Millwood Special Primary School, Radcliffe

Landscape proposals

MILLWOOD SCHOOL, RADCLIFFE
PLANTING SCHEDULE

TREES

No's	Species	Abbrev.	Common name	Girth (cms)	Height (cms)	Form/Pot size
4	*Acer campestre*	Ac	Field maple	12-14	350-425	RB
1	*Alnus glutinosa*	Ag	Alder	12-14	350-425	RB
5	*Betula pendula*	Bp	Birch	12-14	350-425	RB
1	*Crataegus monogyna*	Cm	Hawthorn	12-14	350-425	BR
2	*Populus tremula*	Pt	Aspen	12-14	350-425	RB
4	*Prunus padus*	Pp	Bird cherry	12-14	350-425	RB
5	*Sorbus aucuparia*	Sau	Mountain ash	12-14	350-425	RB
2	*Tilia cordata*	Tc	Lime	12-14	350-425	RB

SHRUB PLANTING

No's	Species	Common name	Height (cms)	Form/Pot size	Notes
65	*Cornus alba 'Aurea'*	Yellow dogwood	40-60	3L	
25	*Cornus alba 'Sibirica'*	Red dogwood	40-60	3L	
25	*Elaeagnus pungens 'Maculata'*	Spindle	30-40	3L	
65	*Escallonia 'Crimson Spire'*	Red escallonia	30-40	2L	
34	*Escallonia 'Donard Seedling'*	Pink escallonia	30-40	2L	
95	*Hypericum 'Hidcote'*	St John's Wort	20-30	2L	
48	*Olearia haastii*	Daisy bush	20-30	2L	
30	*Sambucus nigra 'Aurea'*	Golden elder	40-60	2L	

NATIVE SPECIES SCRUB PLANTING (170m2)

No's	Species	%age mix	Common name	Height (cms)	Form/Pot size	Notes
9	*Acer campestre*	5	Field maple	60-80	B 1+1	
18	*Corylus avellana*	10	Hazel	60-80	B 1+1	
100	*Crataegus monogyna*	60	Hawthorn	60-80	B 1+1	
18	*Hedera helix*	10	Ivy	60-80	2L	
9	*Ilex aquifolium*	5	Holly	60-80	3L	
9	*Rosa canina*	5	Dog rose	40-60	2L	
9	*Sambucus nigra*	5	Elder	60-80	B 1+1	

TOPSOIL SPECIFICATION

General

Improved topsoil shall comply with BS 3882:2015 for multipurpose topsoil as a suitable medium for growing the ordinary range of grasses and cultivated plants under satisfactory conditions of maintenance.

Topsoil Characteristics and Major Nutrients etc.

pH	5.5-7.8
Electrical Conductivity 1:2.5 (w/v) extract	<1500 us/cm
Organic Matter	> 4.0% (w/w) (1)
Nitrogen (N)	> 0.2% (w/w) (2)
Extractable Phosphorus (P)	> 45 mg/kg (3)
Extractable Potassium (K)	> 240 mg/kg (3)
Extractable Magnesium (Mg)	> 80 mg/kg (3)

(1) BS 1377, (2) Kjeldahl, (3) MAFF Handbook 9&427

Stones

Maximum size in any direction	50mm
Maximum content (2mm-50mm)	35% by dry weight of which the fraction 2mm-5mm must not exceed 20% by dry weight

Soil Texture

Sand (0.05 - 2.00mm)	Maximum 75%	Minimum 20%
Silt (0.002 - 0.05mm)	Maximum 60%	Minimum 5%
Clay (less than 0.002mm)	Maximum 30%	Minimum 5%

Textural class

The diagram above shows the soil texture triangle with lines denoting organic matter superimposed. Soils with the appropriate amounts of organic matter would have cation exchange values of 30+ meq. per 100g, and would be classified as organic soils. Soils with less organic matter are mineral soils. The area inside the hexagon (shaded in green) denotes the preferred textural classes for landscaping purposes.

Fig. 1. Textural Classes:

7. Topsoil must be free from pernicious weeds and roots, clay lumps, non-soil material, brick and other building materials, foreign matter and chemical contamination.

KEY

- Existing tree retained
- Existing dead tree retained as standing deadwood.
- Proposed native scrub planting to provide screening and reinforcement to canal corridor.
- Proposed amenity and wildlife attracting shrub planting to provide screening to road frontage
- French drain - stone wrapped in porous membraine to 150mm below finished levels, topsoiled and turfed
- Short mown amenity grassland to be reinstated where necessary and seeded
- Proposed native species standard tree planting
- Site boundary

LANDSCAPE SPECIFICATION NOTES FOR PREPARATION AND PLANTING

(Generally to BS 4428:1989 – General Landscape Operations; excluding hardworks)

Generally

1. Materials and workmanship shall generally be in accordance with the following documents:
2. *BS 3836-1:1992 Nursery Stock. Specification for Trees and Shrubs*
3. *BS 4428:1989 Code of Practice for General Landscape Operations*
4. Trees and other vegetation to be retained shall be protected in accordance with the provisions of *BS 5837:2012 Trees in relation to design, demolition and construction - Recommendations*
5. *BS3882: 2015 Topsoil*

Groundworks

1. Groundworks for proposed planting shall be in accordance with BS 4428:1989, Areas for proposed tree planting shall be cleared of unsuitable materials, debris, concrete and the like to a depth of 900mm below ground level within a 2.0m radius of each tree. A minimum depth 600mm imported topsoil shall be supplied for planting of trees (depths made up by tree planting compost (See Tree section). Areas for shrub and groundcover planting shall have clearance of unsuitable material to a depth of 600mm. A minimum of 400mm imported topsoil over 200mm depth of clean subsoil shall be supplied for planting of shrubs and groundcover. The formation levels to all planted areas shall be ripped and broken up as necessary to a depth of 200mm to achieve suitable drainage.
2. A 50mm layer of approved non-peat based planting compost shall be applied over the whole surface of shrub planting areas and cultivated into the soil.
3. All levels shall be brought up to an even grade to approved cambers, 25mm below adjacent kerb lines. The soil shall be firm with the top 25mm cultivated to a fine tilth. ENMAG or similar approved granular fertiliser shall be worked into the soil at a rate of 70 grams/m^2 to all areas to received planting.
4. All topsoil shall be stone picked, removing stones with a dimension in any direction of 25mm or over and re-graded to marry into adjacent levels prior to planting.

Shrubs

5. All areas to receive shrubs shall be clear of all debris, concrete and like and the base of these areas shall be broken out to a minimum depth of 450 mm to relieve any compaction and so aid water drainage.
6. All areas to receive shrubs shall be topsoiled to a minimum depth of 350 mm. If no topsoil currently exists. Topsoil shall be 25mm below the level of adjacent kerbs. All topsoil shall be cultivated, stone picked and graded to marry into adjacent levels prior to planting.
7. All shrubs shall be to the specified size, bushy and in good health free from disease.
8. Shrubs shall be planted into topsoil with a granular slow-release fertiliser spread over the surface at the manufacturer's recommended rates.
9. All amenity or ornamental shrub beds shall receive a 50 mm layer of ornamental bark mulch.
10. Areas of broad-leaved weeds shall be cleared by either hand pulling or spot treatment using a selective broadleaf herbicide.

Trees

11. All trees shall be to the specified size and comply with BS 3036. All shall be well branched with a straight stem and leader shoot and be free from pegs, and bark damage.
12. Trees shall be planted in a pit 1200 dia. x 750mm deep and backfilled after planting with imported topsoil incorporating 2 x 80L bags of Fison's Tree Planting and mulching compost.
13. All trees shall be double high staked to good horticultural practice using 75mm peeled and pointed larch stakes and rubberised tree ties with spacer.

Whips and Transplants (for native species)

14. All whips and transplants shall be supplied and installed with 75mm diameter x 600mm high green tree shelters to transplants, supplied with 25 x 25mm timber softwood stake for fixing into the ground. Do not apply to feathered stock.
15. All conifers and holly species shall be supplied & installed with 250mm diameter fine mesh guard with 1 no. 25 x 25mm timber softwood stakes for fixing into the ground.
16. All stock shall be notch planted with the exception of feathered stock and holly species which shall be pit planted.

Seeding preparation

17. All areas to receive seeding shall be clear of construction debris and the like to depth of 300mm.
18. All areas to receive seeding shall be free of weeds and broad-leaved species. Annual weeds shall be controlled by mechanical means or the use of contact herbicide. Perennial weeds e.g., docks, thistle, nettles and couch grass shall be controlled with a translocated Glyphosate based herbicide. Use of herbicide in close proximity to a water course requires the permission of the Environment Agency via Form Aq4ple301.
19. All areas to receive seed shall be cultivated and brought to a medium tilth by raking and harrowing within the top 25mm. All debris, including stones of 25mm or over, brought to the surface shall be removed off site.
20. No fertiliser shall be applied to the soil.

Seed sowing

21. The specified seed mix shall be sown at the supplier's recommended rate (generally 5grams/m^2. The quantities of seed shall be divided in half, mixed with dry (or sifted topsoil or sawdust) and sown evenly broadcast in transverse directions and the seed shall be raked or harrowed in. The seed shall not be drilled. Sowing shall be carried out during calm weather in optimum months (March-May and August to October). All sowing is at the contractor's own risk and any areas where germination fails shall be re-seeded at the contractor's own expense.
22. After sowing the seed shall be lightly harrowed or hand raked into the immediate surface and lightly rolled.

Maintenance for grassed areas

23. Any areas which fail to germinate shall be re-cultivated and re-seeded, within one month of the original seeding.
24. Areas of broad-leaved weeds shall be cleared by either hand pulling or spot treatment using a selective broadleaf herbicide.
25. Cut twice a year in early spring and late autumn to a height of approximately 50-100mm to allow for flowering and wildflowers to set seed.

NOTES:
Exact postioning of trees will fully co-ordinate with drainage works.

REVISIONS

P1	STAGE 4 ISSUE	05.03.24
A	Alterations to suit landscape / comments.	22.05.24

Project
MILLWOOD SPECIAL PRIMARY SCHOOL, RADCLIFFE

Title
Landscape Proposals

Client
BRADSHAW GASS AND HOPE

Date February 2024		**Scale** 1:250@A1	
Drawn LAC	**Checked** DS	**Drawing No.** 2493_02	ACONEX REFERENCE MSE-BGH-XX-XX-DR-A-2105
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