

COLEG GWENT KNOWLEDGE QUARTER NEWPORT

Landscape and Ecological Management Plan (LEMP)

for

WEPCo

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THE **Landmark**
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**D denotes a Draft version*

The information which we have prepared and provided is true and has been prepared and provided in accordance with the Chartered Institute of Ecology and Environmental Management's Code of Professional Conduct. We confirm that the opinions expressed are our true and professional bona fide opinions.

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1.0 INTRODUCTION

- 1.1 This Landscape and Ecological Management Plan (LEMP), hereafter referred to as the 'Plan', has been prepared by The Landmark Practice (TLP) on behalf of WEPCo. This Plan sets out the design, future management measures, and monitoring provisions in relation to landscape and biodiversity, for the Proposed Development at land at Kingsway, Newport, NP20 1UH, hereafter referred to as 'the Site'.
- 1.2 The Landscape Masterplan, Detailed Soft Landscape and Planting Schedule are shown in **Appendices A - C**.
- 1.3 The management scheme detailed within this Plan covers provision, management, inspection, maintenance, and replacement as necessary.
- 1.4 Some of the ecological measures need to be implemented prior to, or during Site clearance/the construction phase of the Proposed Development (e.g., pre-commencement checks and sensitive timings/methods of works) and are therefore outside the scope of this Plan, which is concerned with the ecological enhancement and ongoing management of the Site, post-construction.
- 1.5 This Plan has been prepared in line with recommendations from TLP who have consulted on the development, as detailed in the Ecological Appraisal (EA) (TLP, 2026a).
- 1.6 This Plan will also function as evidence to support the Site's BREEAM UK New Construction Version 6.1 (BREEAM, 2023) Assessment.

2.0 SITE BACKGROUND AND CONTEXT

Background

- 2.1 The Proposed Development received outline planning consent in 2022 (ref: 22/0814) for the 'demolition and redevelopment of the Site for circa 54,000 square metres of flexible floorspace for educational use, or any other use within use classes a1 (shops), a2 (financial and professional services), a3 (food and drink), b1 (business), c1 (hotels), d1 (non-residential institutions) and d2 (assembly and leisure), with all matters reserved'.
- 2.2 TLP produced an Ecological Appraisal (ref: 3556_The Newport Centre Ecological Appraisal_fv) in 2022 which was supported by the following surveys:
- UK Habitat Classification Survey in June 2022
 - Protected Species Assessment June 2022
 - Preliminary Roost Assessment on buildings and trees June 2022
 - Single evening emergence bat survey on the 10th August 2022.
- 2.3 No roosting bats were recorded during the bat surveys. Recommendations were made to increase the ecological value of the Site as part of the proposals.
- 2.4 Subsequent to the planning permission, the majority of the buildings on the Site have been demolished.

Current Site Conditions

- 2.5 An Ecological Appraisal was prepared (TLP, 2026a) to inform a reserved matter planning application. The Appraisal was supported by a UK Habitat Classification (UKHab) survey

and protected species scoping survey which were undertaken on 23rd October 2025. The UKHab survey followed standard methodology published by the UK Habitat Classification Working Group 2018-2023 (The UK Habitat Classification Version 2.01, 2023 – current at the time of the survey). Each identifiable and definable land parcel was assigned a habitat (as defined by the UK Habitat Classification Version 2.01 – current at the time of the survey).

- 2.6 Preliminary Roost Assessment (PRA) of buildings and Ground Level Tree Assessment (GLTA) of trees on the Site were conducted concurrently with UKHab survey, in compliance with the Bat Conservation Trust's (BCT) Good Practice Guidelines (Collins, 2023).

Habitats

- 2.7 Habitats recorded within the footprint of the Site were:

- u1b – developed land, sealed surface
- u1b5 – buildings
- g4 – modified grassland

- 2.8 In addition, four scattered cherry (*Prunus* sp.) trees were present within hardstanding on and adjacent to Site.

Protected and Notable Species

- 2.9 The majority of habitats on Site are of negligible to low ecological value owing to their limited extent and positioning within a largely urban environment. Four trees, which will be lost to accommodate new sprinkler/hydrant/generator and new tree planting, are of moderate value but are small in extent and isolated from the wider areas by busy roads and are therefore unlikely to be important. The Site was considered to offer opportunities to support breeding birds. Other species such as foraging and commuting bats, badgers (*Meles meles*), invertebrates and hedgehogs (*Erinaceus europaeus*) may occasionally traverse the Site but, given the overall lack of vegetated habitat, it would be on an extremely irregular basis. Based on the results, no further surveys were required.
- 2.10 The Site is within the Zone of Influence (Zoi) for River Usk / Afon Wysg Special Area of Conservation (SAC) and River Usk (Lower Usk) / Afon Wysg (Wysg Isaf) Site of Special Scientific Interest (SSSI) and the Severn Estuary SAC, SPA and Ramsar. Statement to Inform Habitat Regulation Assessment (sHRA) has been prepared (TLP, 2026c), and it has been determined that in the absence of mitigation or detailed assessment there is potential for Likely Significant Effect (LSE) on the designated sites.
- 2.11 The Stage 2 Appropriate Assessment concluded that the threats and potential impacts to the Habitat Sites can be mitigated through dust control measures and water pollution measures. It is recommended that these should be secured through planning conditions.
- 2.12 The EA (TLP, 2026a) and Construction Environmental Management Plan for Biodiversity (CEMP-B) (TLP, 2026b) details the mitigation measures required to ensure there are no impacts upon the sensitive ecological features. Some of these measures need to be implemented prior to, or during Site clearance/the construction phase of the development (e.g. timing of works) and are therefore outside the scope of this Plan which is concerned with the ongoing management of the Site, post construction.

Changes to Ecological Features

- 2.13 The Proposed Development will entail the provision of a vocational college with associated infrastructure and landscaping and will result in the loss of negligible- low ecological value habitats.
- 2.14 The diversity of habitats within the Site will be greatly enhanced through incorporation of soft landscaping and inclusion of new native cultivars tree planting on ground level and within raised planters, ornamental planting within raised planters, seating with planters, rain gardens, climbers and green roofs over bin and bike stores/outbuildings. The soft landscaping scheme will include species of wildlife interest that are fruit and seed bearing or nectar rich and are of benefit to invertebrates and birds. Species included are David viburnum (*Viburnum davidii*), laurustinus 'Eve Price' (*Viburnum tinus* 'Eve Price'), Hebe 'Blue Gem' (*Hebe albicans* 'Blue Gem'), English lavender 'Hidcote' (*Lavandula angustifolia* 'Hidcote'), Geranium Rozanne (*Geranium* 'Gerwat'), dogwood 'midwinter fire' (*Cornus sanguinea*), compact guelder rose (*Viburnum opulus*) amongst others. The incorporation of species that are nectar rich will attract more insect prey and in turn enhance the ecological value of the Site for bats.
- 2.15 The Site will also be enhanced through the provision of four artificial bat boxes, six bird boxes suitable for urban species (swifts and swallows) and the inclusion of an insect hotel.

Ownership and Responsibilities

- 2.16 This Plan has been produced with BREEAM UK New Construction Version 6.1 (BREEAM, 2023) Assessment and in accordance with BS 42020:2013 (Biodiversity), supporting the BREEAM assessment, covering the first five years after project completion.
- 2.17 Implementation of this Plan will be the responsibility of the building management team for a period of five years, after which time the ongoing maintenance, management and monitoring measures will be reviewed and updated as required. The management scheme detailed within this Plan covers provision, management, inspection, maintenance and replacement as necessary. This LEMP will be a 'live' document, with reviewed iterations where required following monitoring.

3.0 SITE ANALYSIS AND CONSERVATION OBJECTIVES

Site Analysis

- 3.1 The strengths and weaknesses of the Site in terms of ecology and landscape, along with opportunities and external influences, are set out in **Table 1** below:

Table 1: Site Strengths and Weaknesses

Site Strengths	Site Weaknesses	Opportunities	External Influences
Potential occurrence of protected/notable species. Location on privately owned land brings protection against unauthorised access and damaging activities during construction.	Majority of the Site supports habitats of limited ecological value. Site is set within central Newport and is surrounded by buildings and hardstanding.	Improve the biodiversity value of the Site through new tree, shrub, rain garden planting and green roofs within the landscape scheme. Establish sensitive management regime	Locally native planting should be optimised to fit with existing landscape character.

Site Strengths	Site Weaknesses	Opportunities	External Influences
		for habitats and features to ensure longevity and benefit to wildlife. Increase sheltering, roosting and nesting opportunities for wildlife.	

Site Conservation Objectives and Rationale

- 3.2 The main conservation objectives of this Plan, and the rationale behind them, is described below. Mitigation, compensation, enhancement and monitoring measures have been included in accordance with details included within the Ecological Appraisal (TLP, 2026a).

Objective 1

- 3.3 Maintain and enhance, through habitat creation and appropriate management, the development footprint.

Rationale

- 3.4 The Site comprises predominantly hardstanding. Small sections of modified grassland and trees will be lost as a part of Proposed Development.
- 3.5 The Landscape Masterplan and Detailed Soft Landscaping propose a range of habitats within the Site (**Appendix A - B**). The proposed habitats, along with other new features, will provide a foraging, sheltering and nesting resource for a range of protected/notable species.

Objective 2

- 3.6 Ensure that mitigation and enhancement planting is subject to appropriate monitoring and aftercare throughout the 5 years covered by this Plan.

Rationale

- 3.7 Planting aftercare should adhere to the principles detailed in BS 8545:2014 (Trees: From Nursery to Independence in the Landscape) and according to the Committee for Plant Supply and Establishment (CPSE, 1995) 'Handling and establishing landscape plants'. Any new planting for mitigation or enhancement will require aftercare to ensure its longevity.

Objective 3

- 3.8 There should be no adverse effects on protected and notable species. The Site should provide breeding and foraging opportunities for a range of protected species, including bats, birds and insects.

Rationale

- 3.9 To ensure works and ongoing management are in accordance with legislative and best practice requirements for protected and notable species and support local biodiversity through the creation of new foraging habitat and nesting features.

Objective 4

- 3.10 Implement a programme of ongoing ecological monitoring to ensure the successful execution of this Plan and to inform future revisions/amendments to the Plan.

Rationale

The successful implementation of a management plan requires ongoing ecological monitoring to inform delivery of objectives and to allow revisions to be made to the management prescriptions.

4.0 MANAGEMENT METHODOLOGY

- 4.1 In conjunction with the 'Site Conservation Objectives' the Plan should provide detailed management prescriptions to outline the management methodology in order to achieve the stated objectives.
- 4.2 Management prescriptions are therefore outlined below and then summarised in **Table 2** at the end of this section. The objectives outlined above, incorporate aspects of both landscape and ecology and, as such, include some areas of overlap.

General Management Prescriptions

Construction

- 4.3 Throughout Site construction, all avoidance and mitigation measures will be implemented in-line with the recommendations within the EA (TLP, 2026a) and CEMP-B (TLP, 2026b).

Detailed Management Prescriptions

Objective 1

- 4.4 *"Maintain and enhance, through habitat creation and appropriate management, the development footprint".*

Management Prescriptions

- 4.5 **Prescription O1-1:** Soft landscape works to be undertaken at the earliest opportunity in the first planting season after construction. All planting should take place between November and April (inclusive) avoiding waterlogged and frosty conditions.
- 4.6 **Prescription O1-2:** All habitat creation and management works shall be carried out by experienced operatives holding relevant horticultural qualifications (such as RHS Level 3 or equivalent), training certificates, or under the direct supervision, on Site, of such a person. Any necessary tree works to be supervised by a qualified Arboriculturist and in accordance with BS 5837:2012 'Trees in Relation to Design, Demolition & Construction.'
- 4.7 **Prescription O1-3:** The locations of planting areas will be detailed within the approved Landscape Masterplan and Detailed Soft Landscape (**Appendix A - B**). Where feasible, seed and planting stock will be of local provenance.
- 4.8 **Prescription O1-4:** All works detailed in the approved Landscape Masterplan and Detailed Soft Landscape shall be carried out in accordance with good horticultural practice, using materials, plant and machinery appropriate to the task, undertaken in such a manner that avoids damage and/or nuisance to the Site and its surroundings.

- 4.9 **Prescription O1-5:** All plants are to be planted in accordance with British Standard 3936-4:2007, Specification for Nursery Stock, BS 4428:1989 Code of Practice for General Landscape Operations and BS 5837:2012 Trees in Relation to Construction. A Mycorrhizal inoculant to replace naturally occurring fungi in soil is to be applied to roots of bare plants before planting and backfilling to stimulate plant growth and accelerate root development. Prior to planting, ground must be made well-broken and free draining. All bare root stock to be pit planted incorporating/mixing slow-release fertiliser, 5 litres of peat free planting compost per pit and a sprinkling of Root Grow to the base of the pit, in contact with the roots.
- 4.10 **Prescription O1-6:** Advanced nursery stock semi mature trees to be planted in tree pits min. 3 x 3 x 0.9 m deep or equivalent volume where subject to site constraints, with nom. 0.3 m approved topsoil/compost mix backfill over 0.6 m approved free draining subsoil. All trees to be underground guyed using proprietary rootball securing systems. All trees to be fitted with irrigation/aeration pipe and inlet. Trees in hardstanding areas to be planted into approved engineered tree planting systems (GreenBlue Urban or equivalent) with soil cells accommodating soil volumes recommended by system suppliers for the size of proposed trees.
- 4.11 **Prescription O1-7:** All trees are to be supported with an appropriate pointed stake with Extra Heavy Standard (EHS) trees to be triple stalked.
- 4.12 **Prescription O1-8:** All climbers will be pruned to promote healthy growth and natural shape, and any dead, dying or diseased stems and suckers will be removed. Pruning will be undertaken annually or as appropriate to each species and will promote healthy growth, natural shape, keep them within bounds and prevented from stems encroaching onto the public realm.
- 4.13 **Prescription O1-9:** Install proposed Hydrosol Extensive Living Roof, seeded with the wildflower seed mix including 34 native wildflowers and four native grasses species (or suitable equivalent) according to manufacturer's instruction.
- 4.14 **Prescription O1-10:** Install proposed rain garden plant beds in accordance with engineer's SuDS strategy and design. Bio-retention/ rain garden soil mix (Filter Medium) specifically manufactured to support healthy plant growth to depths recommended by engineers will be used.

Objective 2

- 4.15 *"Ensure that mitigation and enhancement planting is subject to appropriate monitoring and aftercare throughout the 5 years covered by this Plan."*
- 4.16 All aftercare works shall be carried out in accordance with the principles detailed in BS8545:2014 (Trees: From Nursery to Independence in the Landscape) and CPSE '*Handling and establishing landscape plants*', using materials, plant and machinery appropriate to the task, undertaken in such a manner that avoids damage and/or nuisance to the Site and its surroundings. Locally appropriate native species shall be used where appropriate, as shown on the approved Detailed Soft Landscape.

Management Prescriptions

- 4.17 **Prescription O2-1:** Water all new planting during prolonged dry spells to prevent plant failures (during first 2 years following planting). Water the full depth of soil evenly and without damaging or displacing plants or soil. This includes Hydrosol Extensive Living Roof.

- 4.18 **Prescription O2-2:** Maintenance operations will include edge trimming, leaf/litter removal and moss/weed removal.
- 4.19 **Prescription O2-3:** Check stakes, shelters and ties and adjust if needed, in summer and winter over the first five years. Remove stakes and shelters when no longer required (i.e., after 5 years). Prune dead, damaged or dying branches.
- 4.20 **Prescription O2-4:** Inspect the new planting scheme regularly, e.g., once per month, during the first year after planting, then once per year in autumn. Dead or dying plants should be recorded and replaced in the next winter planting season with others of similar size and same species.
- 4.21 **Prescription O2-5:** Compost and/or slow-release fertiliser (4:19:10) will be spread annually in early March in the first three years after planting or replanting after defect replacements.
- 4.22 **Prescription O2-6:** Plants will be pruned annually to remove any dead, dying or diseased wood and suckers to promote healthy growth and a natural shape. Plants overhanging roads or paths will be trimmed back annually and more frequently, if required, and in accordance with best practice per species.
- 4.23 **Prescription O2-7:** A minimum of 75 mm of wood bark mulch will be maintained in newly planted shrub planting beds and at the base of each tree in all soft landscaped areas at a diameter of 1.2 m. Free drainage approved soil mix with 75 mm deep gravel mulch will be maintained in rain garden plant beds.
- 4.24 **Prescription O2-8:** Avoid the use of herbicides, hand pulling of weed species should be used if possible. Herbicides should only be applied to spot-treat or weed-wipe for the control of injurious weeds or initially to control undesirable species such as dock (*Rumex* sp.), thistles (*Cirsium* sp.) and nettle (*Urtica* sp.).
- 4.25 **Prescription O2-9:** To maintain diversity of the flora, if access allows, one light cut of the vegetation on the Hydrosol Extensive Living Roof in late autumn removing all cuttings will be undertaken. Occasional weeding will be required where necessary to regulate encroachment from windblown weeds and grasses. A spring cut may also be required if the grasses become too dominant.
- 4.26 **Prescription O2-10:** If access allows, each spring 25g/m² dressing of Osmocote Exact with the formula NPK 15-9-9 slow-release organic fertiliser will be applied to the vegetated surfaces on the green roof. Fertiliser should be applied by hand spreader to ensure even coverage.

Objective 3

- 4.27 *"There should be no adverse effects on protected and notable species. The site should provide nesting and/or foraging opportunities for a range of protected species, including bats, birds and invertebrates."*

Management Prescriptions

- 4.28 **Prescription O3-1:** New nesting opportunities for a range of bat, bird and insect species will be delivered through the provision of variously designed artificial boxes/nests, which will be installed on the college building and grounds (locations and examples are shown in **Figure 2**). These will be installed under the supervision of a suitably qualified ecologist.

- 4.29 Bat boxes include 4 no. Vivara Pro Built-In Woodstone Bat Box (or suitable equivalent). Four bat boxes will be positioned at height of 4 m, near the eaves, facing new proposed planters including trees and green roofs, avoiding well-lit locations. They will be positioned on the south-western elevation of the building which is sheltered from strong winds and direct sunlight.
- 4.30 Bird boxes include 6 no. Vivara Built-In Woodstone Swift Box-small (or suitable equivalent). Six bird boxes will be positioned at height of 4 m, near the eaves adjacent to new proposed rain gardens, climbers, trees and green roofs. They will be positioned on the eastern elevation, out of the reach of predators and in the shaded sections of building avoiding direct sunlight and heavy rain.
- 4.31 The insect hotel will include 1 no. Extra-Large 'Corsica' Bee & Insect Hotel (or suitable equivalent). This design provides permanent roosting and nesting solutions for a range of species and requires annual maintenance. Insect hotel will be located within rain garden, adjacent to green roof, facing south, in a warm sunny spot, at least 1-1.5 m from ground.

Objective 4

- 4.32 *"Implement a programme of ongoing ecological monitoring to ensure the successful execution of this Plan and to inform future revisions/amendments to the Plan."*
- 4.33 Monitoring is crucial to ensure that the Proposed Development will result in valuable long-term benefits to wildlife and to measure the success of the proposed ecological enhancements. The Plan is to be managed as a 'live' document and the prescriptions provided can be altered if required. This initial iteration covers the first five years of operation. Upon completion of this period, the success of the management regime is to be assessed and reviewed, with management prescriptions revised, as necessary, in the next Plan iteration.
- 4.34 Key monitoring indicators will include:
- Health, structure and diversity of new habitats and planting; and
 - Condition of enhancement features –bat/bird/insect boxes.

Management Prescriptions

- 4.35 **Prescription O4-1:** Upon completion of initial 5 years of management, develop Management Plan for this Site for an additional 5 years. Ideally, the Plan should be adopted for the lifetime of the development.
- 4.36 **Prescription O4-2:** Health, structure and diversity of vegetation (existing and new) to be assessed 5 years following implementation of the planting to allow time for establishment (maintenance tasks will see to the care and management over this period, to be completed as described above). This will inform management requirements and targets for improvements on this.

CDM Regulations

- 4.37 A health and safety method statement will be agreed between the client and contractor regarding the types of maintenance machinery and chemicals to be used on Site.
- 4.38 CDM risk assessment for the proposed bat and bird boxes and insect nests are included in **Figure 2**. This should be reviewed by the client/developer to ensure that the Health and

Safety requirements or Construction Design and Management (CDM) regulations are considered.

Table 2: Summary and timing of management prescriptions

Management Objective	Management Prescription	Management Prescription Detail	Seasonal Requirement	Frequency	First Five Years				
					Y1	Y2	Y3	Y4	Y5
<u>Objective 1</u> Maintain, and enhance, through appropriate management the development area and retained vegetation.	O1-1	Soft landscape works to be undertaken at the earliest opportunity in the first planting season after construction. All planting should take place between November and April (inclusive) avoiding waterlogged and frosty conditions.	November – April (inclusive)	Year 1	✓				
	O1-2	All habitat creation and management work to be carried out by experienced operatives holding relevant horticultural qualifications/ training certificates.	N/A	Year 1	✓				
	O1-3	The locations of planting areas are detailed within the Landscape Masterplan, Detailed Soft Landscape (Austin-Smith:Lord, 2026a and b) as detailed in Appendix A - B . Where feasible, native planting stock will be of local provenance.	November – April (inclusive)	Year 1	✓				
	O1-4	All works detailed in the approved Landscape Masterplan and Detailed Soft Landscape shall be carried out in accordance with good horticultural practice, using materials, plant and machinery appropriate to the task, undertaken in such a manner that avoids damage and/or nuisance to the Site and its surroundings.	N/A	Year 1	✓				

Management Objective	Management Prescription	Management Prescription Detail	Seasonal Requirement	Frequency	First Five Years				
					Y1	Y2	Y3	Y4	Y5
	O1-5	All plants are to be planted in accordance with British Standard 3936:1992 (Nursery stock - Specification for trees and shrubs), BS 3936-10:1990 (Nursery stock - Specification for ground cover plants), BS 3936-3:1990 (Nursery stock - Specification for fruit plants). A mycorrhizal inoculant to replace naturally occurring fungi in soil is to be applied to roots of bare plants before planting and backfilling to stimulate plant growth and accelerate root development.	N/A	Year 1	✓				
	O1-6	Advanced nursery stock semi mature trees to be planted in tree pits min. 3 x 3 x 0.9 m deep or equivalent volume where subject to site constraints, with nom. 0.3 m approved topsoil / compost mix backfill over 0.6 m approved free draining subsoil. All trees to be underground guyed using proprietary root ball securing systems. All trees to be fitted with irrigation / aeration pipe and inlet. Trees in hardstanding areas to be planted into approved engineered tree planting systems (GreenBlue Urban or equivalent) with soil cells accommodating soil volumes recommended by system suppliers for the size of proposed trees.	N/A	Year 1	✓				
	O1-7	All trees are to be supported with an appropriate pointed stake with Extra Heavy Standard (EHS) trees to be triple stalked.	N/A	Year 1	✓				
	O1-8	All climbers will be pruned to promote healthy growth and natural shape, and any dead, dying diseased stems and suckers will be removed. Pruning will be undertaken annually or as appropriate to each species and will promote healthy growth, natural shape, keep them within bounds and prevented from stems encroaching onto the public realm.	N/A	Year 1	✓				

Management Objective	Management Prescription	Management Prescription Detail	Seasonal Requirement	Frequency	First Five Years				
					Y1	Y2	Y3	Y4	Y5
	O1-9	Install proposed green roof – Hydrosol Extensive Living Roof with the seeded with the wildflower seed mix including 34 native wildflowers and four native grasses species (or suitable equivalent) according to manufacturer instruction.	N/A	Year 1	✓				
	O1-10	Install proposed rain garden plant beds in accordance with engineers SuDS strategy and design.	N/A	Year 1	✓				
<u>Objective 2</u> Ensure that mitigation and enhancements are subject to appropriate monitoring and aftercare.	O2-1	Water all new planting during prolonged dry spells, to prevent plant failures (during first 2 years following planting). This includes the Hydrosol Extensive Living Roof.	Summer	Year 1 & 2	✓	✓			
	O2-2	Annual weeding, edge trimming, leaf/litter removal and moss removal.	March-October	Annually	✓	✓	✓	✓	✓
	O2-3	Check stakes, shelters and ties and adjust if needed, in summer and winter. Remove stakes and shelters when no longer required (i.e., after 3 years). Prune dead, damaged or dying branches.	Summer & winter	Annually	✓	✓	✓	✓	✓
	O2-4	Inspect and record dead or dying plants and replace in the next winter planting season.	Autumn & winter	Annually	✓	✓	✓	✓	✓
	O2-5	Application of slow-release fertiliser.	March	Years 1 - 3	✓	✓	✓		
	O2-6	Formative pruning and trimming back from roads and footpaths, if required.	October - February	Annually	✓	✓	✓	✓	✓
	O2-7	A minimum of 75 mm of wood bark mulch will be maintained in newly planted shrub planting beds and at the base of each tree in all soft landscaped areas at a diameter of 1.2 m. Free drainage approved soil mix with 75 mm deep gravel mulch will be maintained in rain garden plant beds.	One check between March and October	Annually	✓	✓	✓	✓	✓
	O2-8	Avoid the use of herbicides, hand pulling of weed species should be used if possible. Herbicides should only be applied to spot-treat or weed-	N/A	Annually	✓	✓	✓	✓	✓

Management Objective	Management Prescription	Management Prescription Detail	Seasonal Requirement	Frequency	First Five Years				
					Y1	Y2	Y3	Y4	Y5
		wipe for the control of injurious weeds or initially to control undesirable species such as dock, thistles and nettle.							
	O2-9	In the late autumn one light cut of the vegetation on Hydrosol Extensive Living Roof should be undertaken. Arisings should be removed. Occasional weeding will be required where necessary to regulate encroachment from windblown weeds and grasses. A spring cut may also be required if the grasses become too dominant (idf access allows).	Late autumn & spring (if required)	Annually	✓	✓	✓	✓	✓
	O2-10	Each spring 25g/m ² dressing of Osmocote Exact with the formula NPK 15-9-9 slow-release organic fertiliser will be applied to the vegetated surfaces on green roof will be applied to the vegetated surfaces on green roof by hand spreader to ensure even coverage (if access allows).	Spring	Annually	✓	✓	✓	✓	✓
Objective 3 There should be no adverse effects on protected and notable species. The Site should provide nesting and/or foraging opportunities for protected species including birds and bats.	O3-1	Inclusion of integrated wildlife boxes onto the new college building and grounds as shown on Figure 2 . 4 no. integrated bat boxes in the new buildings will be installed; to face south-west at a height of at least 4 m, near the eaves, close to proposed planters including trees and green roofs, avoid well-lit locations 6 no. integrated bird boxes will be installed in the new buildings; to face east, near the eaves, close to rain gardens, climbers, trees and green roofs, and be erected out of the reach of predators and at least 4 m high on publicly accessible sites.	N/A	Year 1	✓				
		1 no. insect hotel, located within the rain garden, adjacent to green roof; to face south, in a warm sunny spot, at least 1-1.5 m from ground level.	N/A	Year 1	✓	✓	✓	✓	✓

Management Objective	Management Prescription	Management Prescription Detail	Seasonal Requirement	Frequency	First Five Years				
					Y1	Y2	Y3	Y4	Y5
<u>Objective 4</u> Implement a programme of ongoing ecological monitoring to ensure the successful implementation of this management plan and to inform future revisions/amendments to the plan	O4-1	Upon completion of initial 5 years of management, develop Management Plan for this Site for an additional 5 years. Ideally, the Plan should be adopted for the lifetime of the development.	N/A	Year 5					✓
	O4-2	Health, structure and diversity of vegetation (existing and new) within retained and enhanced habitats to be assessed 5 years following implementation of the planting to allow time for establishment.	May-August	Year 5					✓

REFERENCES

Austin-Smith:Lord (2026a). Landscape Masterplan. Drawing Ref: NE0101-ASL-00-ZZ-DR-L-06901-P01

Austin-Smith:Lord (2026b). Detailed Soft Landscape. Drawing Ref: NE0101-ASL-00-ZZ-DR-L-06904-P01

Austin-Smith:Lord (2026c). Planting Schedule Drawing Ref: NE0101-ASL-00-XX-SH-L-06103-P01

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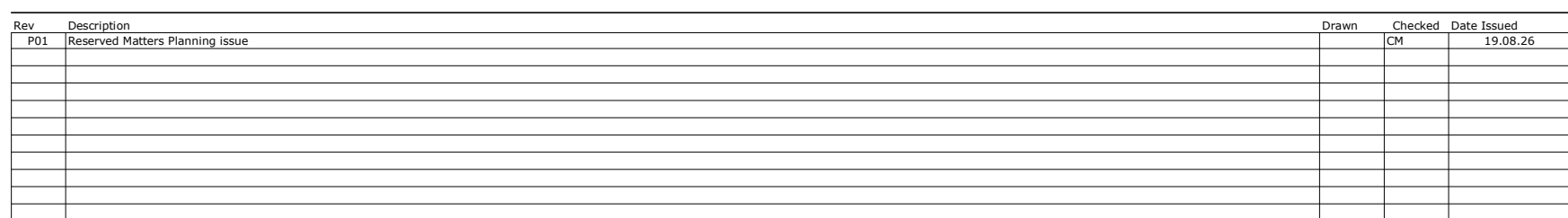
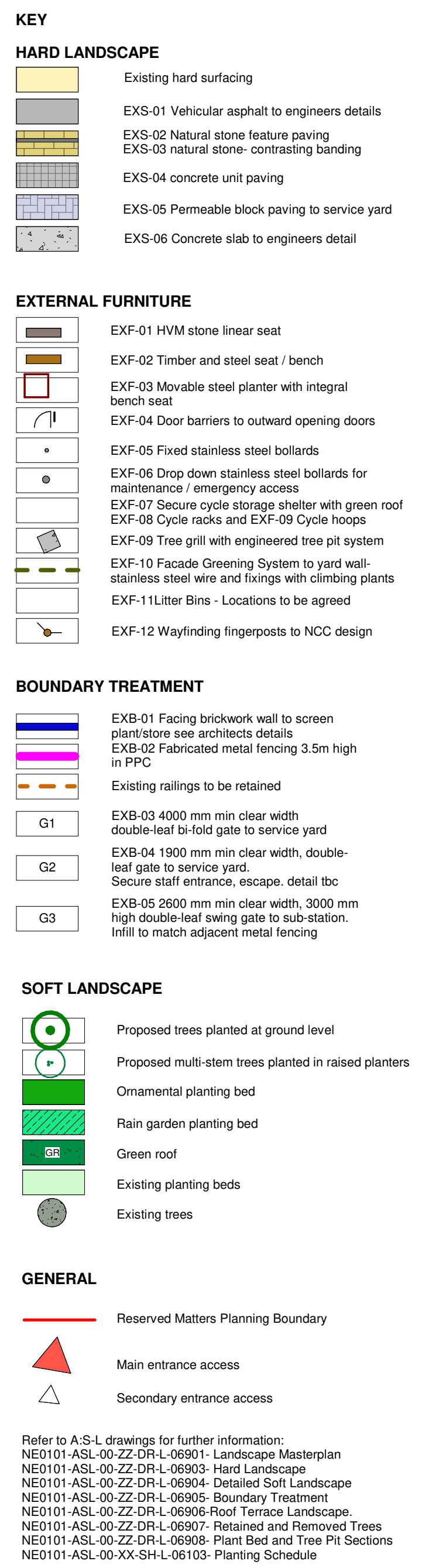
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APPENDIX A: LANDSCAPE MASTERPLAN



Drawn	GC	Austin-Smith:Lord Ltd Architects Designers Planners
Date	JULY 26	Landscape Architects 18 Park Place Cardiff CF10 3DQ t +44 (0)2920 225 208 e cardiff@austinsmithlord.com
Scale @ A1	1 : 250	
Status	A2	
	PLANNING	Drawings and models powered by Austin-Smith:Lord Ltd BIM using Autodesk Revit

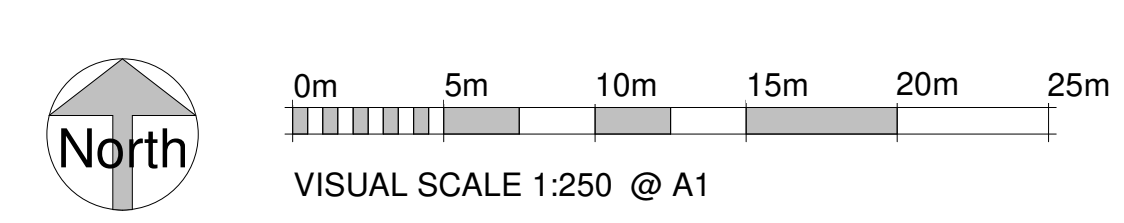
Job No.	Drawing No.	Revision	P01
324055	NE0101-ASL-00-ZZ-DR-L-06901		

APPENDIX B: DETAILED SOFT LANDSCAPE



- SOFT LANDSCAPE**
- Proposed trees planted at ground level
 - Proposed multi-stem trees planted in raised planters
 - Ornamental planting bed
 - Rain garden planting bed
 - Green roof
 - Existing planting beds
 - Existing trees
- GENERAL**
- Main entrance access
 - Secondary entrance access

Refer to A-S-L drawings for further information:
NE0101-ASL-00-ZZ-DR-L-06901 - Landscape Masterplan
NE0101-ASL-00-ZZ-DR-L-06903 - Hard Landscape
NE0101-ASL-00-ZZ-DR-L-06904 - Detailed Soft Landscape
NE0101-ASL-00-ZZ-DR-L-06905 - Boundary Treatment
NE0101-ASL-00-ZZ-DR-L-06906 - Roof Terrace Landscape
NE0101-ASL-00-ZZ-DR-L-06907 - Retained and Removed Trees
NE0101-ASL-00-ZZ-DR-L-06908 - Plant Bed and Tree Pit Sections
NE0101-ASL-00-XX-SH-L-06103 - Planting Schedule



Rev.	Description	Drawn	Checked	Date Issued
001	Revised Masterplan Planning Issue	GC	GC	13.09.26

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Drawn GC
Date JULY 26
Scale @ A1 1 : 250
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Austin-Smith:Lord
Project Newport Knowledge Quarter

Description Planning - Detailed Soft Landscape

Job No.	Drawing No.	Revision	P01
324055	NE0101-ASL-00-ZZ-DR-L-06904		

APPENDIX C: PLANTING SCHEDULE

PLANTING SCHEDULE

PLANT MIX A

Quantity	Abbrev.	Botanical Name	Height cm	Pot size	Specification	Density (/m ²)	Mix %
72	ArA	Ajuga reptans 'Atropurpurea'		2L		6	10
60	BB	Bergenia 'Ballawley'		2L		5	10
48	CrR	Ceanothus thyrsiflorus 'Repens'	30-40	3L	Bushy; 5 brks	4	10
72	CAP	Choisia 'Aztec Pearl'	30-40	3L	Bushy; 5 brks	4	15
36	DcG	Deschampsia cespitosa 'Goldtau'		2L		3	10
36	EAB	Escallonia 'Apple Blossom'	40-60	3L	Bushy; 5 brks	3	10
60	GmlV	Geranium macrorrhizum 'Ingwersens Variety'		2L	Bushy; 5 brks	5	10
72	HBG	Hebe 'Blue Gem'	20-40	3L	Bushy; 5 brks	4	15
36	Vd	Viburnum davidii	30-40	5 - 7.5L	Bushy; 3 brks	3	10

PLANT MIX B

Quantity	Abbrev.	Botanical Name	Height cm	Pot size	Specification	Density (/m²)	Mix %
16	Al	Anemanthele lessoniana		2L		5	10
16	BBW	Bergenia ' Bressingham White'		2L		5	10
19	BS	Brachyglottis 'Sunshine'	30-40	3L	Bushy; 5 brks	4	15
13	HRE	Hebe 'Red Edge'	30-40	5 - 7.5L	Bushy;7 brks	4	10
14	PfA	Potentilla fruticosa 'Abbotswood'	60-100	5 -7.5L	Bushy; 5 brks	3	15
13	PRC	Pyracantha ' Red Cushion'	30-40	3L	Bushy; 5 brks	4	10
13	Shh	Sarcococca hookeriana var. humilis	20-25	3L	Bushy 6 brks	4	10
13	SjLP	Skimmia japonica 'Little Princes'	30-40	5L	Bushy; 4 brks	3	10
13	VEP	Viburnum 'Eve Price'	30-40	3L	Bushy; 4 brks	4	10

PLANT MIX C

Quantity	Abbrev.	Botanical Name	Height cm	Pot size	Specification	Density (/m²)	Mix %
33	CcRP	Cotinus coggygia ' Royal Purple'	40-60	5 - 7.5L	Branched; 4 brks	2	10
98	Hr	Hebe rakaiensis	30-40	3L	Bushy; 7 brks	4	15
98	Hm	Hypericum moserianum	20-30	2L	Bushy; 5 brks	4	15
82	LaH	Lavandula angustifolia 'Hidcote'	20-30	5L	Bushy; 7 brks	5	10
33	MYD	Miscanthus 'Yakushima Dwarf'		5L		2	10
66	PBE	Philadelphus 'Belle Etoile'	30-40	3L	Branched; 4 brks	4	10
66	Ss	Sedum spectabile		3L		4	10
98	SbSC	Stachys byzantina 'Silver Carpet'		2L		6	10
49	SjLP	Spirea japonica 'Little Princess'	30-40	5L	Bushy; 3 brks	3	10

RAIN GARDEN MIX A

Quantity	Abbrev.	Botanical Name	Pot size	Specification	Density (/m²)	Mix %
105	AhHJ	Anemone x hybrida 'Hörine Jobert'	2L	Full pot	4	10
197	AfM	Aster x frikartii 'Monch'	2L	Full pot	5	15
52	CaKF	Calamagrostis x acutifolia 'Karl Foester'	5L	Full pot	2	10
118	CsMF	Cornus sanguinea 'Midwinter Fire'	3L	40-60 branched 3 breaks	3	15
157	OIWB	Oenothera lindheimeri 'Whirling Butterflies'	2L	Full pot	4	15
105	Pr	Phlomis russeliana	2L	Full pot	4	10
197	RG	Rudbeckia 'Goldsturm'	2L	Full pot	5	15
105	VoC	Viburnum opulus 'Compactum'	2L	30-40 bushy 4 brks	4	10

RAIN GARDEN MIX B

Quantity	Abbrev.	Botanical Name	Pot size	Specification	Density (/m²)	Mix %
59	Am	Alchemilla mollis	2L	Full pot	4	15
74	BB	Bergenia 'Ballawley'	2L	Full pot	5	15
39	CmID	Carex morrowii 'Ice Dance'	3L	Full pot	4	10
74	GR	Geranium 'Rozeanne'	2L	Full pot	5	15
29	Or	Osmunda regalis	3L	Full pot	3	10
49	Tc	Tiarella cordifolia	2L	Full pot	5	10
44	Vd	Viburnum davidii	5 - 7.5L	30-40	3	15
29	VoC	Viburnum opulus 'Compactum'	5 - 7.5L	bushy 4 brks	3	10

TREES

Quantity	Abbrev.	Botanical Name	Girth/ Dia. cm	Height cm	Root Zone	Specification
2	CbFF	Carpinus betulus 'Frans Fontaine'	20-25	500-550	RB	3x; Semi-mature; clear stem minimum 200cm
1	PU	Prunus 'Umineko'	20-25	500-550	RB	3x; Semi-mature; clear stem minimum 200cm
2	TcGS	Tilia cordata 'Green Spire'	20-25	500-550	RB	3x; Semi-mature; clear stem minimum 200cm

MULTISTEM SPECIMENS IN PLANTERS

Quantity	Abbrev.	Botanical Name	Girth/ Dia. cm	Height cm	Root Zone	Specification
6	AaRH (MS)	Amelanchier arborea 'Robin Hill' (MS)	4-5 stems	300-350	RP	Multi-stem specimens; 4-5 stems from base; well balanced; container grown;

RAIN GARDEN (SuDS) TREES

Quantity	Abbrev.	Botanical Name	Girth/ Dia. cm	Height cm	Root Zone	Specification
8	AcE	Acer campestre 'Elsrijk'	25-30	500-550	RB	4x; Semi-mature; clear stem minimum 200cm
2	LsSS	Liquidambar styraciflua 'Slender Silhouette'	25-30	500-550	RB	4x; Semi-mature; clear stem minimum 200cm

CLIMBING PLANTS (Facade Greening System)

Quantity	Abbrev.	Botanical Name	Height cm	Root Zone	Specification	
7	CmE	Clematis montana 'Elizabeth'	100-150	10 Litre container	Caned, several shoots. 5 breaks	
7	CJ	Clematis armandii	100-150	10 Litre container	Caned, several shoots. 5 breaks	
7	LpGT	Lonicera periclymenum 'Graham Thomas'	100-150	10 Litre container	Caned, several shoots. 5 breaks	
7	Pc	Passiflora coerulea	100-150	10 Litre container	Caned, several shoots. 5 breaks	
7	VB	Vitis 'Brant'	100-150	10 Litre container	Caned, several shoots. 5 breaks	

ROOF TERRACE PLANTERS Plant Mixes

Quantity	Abbrev.	Botanical Name	Height cm	Pot size	Specification	Density (per m²)	Mix %
6	Al	Anemanthele lessoniana		2L		5	20
6	BBW	Bergenia 'Bressingham White'		2L		5	20
6	GR	Geranium 'Rozanne'		3L		5	20
6	LH	Lavandula 'Hidcote'	20-30	5L	Bushy; 7 brks	5	20
6	Sp	Sedum spectabile		3L		5	20

ROOF TERRACE PLANTERS Specimens

Quantity	Abbrev.	Botanical Name	Height cm	Pot size	Specification	Density (per lm)
1	Ms	Magnolia stellata	150-175	45L	Branched 5 breaks	1
1	Bp	Betula pendula	175-200	45L	2x Multistem bushy 3 stems min	1

PLANTING NOTES

General

- All tree setting out shall be agreed with the Landscape Architect on site.
- All current relevant British Standards will apply.
- Planting will not be undertaken during waterlogged or frost conditions.
- Appropriate root barriers are to be installed where planting could conflict with underground services.

Soils

- All imported topsoil shall comply with BS3882:2015 (Loam or Sandy Loam) and shall be approved by the CA.
- All subsoil within shrub planting areas shall comply with BS8601:2013 and be free draining. Cultivate to alleviate any compaction prior to topsoiling.

Planting

- All plants shall conform to BS3936:1992 and planting operations shall be carried out in accordance with the relevant sections of BS 8545:2014 and BS4428:1989.
- Compost and slow release fertiliser to be incorporated /mixed into backfill material (topsoil).
- All planting beds (except rain gardens) to have 300mm approved topsoil to BS3882:2015, over 300mm approved sub-soil to BS8601:2013.
- Plants to be planted as indicated on the layout plan with groups of same species in drifts of numbers between 7 to 15.
- 75mm of ornamental grade bark mulch shall be applied to each planting bed, except the rain gardens which will be mulched with approved gravel or aggregate subject to samples.
- Larger plants to be planted to the rear or centre of planting beds, with smaller plants to the front or edges

Maintenance

- All planted areas shall be subject to a maintenance programme, which will include the replacement of failed plants at the time of practical completion and/or within the next available planting season.

Trees

- Advanced nursery stock semi mature trees to be planted in tree pits min. 3000 x 3000 x 900mm deep or equivalent volume where subject to site constraints, with nom. 300mm approved topsoil / compost mix backfill over 600mm approved free draining subsoil as above.
- All trees to be underground guyed using proprietary rootball securing systems
- All trees to be fitted with irrigation / aeration pipe and inlet.
- Trees in hard landscape areas to be planted into approved engineered tree planting systems (E.g GreenBlue Urban) with soil cells accommodating soil volumes recommended by system suppliers for the size of proposed trees

Rain gardens

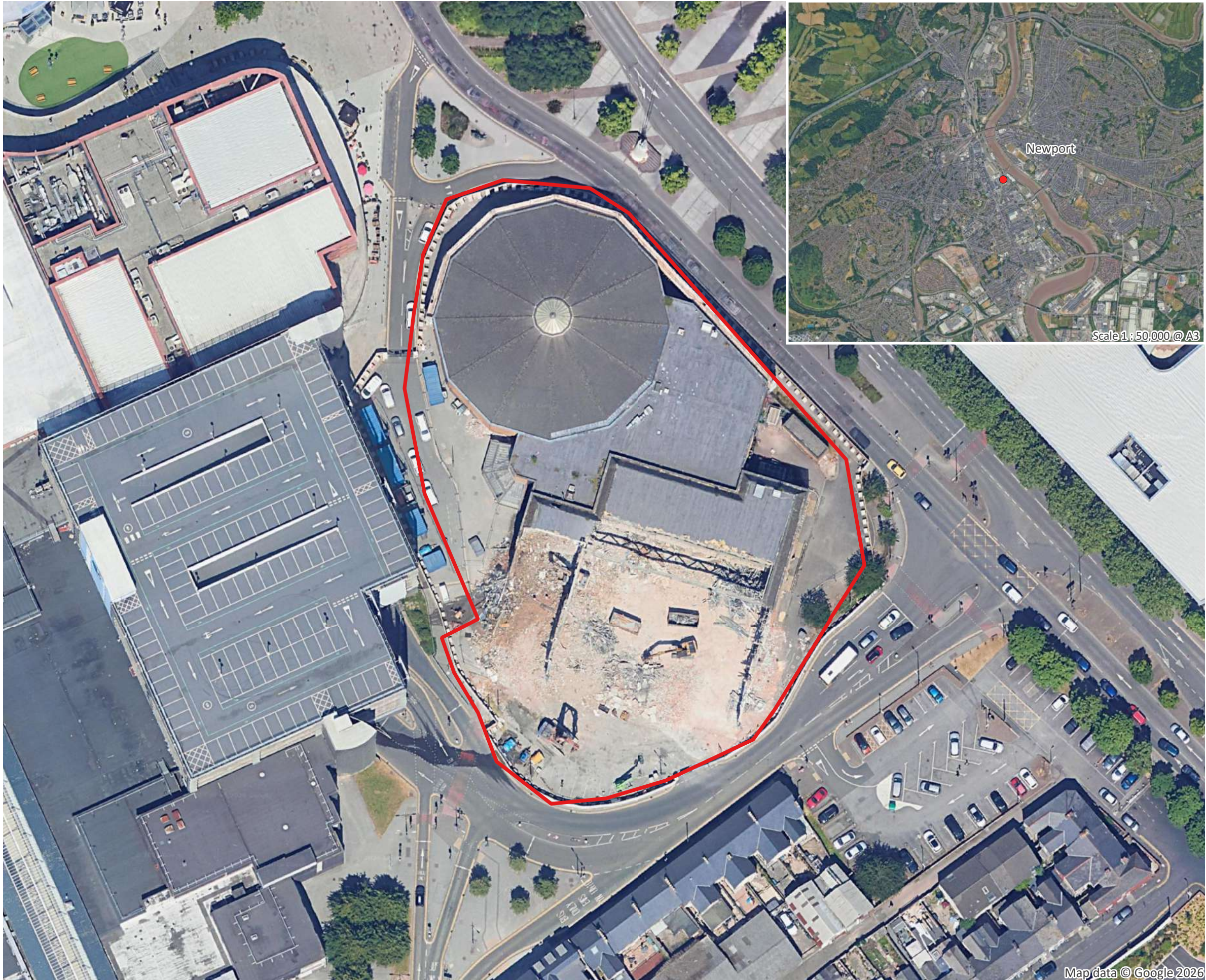
- Rain garden plant bed construction in accordance with engineers SuDS strategy and details. Beds to be provided with proprietary bio-retention/ rain garden soil mix (Filter Medium) specifically manufactured to support healthy plant growth to depths recommended by engineers.

[illegible]

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	Date	JULY 26	
	Scale @ A2		
	Status	A2 PLANNING	Drawings and models powered by Austin-Smith-Lord Ltd BIM using Autodesk Revit

Austin-Smith:Lord									
Project Newport Knowledge Quarter									
Description Planning - Planting Schedule									
Job No.	Drawing No.	Revision	P01	—	—	—	—	—	—
324055	NE0101-ASL-00-XX-SH-L-06103								

FIGURES



Legend:



Site location



Site boundary

0 10 20 m

Scale 1 : 750 @ A3

N
△

COLEG GWENT KG

FIGURE 1
Site Location

THE Landmark
PRACTICE

1 - 2 Theynes Court, Long Ashton Business Park, Yanley Lane, Bristol BS41 9LB
T: +44 (0)117 923 0455 E: enquiries@thelandmarkpractice.com
www.thelandmarkpractice.com

Drwn: GM Chkd: SR Auth: SR Date: 3 Aug 26



Legend:

- Site boundary
- 6 no. Vivara Pro Built-In Woodstone Swift Box - small
- 1 no. Extra-large 'Corsica' Bee & Insect Hotel
- 4 no. Vivara Pro Build-In Woodstone Bat Box

Not to scale

N
△

COLEG GWENT KQ

FIGURE 1
Ecological Enhancement and Mitigation
Strategy

THE Landmark
PRACTICE

1 Theynes Court, Long Ashton Business Park, Yanley Lane, Bristol BS41 9LB
T: +44 (0)117 923 0455 E: enquiries@thelandmarkpractice.com
www.thelandmarkpractice.com

Drawn: WR Checked: KS Date: 21 Aug 26



Bird box
Vivara Pro Built-In WoodStone® Swift Box

Will be integrated into the wall of the building at a minimum of 4m height, facing east, adjacent to vegetation, avoiding strong winds, and providing some shade throughout the day and the wettest winds.

Specification:
External Dimensions: 31cm x 17cm x 17cm (L x W D)
Weight: 3.65kg
Quantity: 6no.
This bird box is made from WoodStone®, a wood-concrete material. The box offers long-term protection from predators and helps buffer the nest chamber against temperature extremes. Once installed, no maintenance is required.



Bat box
Vivara Pro Built-In WoodStone® Bat Box

Will be integrated into the wall of the building at a 4m elevation, facing south-west, away from artificial light sources, sheltered from strong winds, facing vegetation and receiving some sunlight.

Specification:
External Dimensions: 50cm x 21cm x 15cm (H x W x D)
Weight: 5.6 kg
Quantity: 4no.
This bat box is made from WoodStone®, wood-concrete material, and plywood with removable side panels. The box is breathable so no condensation will occur and it maintains a consistent temperature inside which is suitable for roosting bats. Once installed, no maintenance is required.



Insect hotel
Extra-Large 'Corsica' Bee & Insect Hotel
Will be installed within the rain garden adjacent to the green roof; facing south, in a warm sunny location at least 1-1.5m above ground.

Specification:
External Dimensions: 117cm x 76.5cm x 26.5cm (H x W x D)
Weight: 41kg
Quantity: 1no.
This bee & insect hotel is made from 100% certified sustainable wood and offers habitat for a variety of insects. It requires annual maintenance of applying wildlife-firendly preservatives and checking for deteriortion and stability.

N.B A suitable equivalent can be sourced if specified models are not available.

COLEG GWENT KQ

FIGURE 2
Bat Box, Bird Box, and Bee & Insect Hotel
Specification

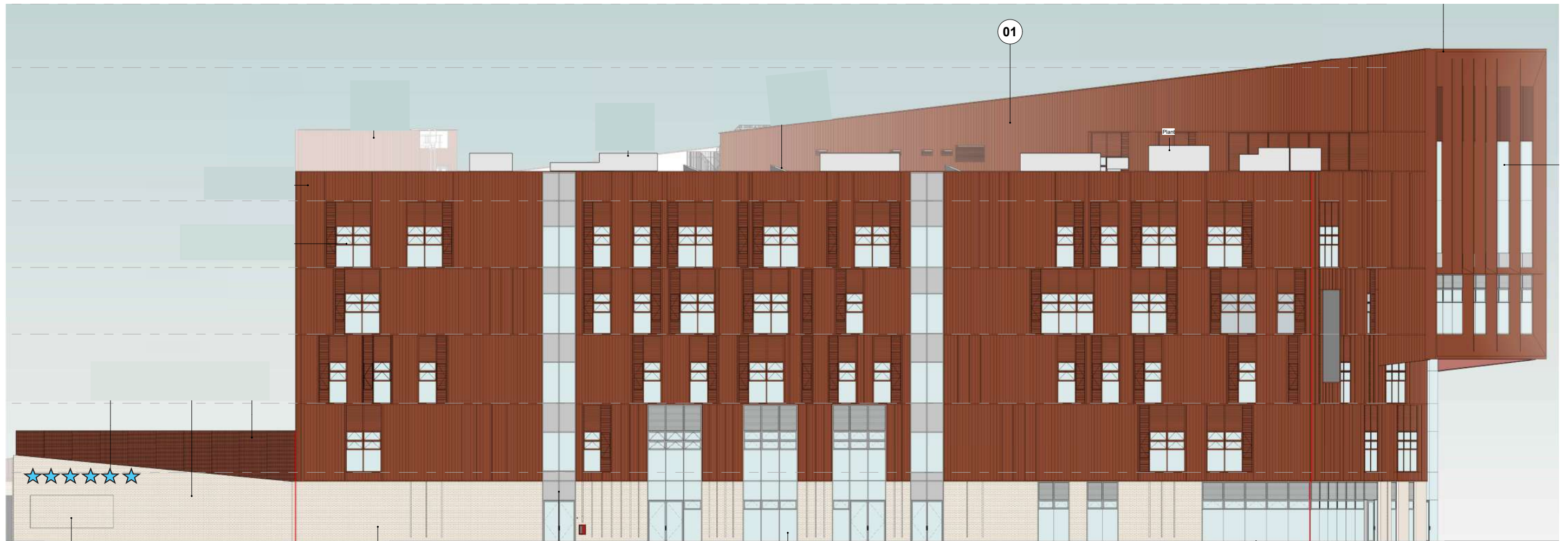


1 Theynes Court, Long Ashton Business Park, Yanley Lane, Bristol BS41 9LB
T: +44 (0)117 923 0455 E: enquiries@thelandmarkpractice.com
www.thelandmarkpractice.com

Legend:



6 no. Vivara Pro Built-In Wood-stone Swift Box - small



Eastern elevation

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FIGURE 3a
Bird Box Locations on the Elevation

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Legend:



4 no. Vivara Pro Build-In
Woodstone Bat Box



South-western elevation

COLEG GWENT KQ

FIGURE 3b
Bat Box Locations on the Elevation

THE **Landmark**
PRACTICE

CDM Design Rationale	Hazard Control Mechanism	Residual Risk Level
Location for instalment	Installation should strictly follow manufacturer’s installation instructions. <u>Bat/Bird Boxes and Insect Hotel</u> The locations for the intergrated bat and bird boxes have been selected for ecological reasons to increase the likeli-hood of roosting bats and nesting birds utilising the features provided (at a height of 4m to deter vandalism and theft, located on an aspect of the building to ensure the features receive the desired optimal levels of solar radia-tion for the relevant species, as close to green infrastructure as possible and in an area where artificial lighting will not shine directly upon the feature). The insect hotel has been selected to accomodate a large variety of insects and is located within soft-landscaping to increase the likelihood of insects using this feature. The locations have however also been selected to minimise potential hazards from ensuring ease of any future maintenance (see sections below) and ensuring the safety of the public in the extremely unlikely case that the bat/ bird boxes get dislodged from where they have been installed (highly unlikely given that they are installed into the fabric of the wall construction).	Negligible
Maintenance	The chosen artificial habitats for bird and bat boxes do not require maintenance however, they may need replacing due to wear and tear. Access to the boxes can be provided by ladders, towers, or MEWPs as required by the con-tractor. The insect hotel will require annual maintenance of applying wildlife-firendly preservatives and checking for deterioration and stability.	Negligible
Monitoring	No monitoring required. Post construction compliance check to ensure boxes and insect hotel have been installed in accordance with the plan.	Negligible
Manual handling	Manual handling precautions must be followed. The weight of boxes/insect hotel are as follows: Vivara Pro Built-In WoodStone Swift Box - Small - 3.65kg Vivara Pro Build-in WoodStone® Bat Box - 5.6kg Extra-Large 'Corsica' Bee & Insect Hotel - 41kg. This will require extra caution due to the weight of the object and may require two persons or lifiting equipment such as a moving dolly or pallet truck as deemed appropriate by the contractors and be in accordance with Lifting Operations and Lifting Equipment Regulations 1998 (LOLER).	Negligible