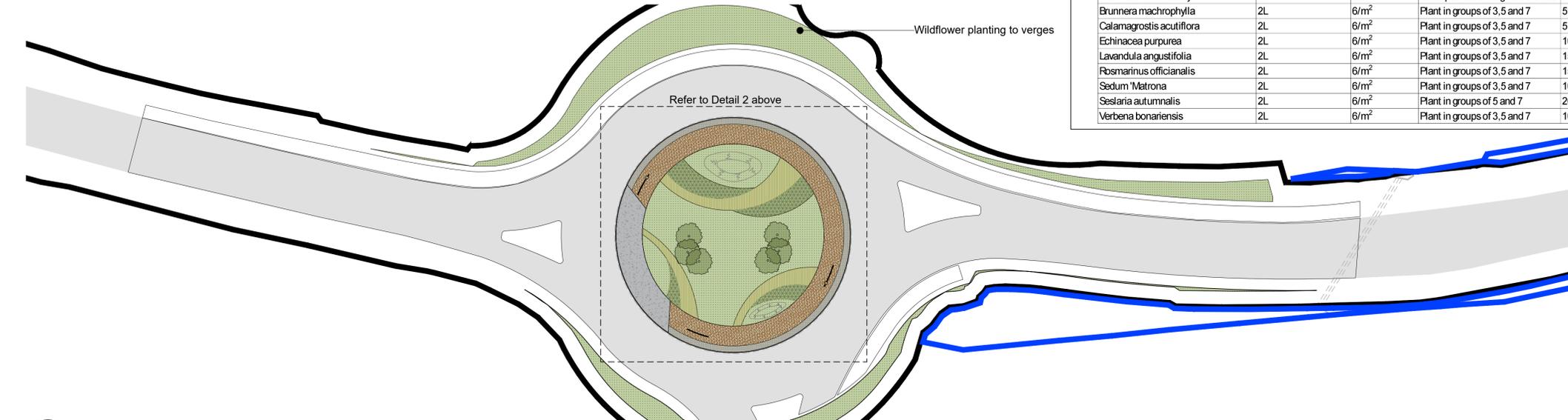
MAINTENANCE: ORNAMENTAL GRASSES AND BIODIVERSE ORNAMENTAL MIX
In winter plants to be assessed for quantity of dead foliage. If minimal then in April or May, carefully rake to remove any old foliage or seed heads - the old growth should come away easily. If mostly dead foliage or plants are beginning to look messy, cut them back in late winter (Jan / Feb) to 5-10cm from soil. Avoid cutting any new season growth. All arisings to be removed from site.

NOTE: Works to be carried out in accordance with the most up to date and current British Standards referenced within this specification.

2 ROUNDABOUT LANDSCAPE PROPOSALS

694-001

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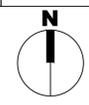
1 SITE LAYOUT PLAN

694-001

1:500@A1

Project: ES10 GOLDTHORPE ROUNDABOUT	Client: BARNSELY METROPOLITAN BOROUGH COUNCIL	P06 24/07/25 Sculpture removed.Trees added	PY	RW	SH	<p>Notes:</p> <ol style="list-style-type: none"> For planning purposes only Not for construction all dimensions to be confirmed on site Based on Layout Drawing - HD/A635.69/3000/1 ES10 A635 Goldthorpe Roundabout Easement Refer to engineers drawings for hard landscape, boundary treatments, site levels and drainage. Build ups/footings to engineers specification. Contractor to be fully satisfied with locations of services prior to excavations. All existing trees to be protected to BS 5837. Crown copyright and database rights 2022.
		P05 13/05/25 Updated to incorporate sculpture and planting	SB	SH	SH	
Title: SITE LAYOUT PLAN AND LANDSCAPE PROPOSALS	Drawn: PY	P04 29/04/25 Updated to incorporate sculpture and planting (DRAFT)	SB	SH	SH	
	Chk'd: RW	P03 23/09/22 Amend to notes	RW	SH	SH	
	App'd: SH	P02 13/09/22 FINAL PLANNING ISSUE	RW	SH	SH	
Drawing Number: PWP 694 001	Revision: P06	P01 31/08/22 Discharge of planning conditions	RW	SH	SH	
		P00 04/08/22 DRAFT - First issue for comment	RW	SH	SH	
		Rev Date Detail	Rev	Chk'd	App'd	

Scale 1:150



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