



# e3p

Biodiversity Metric Report

Oakenrod School, Rochdale

Reference: 81-303-R1-2

Date: October 2024



## BIODIVERSITY METRIC REPORT

Oakenrod School  
Rochdale

Prepared for:  
**Hallmark Developments Ltd**

**Report Ref: 81-303-R1-2**  
**Date Issued: 23/10/2024**

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|                       |                                                                    |                                                                    |  |
|-----------------------|--------------------------------------------------------------------|--------------------------------------------------------------------|--|
| <b>PROJECT NUMBER</b> | 81-303                                                             |                                                                    |  |
| <b>VERSION</b>        | Version 1                                                          | Version 2                                                          |  |
| <b>REMARKS</b>        | Draft                                                              | Final                                                              |  |
| <b>DATE</b>           | August 2023                                                        | October 2024                                                       |  |
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## EXECUTIVE SUMMARY

|                                        |                                                                                                                                                                                                                                                                                                                                                                                                |
|----------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Site Address</b>                    | Land off Bury Road, Spotland Bridge, Rochdale, OL11 4EE                                                                                                                                                                                                                                                                                                                                        |
| <b>Co-ordinates</b>                    | E 388760, N 413124                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Site Area</b>                       | Approximately 1.8 ha                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Current Site Use</b>                | The site comprised an area of disused land within the town of Rochdale. The majority of the site comprised tall ruderal, bare ground and scrub, with an area of broadleaved woodland lies in the south of the site. Bury Road defines the site's northern boundary and the River Roch defines the site's southern boundary with a small section of the river lying within the site's boundary. |
| <b>Proposed Development</b>            | Development proposals include the construction of residential housing, with a wildlife area to be created in the south of the site.                                                                                                                                                                                                                                                            |
| <b>Results</b>                         | <p>The biodiversity metric results show a gain of 0.35 habitat units and no net change in river units.</p> <p>A gain of 3.73% habitat units will be incurred on-site as a result of development.</p>                                                                                                                                                                                           |
| <b>Conclusions and Recommendations</b> | <p>The proposed scheme and proposed site plans show a total gain of 0.35 habitat units and no net change in river units as a result of the development. A net gain in habitat units has therefore been achieved on-site.</p> <p>Additional species enhancements could be provided on-site, which could include bat and bird boxes, hedgehog houses and hibernacula.</p>                        |



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## **1. INTRODUCTION**

### **1.1. BACKGROUND**

E3P has been instructed by Hallmark Developments Ltd to undertake a Biodiversity Metric Calculation at Oakenrod School, Rochdale, hereafter referred to as “the site”.

This report has been produced by Phoebe Parry BSc (Hons) Consultant Ecologist at E3P. Phoebe has experience undertaking Biodiversity Net Gain and Condition Assessments on a variety of projects across the UK.

This report should be read in conjunction with 'Biodiversity Metric 4.0 Calculation Tool – Oakenrod School, Rochdale.xl'.

### **1.2. PREVIOUS SURVEYS**

A Phase 1 Habitat Survey was conducted by Rachel Hacking Ecology in May 2022 (report reference: Rachel Hacking Ecology, 2022). The site was found to comprise bare ground, broadleaved woodland, dense scrub, ephemeral/short perennial and tall ruderal. Three ponds were identified on site, along with several piles of spoil associated with previous demolition. A MoRPH survey was also conducted on the River Roch in the south of the site, the results of which indicate that the river is of 'Fairly Poor' condition. Please refer to Biodiversity Impact Assessment- Oakenrod School, Rochdale (Rachel Hacking Ecology, 2022) for the full river condition assessment.

### **1.3. SITE LOCATION**

The site is located in Rochdale, within a predominantly residential area. Bury Road defines the site's northern boundary, while Bridgefield Road partially defines the site's eastern boundary. The River Roch defines the site's southern boundary, with the river partially within the site boundary. Please refer to Figure 1.1 for the approximate site location.



FIGURE 1.1 APPROXIMATE SITE LOCATION



## 1.4. OBJECTIVES

The objectives of the Biodiversity Metric are to:

- ✿ Identify percentage change in on-site habitat.
- ✿ Identify the number of habitat units lost/gained on-site; and
- ✿ Determine the need for a conservation offset payment or off-site habitat creation.

The findings of the calculation are detailed within this report, along with recommendations.



## 2. METHODOLOGY

### 2.1. BIODIVERSITY METRIC

Department for Environment, Food and Rural Affairs' (DEFRA) Biodiversity Metric 4.0 2023 version was used to undertake the metric calculation. The metric was undertaken following guidance as detailed within The Biodiversity Metric 4.0 User Guide (Natural England, 2023), the Biodiversity Metric 4.0 Technical Supplement (Natural England, 2022) and the Summary of Changes Biodiversity Metric 3.1 to 4.0 (2023).

This metric was calculated by Zach Squire-Watt. Zach has experience carrying out condition assessments and using the Biodiversity Metric Calculation Tool for a variety of sites.

This metric was reviewed by Associate Director Celia Barlow, BSc (Hons) MSc MEnvSc CEnv MCIEEM. Celia has undertaken a number of online training courses with CIEEM including 'Calculating and Using Biodiversity Units with Metric 2.0' and 'Biodiversity Net Gain Through Development'. Celia has also completed Condition Assessments on a number of sites across the UK and holds a Level 3 Field Identification Skills Certificate (FISC).

### 2.2. ON-SITE HABITAT BASELINE DATA

The baseline data used to inform the condition assessment was collected on 17th May 2022 during the Phase 1 Habitat Survey conducted by Rachel Hacking Ecology report. All baseline habitat condition assessments have therefore been taken from the previously produced report (Rachel Hacking Ecology, 2022).

On-site baseline habitats were measured by re-digitalising the plans produced by Rachel Hacking Ecology (2022) to obtain accurate measurements. The Root Protection Areas (RPAs) of scattered trees were taken from the Arboricultural Impact Assessment (AIA) produced by Tree Solutions in 2022 (22/AIA/ROCH/11). Please see Appendix I for the Phase 1 Habitat Plan.

Phase 1 habitat types were translated into UKHab habitat types using the metrics Technical Data Translation Tool.

### 2.3. POST DEVELOPMENT HABITAT CREATION

The Landscape Proposals were used to measure potential habitat creation on-site (Trevor Bridge Associates, Drawing numbers 7188.01, 7188.02 & 7188.03). The areas of proposed habitat were measured using QGIS from the PDF drawing and the area of proposed trees was calculated using the Urban Tree Calculator within the metric.

A 70:30 ratio to the area of built houses: area of vegetated gardens has been applied in the metric. This is to reflect any uncertainty of the status of the vegetated gardens once residents move into the houses as a vegetated garden could be paved with hardstanding, thus reducing the biodiversity value of the garden.

Please see Appendix II for the Landscape Proposals.



## **2.4. LIMITATIONS**

Some areas on the site are double counted, including root protection zones and areas of habitat, where overlap is shown. This means areas of habitat pre- and post-development do not total to the same area.



### 3. RESULTS

#### 3.1. ON-SITE BASELINE CONDITION ASSESSMENT RESULTS

Table 3.1 shows the details of the habitat condition assessment used for input into the metric calculation tool. Please refer to the Biodiversity Impact Assessment (Rachel Hacking Ecology, 2022) for the full condition assessment criteria for each habitat.

TABLE 3.1 HABITAT BASELINE CONDITION ASSESSMENT RESULTS

| HABITAT TYPE (PH1)                    | HABITAT TYPE (UKHAB)                              | AREA/LENGTH (HA/KM) | CONDITION ASSESSMENT | DESCRIPTION                                    |
|---------------------------------------|---------------------------------------------------|---------------------|----------------------|------------------------------------------------|
| <b>SPOIL HEAPS</b>                    | Urban – Vacant or derelict land                   | 0.11                | Poor                 | Passes 1 of 3 condition assessment criteria.   |
| <b>TALL RUDERAL</b>                   | Sparsely vegetated land – Ruderal/Ephemeral       | 0.671               | Poor                 | Passes 1 of 3 condition assessment criteria.   |
| <b>EPHEMERAL/<br/>SHORT PERENNIAL</b> | Sparsely vegetated land – Ruderal/Ephemeral       | 0.1                 | Moderate             | Passes 2 of 3 condition assessment criteria.   |
| <b>BARE GROUND</b>                    | Urban – Bare ground                               | 0.399               | Poor                 | Passes 1 of 3 condition assessment criteria.   |
| <b>PONDS</b>                          | Lakes – Ponds (non-priority habitat)              | 0.0722              | Moderate             | Passes 8 of 9 condition assessment criteria.   |
| <b>CONTINUOUS SCRUB</b>               | Heathland and shrub – Mixed scrub                 | 0.15                | Poor                 | Fails all condition assessment criteria.       |
| <b>BROADLEAVED WOODLAND</b>           | Woodland and forest – Other woodland; broadleaved | 0.276               | Moderate             | Passes 27 of 39 condition assessment criteria. |



| HABITAT TYPE (PH1)         | HABITAT TYPE (UKHAB)                   | AREA/LENGTH (HA/KM) | CONDITION ASSESSMENT | DESCRIPTION                                                              |
|----------------------------|----------------------------------------|---------------------|----------------------|--------------------------------------------------------------------------|
| <b>HARDSTANDING (WEIR)</b> | Urban – Developed land; sealed surface | 0.0163              | N/A                  | N/A                                                                      |
| <b>SCATTERED TREES</b>     | Individual trees- Urban tree*          | 0.2597              | Moderate             | Pass 4 of 6 condition assessment criteria.                               |
| <b>RIVER</b>               | Other rivers and streams               | 0.02                | Fairly Poor          | Please refer to Biodiversity Impact Assessment (Rachel Hacking Ecology). |

\*Baseline trees are numbered on the AIA as follows: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 24, 25, 26, 27, 28

### 3.2. HABITAT RETENTION

Table 3.2 shows the details of habitats to be retained. Habitats to be retained include scattered trees, two ponds in the south of the site, hardstanding associated with the weir, an area of mixed scrub in the east of the site and a strip of land in the north-west of the site containing ephemeral/short perennial, bare ground and broadleaved woodland.

TABLE 3.2 HABITAT RETENTION CONDITION ASSESSMENT RESULTS

| HABITAT TYPE (LANDSCAPE PLAN)    | HABITAT TYPE (UKHAB)                              | AREA (HA) |
|----------------------------------|---------------------------------------------------|-----------|
| <b>EPHEMERAL/SHORT PERENNIAL</b> | Sparsely vegetated land – Ruderal/Ephemeral       | 0.0099    |
| <b>BARE GROUND</b>               | Urban – Bare Ground                               | 0.0057    |
| <b>PONDS</b>                     | Lakes – Ponds (non-priority habitat)              | 0.0577    |
| <b>MIXED SCRUB</b>               | Heathland and shrub – Mixed scrub                 | 0.048     |
| <b>BROADLEAVED WOODLAND</b>      | Woodland and forest – Other woodland; broadleaved | 0.1127    |
| <b>HARDSTANDING (WEIR)</b>       | Urban – Developed land; sealed surface            | 0.0163    |
| <b>SCATTERED TREES</b>           | Individual trees – Urban tree                     | 0.1697    |



| HABITAT TYPE (LANDSCAPE PLAN) | HABITAT TYPE (UKHAB)     | AREA (HA) |
|-------------------------------|--------------------------|-----------|
| <b>RIVER</b>                  | Other rivers and streams | 0.02      |

Retained trees are numbered on the AIA as follows: 3, 4, 5, 6, 7, 10, 11, 12, 13, 25, 27, 28, 29.

### 3.3. HABITAT CREATION CONDITION ASSESSMENT

Habitats are indicated on the Landscape Plan, which include residential housing and a wildlife area. Table 3.3 shows the details of the target condition assessment and total areas of habitat creation. It has been assumed that there will be no significant delay in the creation of the proposed habitat features, as such the delay in starting habitat creation has been set to zero.

TABLE 3.3 HABITAT CREATION CONDITION ASSESSMENT RESULTS

| HABITAT TYPE (LANDSCAPE PLAN)      | HABITAT TYPE (UKHAB)                      | AREA (HA) | TARGET CONDITION/DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | TARGET TIME TO CONDITION (YEARS) |
|------------------------------------|-------------------------------------------|-----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|
| <b>BUILDINGS/<br/>HARDSTANDING</b> | Urban – Developed land;<br>sealed surface | 1.034     | N/A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | N/A                              |
| <b>AMENITY<br/>GRASSLAND</b>       | Grassland – Modified<br>grassland         | 0.0597    | <p>Moderate – Passes 4 of 7 condition assessment criteria:</p> <p>There are 6-8 vascular plant species per m2 present, including at least 2 forbs (this may include those listed in Footnote 1). Note - this criterion is essential for achieving Moderate or Good condition. Where the vascular plant species present are characteristic of medium, high or very high distinctiveness grassland, or there are 9 or more of these characteristic species per m2 (excluding those listed in Footnote 1), please review the full UKHab description to assess whether the grassland should instead be classified as a higher distinctiveness grassland. Where a grassland is classed as</p> | 1                                |



| HABITAT TYPE<br>(LANDSCAPE PLAN) | HABITAT TYPE (UKHAB)                   | AREA (HA) | TARGET CONDITION/DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | TARGET TIME<br>TO CONDITION<br>(YEARS) |
|----------------------------------|----------------------------------------|-----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|
|                                  |                                        |           | <p>medium, high, or very high distinctiveness, please use the relevant condition sheet.</p> <ul style="list-style-type: none"> <li>Physical damage is evident in less than 5% of total grassland area. Examples of physical damage include excessive poaching, damage from machinery use or storage, erosion caused by high levels of access, or any other damaging management activities.</li> <li>Cover of bracken <i>Pteridium aquilinum</i> is less than 20%.</li> <li>There is an absence of invasive non-native plant species<sup>3</sup> (as listed on Schedule 9 of WCA4).</li> </ul>                                                                                                                                                                                                                              |                                        |
| <b>WILDFLOWER<br/>MEADOW</b>     | Grassland – Other<br>neutral grassland | 0.0986    | <p>Moderate – Passes 4 of 6 condition assessment criteria:</p> <ul style="list-style-type: none"> <li>The grassland is a good representation of the habitat type it has been identified as, based on its UKHab description - the appearance and composition of the vegetation closely matches the characteristics of the specific grassland habitat type. Indicator species listed by UKHab for the specific grassland habitat type are consistently present. <b>Note - this criterion is essential for achieving Moderate or Good condition for non-acid grassland types only.</b></li> <li>Sward height is varied (at least 20% of the sward is less than 7 cm and at least 20% is more than 7 cm) creating microclimates which provide opportunities for insects, birds and small mammals to live and breed.</li> </ul> | 5                                      |



| HABITAT TYPE<br>(LANDSCAPE PLAN) | HABITAT TYPE (UKHAB)                 | AREA (HA) | TARGET CONDITION/DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | TARGET TIME<br>TO CONDITION<br>(YEARS) |
|----------------------------------|--------------------------------------|-----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|
|                                  |                                      |           | <ul style="list-style-type: none"> <li>Cover of bracken <i>Pteridium aquilinum</i> is less than 20% and cover of scrub (including bramble <i>Rubus fruticosus</i> agg.) is less than 5%.</li> <li>Combined cover of species indicative of sub-optimal condition and physical damage (such as excessive poaching, damage from machinery use or storage, damaging levels of access, or any other damaging management activities) accounts for less than 5% of total area. If any invasive non-native plant species<sup>3</sup> (as listed on Schedule 9 of WCA4) are present, this criterion is automatically failed.</li> </ul>                                     |                                        |
| <b>POND</b>                      | Lakes – Ponds (non-priority habitat) | 0.0255    | <p>Moderate – Passes 6 of 7 condition assessment criteria:</p> <ul style="list-style-type: none"> <li>The pond is of good water quality, with clear water (low turbidity) indicating no obvious signs of pollution. Turbidity is acceptable if the pond is grazed by livestock.</li> <li>Less than 10% of the water surface is covered with duckweed <i>Lemna</i> spp. or filamentous algae.</li> <li>The pond is not artificially connected to other waterbodies, e.g. agricultural ditches or artificial pipework.</li> <li>Pond water levels can fluctuate naturally throughout the year. No obvious artificial dams<sup>2</sup>, pumps or pipework.</li> </ul> | 3                                      |



| HABITAT TYPE<br>(LANDSCAPE PLAN) | HABITAT TYPE (UKHAB)          | AREA (HA)           | TARGET CONDITION/DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | TARGET TIME<br>TO CONDITION<br>(YEARS) |
|----------------------------------|-------------------------------|---------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|
|                                  |                               |                     | <ul style="list-style-type: none"> <li>There is an absence of listed non-native plant and animal species<sup>3</sup>.</li> <li>The pond is not artificially stocked with fish. If the pond naturally contains fish, it is a native fish assemblage at low densities.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                        |
| <b>RESIDENTIAL GARDENS</b>       | Urban – Vegetated Gardens     | 0.324               | N/A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 1                                      |
| <b>PROPOSED TREES</b>            | Individual trees – Urban tree | 1.5757 (43, medium) | <p>Moderate – Passes 4 of 6 condition assessment criteria:</p> <ul style="list-style-type: none"> <li>The tree is a native species (or at least 70% within the block are native species).</li> <li>The tree canopy is predominantly continuous, with gaps in canopy cover making up &lt;10% of total area and no individual gap being &gt;5 m wide (individual trees automatically pass this criterion).</li> <li>There is little or no evidence of an adverse impact on tree health by human activities (such as vandalism, herbicide or detrimental agricultural activity). And there is no current regular pruning regime, so the trees retain &gt;75% of expected canopy for their age range and height.</li> <li>More than 20% of the tree canopy area is oversailing vegetation beneath.</li> </ul> | 27                                     |



### 3.4. STRATEGIC SIGNIFICANCE

The strategic significance was defined as 'Formally identified in local strategy'. The site comprised an area of disused land within the town of Rochdale. The majority of the site lies within a Greenspace corridor which runs along the River Roch; developments must therefore not sever or impede the key functions of designated greenspace corridor (Rochdale Core Strategy, 2016). The exact location of the greenspace corridor is not clear within the local plan. As such, as a worst-case scenario, all proposed habitats have been input into the metric as 'Area/ compensation not in local strategy/ no local strategy'.

### 3.5. BIODIVERSITY UNIT RESULT

The headline results of the metric show a gain of 0.35 habitat units and no change in river units as a result of development. Table 3.4 shows the headline results detailed within the Biodiversity Metric.

TABLE 3.4 HEADLINE RESULTS

| HEADLINE              | CATEGORY       | RESULT |
|-----------------------|----------------|--------|
| TOTAL NET UNIT CHANGE | Habitat Units  | +0.35  |
|                       | Hedgerow Units | N/A    |
|                       | River Units    | 0.00   |
| TOTAL NET % CHANGE    | Habitat Units  | +3.73  |
|                       | Hedgerow Units | N/A    |
|                       | River Units    | 0.00%  |



## 4. CONCLUSIONS AND RECOMMENDATIONS

The proposed scheme and proposed site plans show a total gain of 0.35 habitat units as a result of the development. No net loss in habitat units has therefore been achieved on site.

The total area of habitats lost within the metric is equal to 1.54 ha. This is equals the total area of habitat created. The area check within the metric has flagged the areas as not being equal. This is an error within the metric itself and should be disregarded.

The Biodiversity Metric does not take account for additional species enhancements within the site, and to further increase the site's value for wildlife the following could be provided:

-  Creation of hibernacula (following guidance set out within Froglife, 2001) for common amphibians.
-  Hedgehog houses may be installed to enhance the site for hedgehogs.
-  Bat and bird boxes could be integrated into the proposed residential units.



## 5. REFERENCES

- ✦ National Planning Policy Framework (2021). Ministry of Housing, Communities and Local Government.
- ✦ Natural England Joint Publication JP039. (2023). The Biodiversity Metric 4.0. User Guide. Technical Annex 2.
- ✦ Natural England Joint Publication JP039. (2023). The Biodiversity Metric 4.0. User Guide.
- ✦ Natural England. (2023). The Biodiversity Metric 4.0. Technical Annex 1. Condition Assessment Sheets.
- ✦ Rachel Hacking Ecology. (2022). Biodiversity Impact Assessment – Oakenrod, Rochdale.
- ✦ Rochdale Borough Council. (2016). Rochdale Core Strategy, Adopted October 2016.
- ✦ Trevor Bridge Associates (2023). Landscape Proposal – Oakenrod School Site, Rochdale (Drawing number 7188.01).
- ✦ Trevor Bridge Associates (2023). Landscape Proposal – Oakenrod School Site, Rochdale (Drawing number 7188.02).
- ✦ Trevor Bridge Associates (2023). Landscape Proposal – Oakenrod School Site, Rochdale (Drawing number 7188.03).

**END OF REPORT**



# **APPENDIX I**

## **PHASE 1 HABITAT PLAN**



Key:

— Site boundary

• Bare ground

■ Broadleaved woodland

▤ Continuous scrub

× Ephemeral/short perennial

■ River Roch

× Spoil

▨ Tall ruderal

Notes

|                                          |                |                   |                                        |                        |
|------------------------------------------|----------------|-------------------|----------------------------------------|------------------------|
| Issue:<br>1                              | Revision:<br>1 | Date:<br>07/08/23 | Drawn:<br>ZSW                          | Authorised:<br>CB      |
| Client:<br>Hallmark Developments Ltd     |                |                   | Job No.<br>81-303                      | Date:<br>07/08/23      |
|                                          |                |                   | Drawing No.<br>81-303-001              | Scale:<br>1 : 1800 @A4 |
| Job title:<br>Oakenfold School, Rochdale |                |                   | Drawing title:<br>Phase 1 Habitat Plan |                        |



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# **APPENDIX II**

## **LANDSCAPE PLANS**

KEY

EXISTING TREE TO BE RETAINED (REFER TO ARBORICULTURAL IMPACT ASSESSMENT)

PROPOSED TREE PLANTING

HEDGE PLANTING

ORNAMENTAL SHRUB PLANTING

TURF (CLOSE MOWN)

WILDFLOWER SEED MIX - EM2 GENERAL MEADOW MIXTURE

RETAINED HABITAT - (REFER TO HABITAT PLAN)

NATIVE HEDGE PLANTING

BIODIVERSE LAWN MIX

| Planting Schedule |                               |                    |                      |        |       |                  |
|-------------------|-------------------------------|--------------------|----------------------|--------|-------|------------------|
| Trees             | Abbreviation                  | Species            | Specification        | Height | Girth | Number of Plants |
| ACE               | Acer campestre                | min. 450cm 18-20cm | Extra Heavy Standard | 3x B   | 7 -   | 7 -              |
| ACST              | Acer campestre 'Street Wise'  | min. 450cm 18-20cm | Extra Heavy Standard | 3x B   | 6 -   | 6 -              |
| AG                | Alnus glutinosa               | min. 450cm 18-20cm | Extra Heavy Standard | 3x B   | 4 -   | 4 -              |
| BP                | Betula pendula                | min. 450cm 18-20cm | Extra Heavy Standard | 3x B   | 18 -  | 18 -             |
| CC                | Pyrus calleryana 'Chantrelle' | min. 450cm 18-20cm | Extra Heavy Standard | 3x B   | 11 -  | 11 -             |
| PP                | Prunus padus                  | min. 450cm 18-20cm | Extra Heavy Standard | 3x B   | 8 -   | 8 -              |
| QRO               | Quercus robur                 | min. 450cm 18-20cm | Extra Heavy Standard | 3x B   | 4 -   | 4 -              |
| SA                | Sorbus aucuparia              | min. 450cm 18-20cm | Extra Heavy Standard | 3x B   | 9 -   | 9 -              |
| SAR               | Sorbus aria                   | min. 450cm 18-20cm | Extra Heavy Standard | 3x B   | 3 -   | 3 -              |
| TC                | Tilia cordata                 | min. 450cm 18-20cm | Extra Heavy Standard | 3x B   | 8 -   | 8 -              |
| Total             |                               |                    |                      |        |       | 78 -             |

| Hedges | Abbreviation                      | Species              | Specification | Height | Pot Size | Density | Number of Plants |
|--------|-----------------------------------|----------------------|---------------|--------|----------|---------|------------------|
| CAR    | Carpinus betulus                  | Double staggered row | 60-80cm       | B      | 6m       | 1164 -  |                  |
| HRE    | Hebe albicans 'Red Edge'          | Double staggered row | 25-30cm       | SL     | 6m       | 90 -    |                  |
| PLO    | Prunus laurocerasus 'Otto Luyken' | Double staggered row | 60-80cm       | SL     | 4m       | 1200 -  |                  |
| Total  |                                   |                      |               |        |          | 2454 -  |                  |

| Shrubs | Abbreviation                       | Species         | Specification | Density | Height | Pot Size | Number of Plants |
|--------|------------------------------------|-----------------|---------------|---------|--------|----------|------------------|
| AJV    | Aucuba japonica 'Variegata'        | 4m <sup>2</sup> | 40-60cm       | SL      | 31 -   |          |                  |
| BCO    | Bergenia cordifolia                | 6m <sup>2</sup> | 20-30cm       | 3L      | 19 -   |          |                  |
| CAB    | Ceanothus 'Autumnal Blue'          | 4m <sup>2</sup> | 40-60cm       | 3L      | 38 -   |          |                  |
| EUEG   | Euonymus fortunei 'Emerald Gaiety' | 6m <sup>2</sup> | 20-30cm       | 3L      | 74 -   |          |                  |
| HEP    | Hebe pinguifolia 'Paget'           | 6m <sup>2</sup> | 30-40cm       | 3L      | 74 -   |          |                  |
| HG     | Hebe 'Green Globe'                 | 6m <sup>2</sup> | 30-40cm       | 3L      | 61 -   |          |                  |
| HH     | Hypericum 'Hidcote'                | 6m <sup>2</sup> | 30-40cm       | 3L      | 27 -   |          |                  |
| LAV    | Lavandula angustifolia 'Vera'      | 6m <sup>2</sup> | 30-40cm       | 3L      | 91 -   |          |                  |
| PRR    | Phloxia x Fraseri 'Red Robin'      | 4m <sup>2</sup> | 60-80cm       | SL      | 64 -   |          |                  |
| SKJ    | Skimmia japonica                   | 6m <sup>2</sup> | 30-40cm       | 3L      | 77 -   |          |                  |
| SS     | Sorbus 'Sunshine'                  | 6m <sup>2</sup> | 30-40cm       | 3L      | 77 -   |          |                  |
| Total  |                                    |                 |               |         |        | 711 -    |                  |

| Native Hedge Mix - Double Staggered row |                    |                |         |          |         |                          |
|-----------------------------------------|--------------------|----------------|---------|----------|---------|--------------------------|
| Abbreviation                            | Species            | Specification  | Height  | Pot Size | Density | Mix Species Contribution |
| ROSAR                                   | Rosa arvensis      | Transplant 1+1 | 60-80cm | B        | 6m      | 5%                       |
| ROSAR                                   | Rosa canina        | Transplant 1+1 | 60-80cm | B        | 6m      | 1%                       |
| ILEA                                    | Ilex aquifolium    | Container      | 60-80cm | SL       | 6m      | 10%                      |
| CORAV                                   | Corylus avellana   | Transplant 1+1 | 60-80cm | B        | 6m      | 20%                      |
| PRUSP                                   | Prunus spinosa     | Transplant 1+1 | 60-80cm | B        | 6m      | 20%                      |
| CRAMON                                  | Crataegus monogyna | Transplant 1+1 | 60-80cm | B        | 6m      | 40%                      |
| Total                                   |                    |                |         |          | 100%    |                          |
|                                         |                    |                |         |          |         | Total 605 -              |

BIODIVERSE LAWN MIX - To be sown at a rate of 50g/M<sup>2</sup>:

Meadowspice Pro-Species Rich-26  
<https://wildflowerurf.co.uk/products/meadowspice/species-rich-lawn/#species>

Available from Wildflowerurf.co.uk Tel: 01256 771222 (or similar approved)

WILDFLOWER SEED MIX - To be sown at a rate of 4g/M<sup>2</sup>:

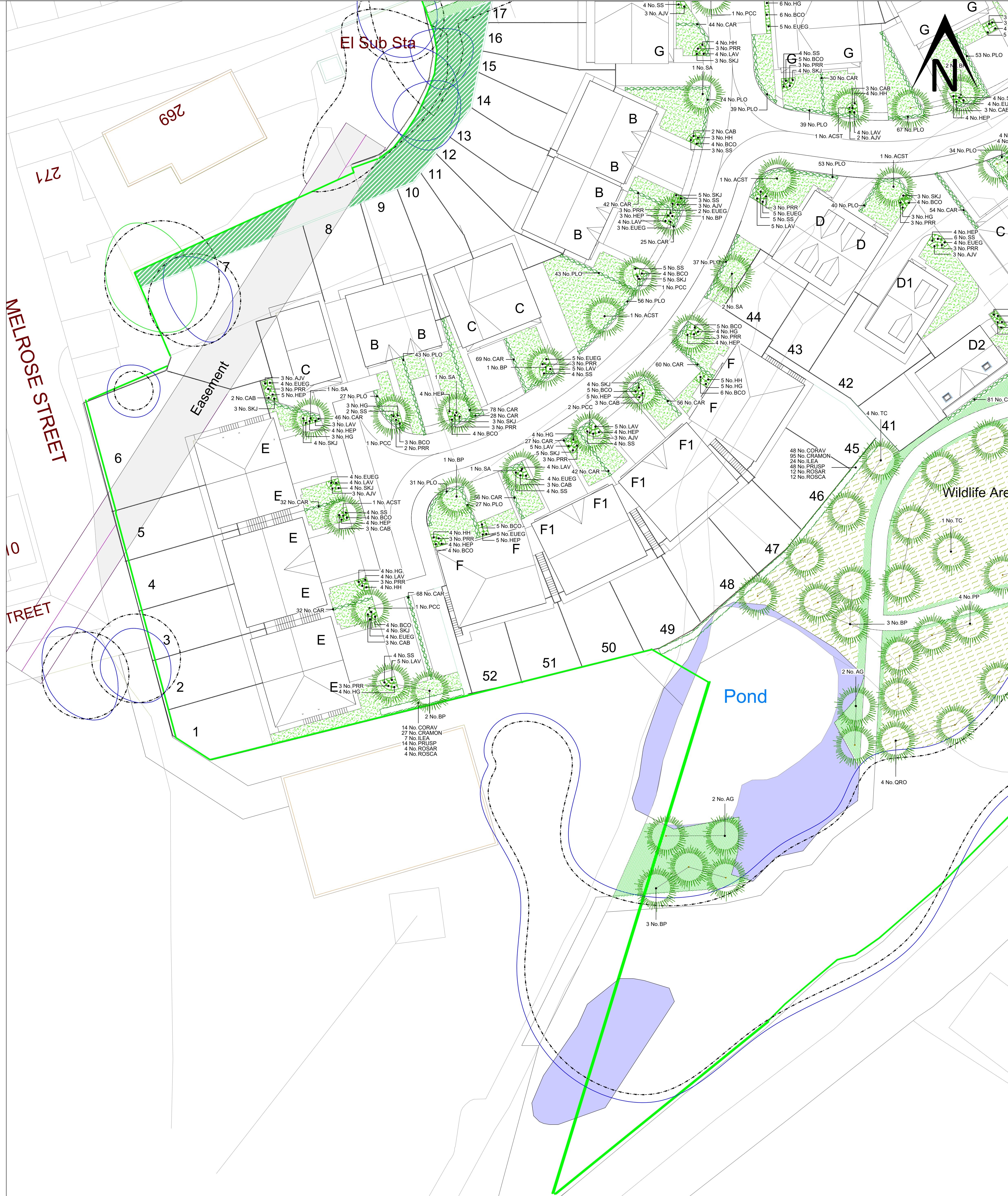
EM2 - Standard General Purpose Meadow Mixture.  
[www.wildseed.co.uk/product/mixtures/standard-general-purpose-meadow-mixture](http://www.wildseed.co.uk/product/mixtures/standard-general-purpose-meadow-mixture)

Available from Emorsgate Seeds. Tel: 01553 829 028 or similar approved.  
All wildflower areas to have 1M wide close mown grass edge adjacent roads and footpaths. Seeded with grass mix A22.

AMENITY GRASS SEED MIX - To be sown at a rate of 50g/M<sup>2</sup>:

A22 - Hard Wearing, Low Maintenance.  
[www.germinallamenity.com/a22-low-maintenance](http://www.germinallamenity.com/a22-low-maintenance)

Available from Germinall GB Ltd. Tel: 01522 866714 (or similar approved)



0m 5m 10m 15m 20m 25m

**SPECIFICATION**

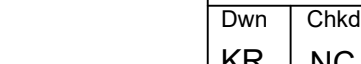
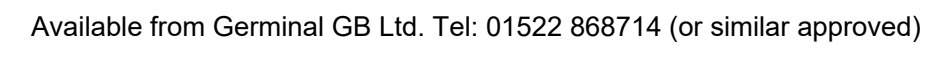
**GROUND PREPARATION - GENERAL**

**Preparing for topsoil**  
Grading and cultivation shall be in accordance with BS 4428:1989 section 4. Subsoil that is to receive topsoil shall, whether uncompacted or not, be thoroughly broken up by hand, by heavy rollers, by subsoiler or front equipment with adequate power to do so. Thoroughly break up the surface to a depth of 150mm, cleared of all large stones, bricks, kerbstones, etc. Use tools (including long metal rods), coarse vegetation and all other extraneous matter.

**Subsoil grading**  
Subsoil shall only be graded after loosening as above, and this shall be undertaken by the use of a tractor and blade grader or large areas and by a small mechanical grader or by hand on small areas. Grading shall not be done by heavy machinery. For grading by other purpose after subsoiling and/or topsoiling has taken place.

**Mowing of level**  
When subsoil is reported in low lying areas to cause formation levels, it shall be lightly consolidated and left to settle for 2 weeks. Topsoil shall be applied to the surface of the subsoil free from metal, concrete or organic material with any one dimension greater than 100mm. All imported fill material shall be approved by the Landscape Architect prior to spreading on site.

**Supply of topsoil**  
Topsoil to be supplied shall be approved by the Landscape Architect and details of the source of supply shall be provided in order that inspection may be made before delivery commences. Topsoil shall conform to BS 3804:2012. Recommendations and classification for topsoil, classed as 1, 1a, 1b, 1c, 1d, 1e, 1f, 1g, 1h, 1i, 1j, 1k, 1l, 1m, 1n, 1o, 1p, 1q, 1r, 1s, 1t, 1u, 1v, 1w, 1x, 1y, 1z, 1aa, 1ab, 1ac, 1ad, 1ae, 1af, 1ag, 1ah, 1ai, 1aj, 1ak, 1al, 1am, 1an, 1ao, 1ap, 1aq, 1ar, 1as, 1at, 1au, 1av, 1aw, 1ax, 1ay, 1az, 1ba, 1bb, 1bc, 1bd, 1be, 1bf, 1bg, 1bh, 1bi, 1bj, 1bk, 1bl, 1bm, 1bn, 1bo, 1bp, 1bq, 1br, 1bs, 1bt, 1bu, 1bv, 1bw, 1bx, 1by, 1bz, 1ca, 1cb, 1cc, 1cd, 1ce, 1cf, 1cg, 1ch, 1ci, 1cj, 1ck, 1cl, 1cm, 1cn, 1co, 1cp, 1cq, 1cr, 1cs, 1ct, 1cu, 1cv, 1cw, 1cx, 1cy, 1cz, 1da, 1db, 1dc, 1dd, 1de, 1df, 1dg, 1dh, 1di, 1dj, 1dk, 1dl, 1dm, 1dn, 1do, 1dp, 1dq, 1dr, 1ds, 1dt, 1du, 1dv, 1dw, 1dx, 1dy, 1dz, 1ea, 1eb, 1ec, 1ed, 1ee, 1ef, 1eg, 1eh, 1ei, 1ej, 1ek, 1el, 1em, 1en, 1eo, 1ep, 1eq, 1er, 1es, 1et, 1eu, 1ev, 1ew, 1ex, 1ey, 1ez, 1fa, 1fb, 1fc, 1fd, 1fe, 1ff, 1fg, 1fh, 1fi, 1fj, 1fk, 1fl, 1fm, 1fn, 1fo, 1fp, 1fq, 1fr, 1fs, 1ft, 1fu, 1fv, 1fw, 1fx, 1fy, 1fz, 1ga, 1gb, 1gc, 1gd, 1ge, 1gf, 1gg, 1gh, 1gi, 1gj, 1gk, 1gl, 1gm, 1gn, 1go, 1gp, 1gq, 1gr, 1gs, 1gt, 1gu, 1gv, 1gw, 1gx, 1gy, 1gz, 1ha, 1hb, 1hc, 1hd, 1he, 1hf, 1hg, 1hi, 1hj, 1hk, 1hl, 1hm, 1hn, 1ho, 1hp, 1hq, 1hr, 1hs, 1ht, 1hu, 1hv, 1hw, 1hx, 1hy, 1hz, 1ia, 1ib, 1ic, 1id, 1ie, 1if, 1ig, 1ih, 1ii, 1ij, 1ik, 1il, 1im, 1in, 1io, 1ip, 1iq, 1ir, 1is, 1it, 1iu, 1iv, 1iw, 1ix, 1iy, 1iz, 1ja, 1jb, 1jc, 1jd, 1je, 1jf, 1jg, 1jh, 1ji, 1jj, 1jk, 1jl, 1jm, 1jn, 1jo, 1jp, 1jq, 1jr, 1js, 1jt, 1ju, 1jv, 1jw, 1jx, 1jy, 1jz, 1ka, 1kb, 1kc, 1kd, 1ke, 1kf, 1kg, 1kh, 1ki, 1kj, 1kk, 1kl, 1km, 1kn, 1ko, 1kp, 1kq, 1kr, 1ks, 1kt, 1ku, 1kv, 1kw, 1kx, 1ky, 1kz, 1la, 1lb, 1lc, 1ld, 1le, 1lf, 1lg, 1lh, 1li, 1lj, 1lk, 1ll, 1lm, 1ln, 1lo, 1lp, 1lq, 1lr, 1ls, 1lt, 1lu, 1lv, 1lw, 1lx, 1ly, 1lz, 1ma, 1mb, 1mc, 1md, 1me, 1mf, 1mg, 1mh, 1mi, 1mj, 1mk, 1ml, 1mm, 1mn, 1mo, 1mp, 1mq, 1mr, 1ms, 1mt, 1mu, 1mv, 1mw, 1mx, 1my, 1mz, 1na, 1nb, 1nc, 1nd, 1ne, 1nf, 1ng, 1nh, 1ni, 1nj, 1nk, 1nl, 1nm, 1nn, 1no, 1np, 1nq, 1nr, 1ns, 1nt, 1nu, 1nv, 1nw, 1nx, 1ny, 1nz, 1oa, 1ob, 1oc, 1od, 1oe, 1of, 1og, 1oh, 1oi, 1oj, 1ok, 1ol, 1om, 1on, 1oo, 1op, 1oq, 1or, 1os, 1ot, 1ou, 1ov, 1ow, 1ox, 1oy, 1oz, 1pa, 1pb, 1pc, 1pd, 1pe, 1pf, 1pg, 1ph, 1pi, 1pj, 1pk, 1pl, 1pm, 1pn, 1po, 1pp, 1pq, 1pr, 1ps, 1pt, 1pu, 1pv, 1pw, 1px, 1py, 1pz, 1qa, 1qb, 1qc, 1qd, 1qe, 1qf, 1qg, 1qh, 1qi, 1qj, 1qk, 1ql, 1qm, 1qn, 1qo, 1qp, 1qq, 1qr, 1qs, 1qt, 1qu, 1qv, 1qw, 1qx, 1qy, 1qz, 1ra, 1rb, 1rc, 1rd, 1re, 1rf, 1rg, 1rh, 1ri, 1rj, 1rk, 1rl, 1rm, 1rn, 1ro, 1rp, 1rq, 1rr, 1rs, 1rt, 1ru, 1rv, 1rw, 1rx, 1ry, 1rz, 1sa, 1sb, 1sc, 1sd, 1se, 1sf, 1sg, 1sh, 1si, 1sj, 1sk, 1sl, 1sm, 1sn, 1so, 1sp, 1sq, 1sr, 1ss, 1st, 1su, 1sv, 1sw, 1sx, 1sy, 1sz, 1ta, 1tb, 1tc, 1td, 1te, 1tf, 1tg, 1th, 1ti, 1tj, 1tk, 1tl, 1tm, 1tn, 1to, 1tp, 1tq, 1tr, 1ts, 1tt, 1tu, 1tv, 1tw, 1tx, 1ty, 1tz, 1ua, 1ub, 1uc, 1ud, 1ue, 1uf, 1ug, 1uh, 1ui, 1uj, 1uk, 1ul, 1um, 1un, 1uo, 1up, 1uq, 1ur, 1us, 1ut, 1uu, 1uv, 1uw, 1ux, 1uy, 1uz, 1va, 1vb, 1vc, 1vd, 1ve, 1vf, 1vg, 1vh, 1vi, 1vj, 1vk, 1vl, 1vm, 1vn, 1vo, 1vp, 1vq, 1vr, 1vs, 1vt, 1vu, 1vv, 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1qc, 1qd, 1qe, 1qf, 1qg, 1qh, 1qi, 1qj, 1qk, 1ql, 1qm, 1qn, 1qo, 1qp, 1qq, 1qr, 1qs, 1qt, 1qu, 1qv, 1qw, 1qx, 1qy, 1qz, 1ra, 1rb, 1rc, 1rd, 1re, 1rf, 1rg, 1rh, 1ri, 1rj, 1rk, 1rl, 1rm, 1rn, 1ro, 1rp, 1rq, 1rr, 1rs, 1rt, 1ru, 1rv, 1rw, 1rx, 1ry, 1rz, 1sa, 1sb, 1sc, 1sd, 1se, 1sf, 1sg, 1sh, 1si, 1sj, 1sk, 1sl, 1sm, 1sn, 1so, 1sp, 1sq, 1sr, 1ss, 1st, 1su, 1sv, 1sw, 1sx, 1sy, 1sz, 1ta, 1tb, 1tc, 1td, 1te, 1tf, 1tg, 1th, 1ti, 1tj, 1tk, 1tl, 1tm, 1tn, 1to, 1tp, 1tq, 1tr, 1ts, 1tt, 1tu, 1tv, 1tw, 1tx, 1ty, 1tz, 1ua, 1ub, 1uc, 1ud, 1ue, 1uf, 1ug, 1uh, 1ui, 1uj, 1uk, 1ul, 1um, 1un, 1uo, 1up, 1uq, 1ur, 1us, 1ut, 1uu, 1uv, 1uw, 1ux, 1uy, 1uz, 1va, 1vb, 1vc, 1vd, 1ve, 1vf, 1vg, 1vh, 1vi, 1vj, 1vk, 1vl, 1vm, 1vn, 1vo, 1vp, 1vq, 1vr, 1vs, 1vt, 1vu, 1vv, 1vw, 1vx, 1vy, 1vz, 1wa, 1wb, 1wc, 1wd, 1we, 1wf, 1wg, 1wh, 1wi, 1wj, 1wk, 1wl, 1wm, 1wn, 1wo, 1wp, 1wq, 1wr, 1ws, 1wt, 1wu, 1wv, 1ww, 1wx, 1wy



|                |            |                           |                   |          |
|----------------|------------|---------------------------|-------------------|----------|
| Date<br>JUN'23 |            | Scale(s)<br>1:200<br>@ A0 | Dwg no<br>7188.02 | Rev<br>B |
| Dwn<br>KR      | Chkd<br>NC |                           |                   |          |

**BIO-DIVERSE LAWN MIX** - To be sown at a rate of 50g/M<sup>2</sup>.

**Meadowscape Pro-Species-Rich-26**  
<https://wildflowerurf.co.uk/products/meadowscapes/pro-species-rich-lawn/#species>

Available from Wildflowerurf.co.uk Tel: 01256 771222 (or similar approved)

**WILDFLOWER SEED MIX** - To be sown at a rate of 4g/M<sup>2</sup>.

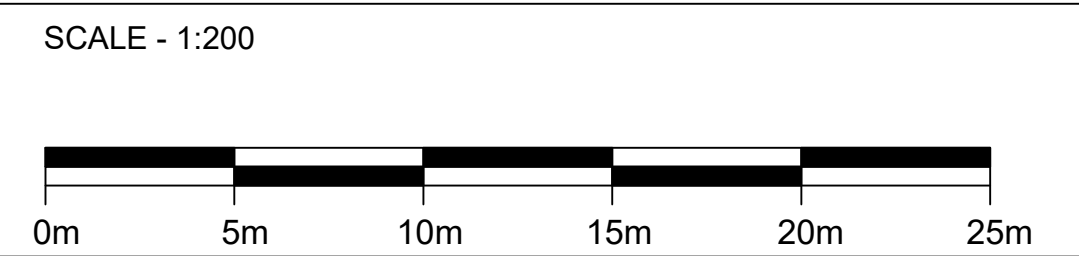
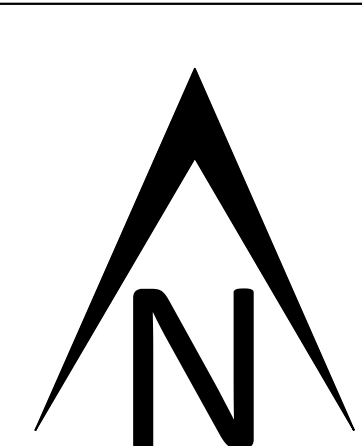
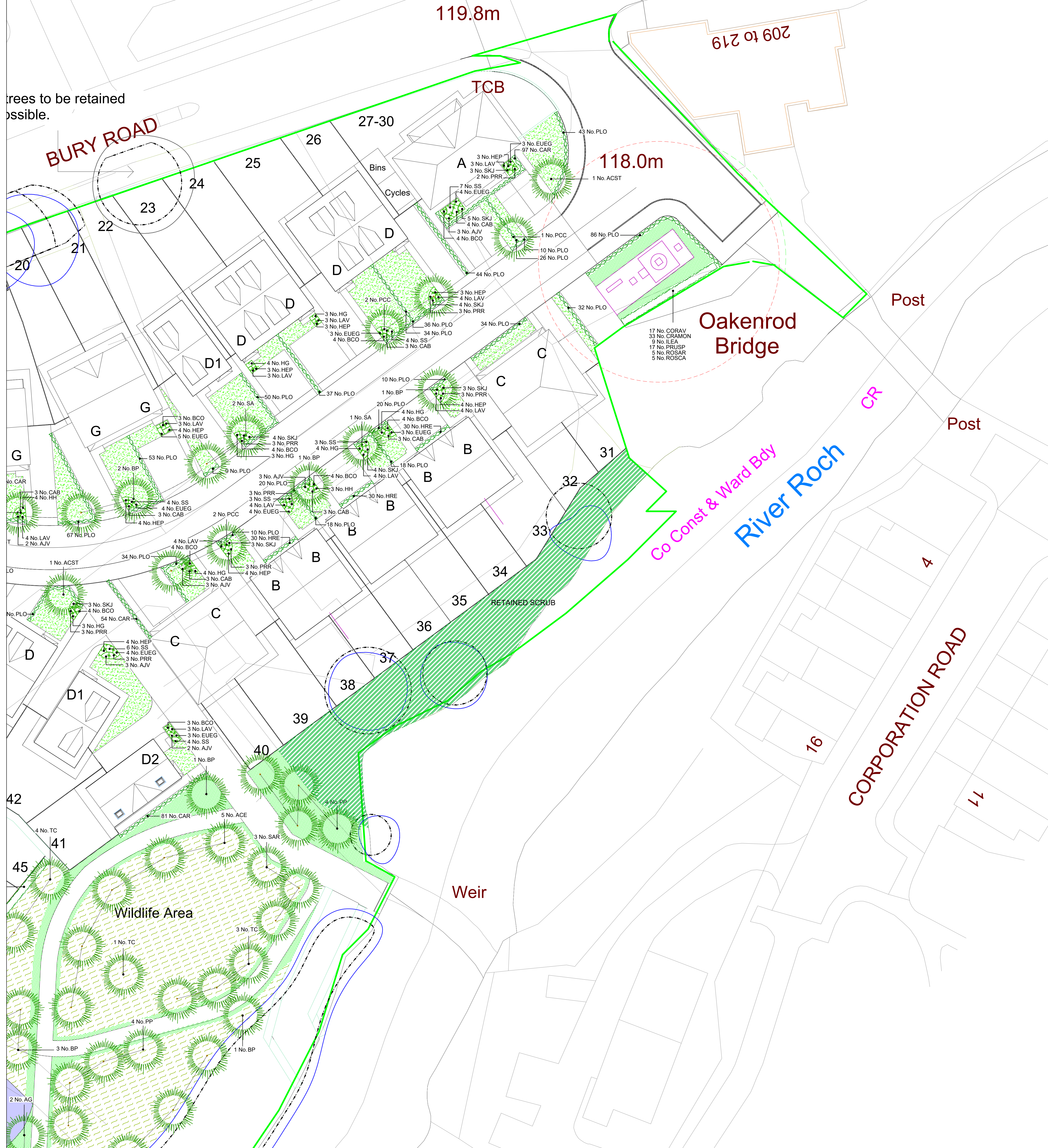
**EM2 - Standard General Purpose Meadow Mixture**  
[www.wildseed.co.uk/products/mixtures/standard-general-purpose-meadow-mixture](https://www.wildseed.co.uk/products/mixtures/standard-general-purpose-meadow-mixture)

Available from Emorgate Seeds Tel: 01553 829 028 or similar approved.  
All wildflower areas to have 1M wide close mown grass edge adjacent roads and footpaths. Seeded with grass mix A22.

**AMENITY GRASS SEED MIX** - To be sown at a rate of 50g/M<sup>2</sup>.

**A22 - Hard Wearing, Low Maintenance.**  
[www.germinalmairie.com/a22-low-maintenance](http://www.germinalmairie.com/a22-low-maintenance)

Available from Germinal GB Ltd. Tel: 01522 868714 (or similar approved)

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