

**From:** [REDACTED]  
**To:** [REDACTED]  
**Cc:** [REDACTED]  
**Subject:** FW: [CSR: 16508] Hell Fie Club PLantations and Dublin Mountans Visitor Centre  
**Date:** Monday 24 July 2023 16:46:59  
**Attachments:** [image001.png](#)  
[image002.png](#)  
[16508-2-100 Landscape Strategy revA.pdf](#)  
[16508-2-102 Hell Fire Club Environs revA.pdf](#)  
[Dublin Mountains Visitor Centre – Compliance Submission – Planning Condition No 5.docx](#)  
[16508-2-101 Visitor Centre and Environs Landscape revA.pdf](#)

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Dear All

See positive response from [REDACTED] in NPWS in relation to Condition 4. We have a very minor edit to plant lists on our drawings but he is happy with the wider strategy and approach.

Please note his reference to Condition 7 and an Ecological Clerk of Works. Whilst that can be included in contract works going forward for contractors, the critical item may relate to the clearance work proposed i.e. ecological status of areas ear-marked for felling in terms of Red Squirrel. As this work is being implemented by Coillte we may need to consider how this is addressed.

We will prepare the compliance submission for issue to SDCC in the next day or two.

Thanks

[REDACTED]  
[REDACTED]

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**From:** [REDACTED] (Housing) <[REDACTED]@npws.gov.ie>  
**Sent:** Monday, July 24, 2023 3:44 PM  
**To:** [REDACTED] <[REDACTED]@csrandplan.ie>  
**Cc:** [REDACTED] (Housing) <[REDACTED]@npws.gov.ie>; [REDACTED] (Housing) <[REDACTED]@npws.gov.ie>  
**Subject:** FW: [CSR: 16508] Hell Fie Club PLantations and Dublin Mountans Visitor Centre

Having reviewed the Draft Compliance Submission you prepared in relation to Condition 5 – Conifers and the Red Squirrel of the planning permission granted by Bord Pleanála for the Hellfire Club Visitor Centre and which you forwarded to me on the 12.7.2023, I am generally happy with the approach adopted in the word document and accompanying drawings you forwarded in regard to the retention, management and, where necessary felling of conifers in the Hellfire Club plantation in the context of the development of the proposed visitor centre while attempting to conserve the Red Squirrel population known to be present in this plantation.

In particular, it is welcome that it is not now intended (as set out in Point 1 of the word document) to convert the existing conifer plantations on the upper part of Mountpellier Hill to plantations of broadleaved trees, and that these conifer plantations will be managed as continuous cover forestry. Given the relatively large areas involved the management of these areas of conifers under such a regime should result in a sustainable long term supply of conifer seeds to maintain the red squirrel population now present on the hill into the future.

It is also to be welcomed (as set out in Point 2) that a high proportion of Scots Pine will be include in any supplementary planting to be undertaken in the areas of plantation clear-felled in 2015, as the seed crops available from mature specimens of this species are very suitable for sustaining Red Squirrels (and of course the Scots Pine is a native species, though because of the presence of planted trees of this species in the area, there would seem no point trying to source native seed for the planting proposed).

Further to be welcomed is that (as referred to in Point 3) it may be feasible where there is no danger of windfall to retain some of the mature Douglas Fir and Sitka Spruce around the extended car park and especially above and outside of the existing forest track /road in this area. Squirrel dreys and evidence of squirrels feeding in these large conifers have been noted in the past, and the retention of as many large trees as possible should be of benefit to any Red Squirrels using areas in the vicinity of the car park.

My only reservation with regards to the approach to tree management and planting proposed (as mentioned to you last week) is that it appears from Drawing 16508-2101 Visitor Centre and Environs Landscaping it is still intended to include a small number of Sessile Oaks amongst the new planting to be carried out in the extended car park area and also among the specimen trees to be incorporated in the landscaping. I would consider that any planting of oak trees in the Hellfire Club plantation, even in small numbers, would be undesirable, as such planting could encourage, by providing a new food source, the spread of Grey Squirrels uphill and across the road from Massy's Wood, and even leaving aside the wider conservation situation with regards to Red Squirrels in this area, it would seem better from an amenity perspective to have Red Squirrels rather than Grey Squirrels present in the immediate vicinity of the new visitor centre. It is therefore recommended that Sessile Oaks should be omitted from any tree planting proposed to be carried out in the Hellfire Club plantation uphill of the Military Road, including from the car park planting and from among the specimen trees.

Apart from Condition 4 of the planning permission granted by Bord Pleanála it is noted that in accordance with Condition 7 of the permission granted by the Board, that an Ecological Clerk of

works is to be appointed to oversee the construction of the proposed development, who is to submit an audit report on the completion of the construction works. This audit report should incorporate information on the status of the Red Squirrel in the Hellfire Club Plantation and Massy's Wood based on dedicated surveys at the commencement and completion of the construction works. Care should in addition be taken that during the felling of the mature Douglas Firs on the car park extension site to be carried out this October that any dreys then found to be present in this stand should be checked for Red Squirrels, and if any Red Squirrel is identified in a drey, it should be allowed escape before the tree containing the drey is felled.

Best regards,

[REDACTED],

Divisional Ecologist with the NPWS for Counties Dublin, Meath and Louth

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**From:** [REDACTED] <[REDACTED]@csrlandplan.ie>  
**Sent:** Friday 14 July 2023 14:03  
**To:** [REDACTED] (Housing) <[REDACTED]@npws.gov.ie>  
**Cc:** [REDACTED] <[REDACTED]@rod.ie>; [REDACTED] <[REDACTED]@rod.ie>; [REDACTED] <[REDACTED]@SDUBLINCOCO.ie>; [REDACTED] <[REDACTED]@coillte.ie>  
**Subject:** [CSR: 16508] Hell Fie Club PLantations and Dublin Mountans Visitor Centre

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Dear [REDACTED]

Thanks for meeting with us last Friday at the Hell Fire Woodland.

Please find attached our Draft Compliance submission in relation to Condition 5 – Conifers and the Red Squirrel. The short word document summarises the approach as discussed on site and this is set out in plan on the accompanying drawings.

Please advise of any comments. I will call you early next week as we must get the agreed draft submitted for compliance later next week.

Regards

[REDACTED]

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# Dublin Mountains Visitor Centre & Associated Works

An Bord Pleanála Ref: 06S.JA0040

## Condition No 5.

***A revised Forest Management Plan to retain the majority of the mature conifers on the Hellfire plantation to support the red squirrel shall be prepared by South Dublin County Council in consultation with the National Parks and Wildlife Service.***

***Reason: In the interest of protecting the environment, and in the interest of sustainable development and proper planning***

### Response

See attached Drawing Nos illustrating the Forest Management Plan:

16508-2-100 Landscape Strategy Rev A  
16508-2-101 Visitor Centre and Environs Rev A  
16508-2-102 Hell Fire Club Environs Rev A

The above revised plans were prepared and agreed following a site meeting on 7<sup>th</sup> July 2023 involving:

[REDACTED] of South Dublin County Council (Planner)  
[REDACTED] (Ecologist) of Roughan & O'Donovan Consulting Engineers – Lead Consultant.  
[REDACTED] of Cunnane Stratton Reynolds – Project Landscape Architects  
[REDACTED], Coillte – Forest Operations  
[REDACTED], National Parks and Wildlife Service.

The plans illustrate the following changes to maintain habitat for the Red Squirrel:

1. No changes will be made to the existing established / mature coniferous plantations to the upper part of the hill, to convert them to broadleaved woodland, as originally proposed, other than some minor removal to open up the environs of the Hell Fire Club building itself. These coniferous commercial plantations will be managed under Coillte's new policy of continuous cover forestry as part of the Dublin Mountains makeover area see <https://www.coillte.ie/coillte-nature/ourprojects/dublinmountainsmakeover/>
2. Areas previously clear-felled in 2015, and with limited trees at the time of the original planning submission have now a mix of self-seeded Sitka Spruce, Gorse scrub and some Birch and Rowan, with lots of pheasant berry. Many trees are now 3-4m high already and the need for new planting is low. Some smaller Sitka Spruce (under 2m high) will be removed in favour of Scots Pine and Birch. Supplementary planting if required / appropriate will include a high Scots Pine component, along with small seeded broadleaved pioneer species like Birch and Rowan. Pheasant berry, an invasive species, is to be removed. In time Sitka Spruce to be phased out as the

Scot's pine matures and produces cones. Broadleaved trees already on site, including historic and new stands of Beech, are to be retained as features. Gorse and bramble scrub is also to be retained, apart from small areas that could be removed to facilitate new tree planting or open glades. The aim is to support the development of a mixed woodland (broadleaves and conifers) that favours the Red Squirrel, and natural regeneration is already achieving this. Oak and other large seeded trees have been omitted from planting lists in favour of small seeded trees – Pine, Birch and Alder.



*Clearfelled areas in 2016 – now with well established trees to 3-4m.*

3. Stands of mature mixed Sitka Spruce, Douglas Fir, Pine and mixed deciduous trees close to the existing car-park will be cleared to accommodate the expanded area of the new car-park and associated works. Subject to assessment of risks from windthrow, it may be feasible to retain trees not affected by the extents of the car-park works but potentially requiring removal because of fall risks. The intention is to retain where feasible and ensure supplementary and new planting contains a mix with a high proportion of Scots Pine and other small seeded trees that favour Red Squirrel (disfavour Gray Squirrel).

This will ensure that the majority of conifers on the Hellfire plantation are retained into the future and new planting proposed will create a Red Squirrel friendly species mix in the form of a mixed woodland (conifers and broadleaves).



- KEY:**
- LANDSCAPE OBJECTIVES**
- Retained Commercial Forest managed to compliment enhanced amenity role.  
E.g:
    - Diversification of species
    - Continuous cover forestry
    - Enhanced ecological functions
    - Exemplar forest practices
  - Mixed woodland - New, Regenerating and retained. Recreating historic landscape pattern. Restoring old walls, maintaining open views north and east, and integrating new site infrastructure (robust screening and fencing to adjacent residential property)
  - Protect Residential amenity, retained and enhanced planting to screen development, secure boundary treatment to be provided.
  - Integrate/screen extended car parking.
    - Retain existing mature trees whilst progressing broad-leaved woodland restoration program.
    - Introduce new woodland tree and shrub planting between car-park terraces.
  - Restore / Enhance Remnant Historic Beechwoods
  - Masseys Wood
    - Ongoing and enhanced management of Masseys Wood for amenity and natural conservation purposes.
  - Walled Garden
    - Repair structures and clear overgrowth as required to enhance legibility of garden form in accordance with Conservation Architects Report.

- CIRCULATION**  
(for further details see Trails Strategy)
- Pedestrian Trails, where designated Equestrian use
  - Shared Use Trails - Pedestrian, accommodating vehicles (Collite and/or Shuttle Bus), where designated Equestrian use
  - Grassed or Earthen Equestrian Trails
- MANAGEMENT OF VIEWS**
- Panoramas to be maintained/enhanced through the long term management of tree height & spread
  - Intermittent/framed vistas to be opened up or managed
  - Localised views to surrounding landscape to be opened up through selective thinning of trees
  - Developed viewpoint with seating/picnic facilities
- NOTE:** Restore prominence of Hell Fire Club as landmark feature/silhouette on summit of Montpellier Hill when viewed from city/suburbs and environs.
- Cut back surrounding plantations from intruding on summit profile around Hell Fire Club.

**NOTES:**  
DRAWINGS ISSUED FOR PLANNING PURPOSES ONLY.  
LANDSCAPE IS SUBJECT TO APPROVAL OF THE LOCAL AUTHORITY.

REV	DATE	AMENDMENT
A	14/07/23	compliance

CUNNANE STRATTON REYNOLDS  
**LAND PLANNING & DESIGN** **COMPLIANCE DRAWING**

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PROJECT:	DUBLIN MOUNTAINS VISITOR CENTRE	DATE:	JUNE 2017
DRAWING:	LANDSCAPE STRATEGY	SCALE:	1:5000 @ A1
		DRAWN:	DM
		CHECKED:	DOL
		DRAWING NO:	16508-2-100



**KEY**

- Historic Remnant Beechwood
- Indicative Locations of Existing Trees to be Retained
- Specimen Trees
- Mixed Woodland - New, Regenerating and Retained
- Car Park Screening Mix
- Wetland Area for Attenuation
- Car Park Spaces in Grass-crete or Equivalent
- Historic Stone Walls to be Retained & Restored
- Existing Commercial Forest Retained
- Woodland Meadow with Scrub
- Boundary Screening Mix
- Tarmac to Selected Finish
- Trails in Rolled Dust
- Grass/Equestrian Bridleway
- 1.8m High Paladin Security Fence to Adjacent Premises - Powder coated green
- Protected species (*Plagiothecium laetum*) - 10m buffer zone



SPECIFIC PLANTING TYPE AREAS & LANDSCAPE TREATMENT DIAGRAM

**HISTORIC REMNANT BEECHWOOD**  
 DESCRIPTION: GROUPS, CLUSTERS, ROWS AND INDIVIDUAL BEECH TREES 50-80 YEARS OLD, REFLECTING FOOTPRINT OF HISTORIC WOODS IN THE AREA. CHARACTERISTIC TREES NOW RECOVERING FROM SUPPRESSION BY CONIFERS.  
 OBJECTIVE: TO STRENGTHEN AND ENHANCE THE REMAINING STANDS OF AND INDIVIDUAL BEECH (*FAGUS SYLVATICA*) AS REMNANTS OF EARLIER BEECHWOODS THAT PREDATED THE AFFORESTATION OF THE HILL AND PROVIDE INTEREST AND VARIATION TO THE NEW PERMANENT MIXED WOODLAND LANDSCAPE.  
 ACTION: CLEAR BRASH AND WOODLAND LITTER THAT CREATES UNSAFE WALKING SPACE (IF NECESSARY). PRUNE AND CLEAN EXISTING MATURE TREES AS NECESSARY TO REBALANCE FORM AND SHAPE. RETAIN DEAD TREE TRUNKS UPRIGHT OR FALLEN AS FEATURES AND HABITAT OPPORTUNITIES AS APPROPRIATE. GENERAL MANAGEMENT TO ENHANCE HABITAT AND AMENITY.  
 WHERE NECESSARY, SUPPLY AND PLANT TYPE A MIX AND LAYOUT TO REFLECT NATURALISTIC INFORMAL PLANTING ARRANGEMENTS OF EDGE SPECIES, NURSE SPECIES AND CLIMAX SPECIES, WITH OPEN GLADES IN PLACES. MANAGE TO ESTABLISHMENT / MATURITY AND TO OPTIMISE BIODIVERSITY AND RED SQUIRREL HABITAT.

**NEW MIXED WOODLAND TO EXISTING REGENERATING CLEAR FELLED AREAS**  
 DESCRIPTION: AREA CLEAR FELLED IN 2016. SIGNIFICANT REGENERATION NOW PRESENT INCLUDING SELF-SEEDING SITKA SPRUCE, SCOTS PINE, GORSE SCRUB AND SOME BIRCH AND DOUGLAS FIR AREAS OF INVASIVE PERSISTENT BERRY. SOME ADDITIONAL REMNANT BEECH TREES PRESENT.  
 OBJECTIVE: TO GUIDE THE EXISTING AND ADVANCED REGENERATION AS A PERMANENT AMENITY WOODLAND WITH A HIGH BIODIVERSITY VALUE AND SPECIES MIX, PARTICULARLY AS HABITAT FOR RED SQUIRREL.  
 ACTION: CLEAR BRASH AND WOODLAND LITTER FROM CLEAR-FELLING THAT CREATES UNSAFE WALKING SPACE (IF NECESSARY). RETAIN DEAD TREE TRUNKS UPRIGHT OR FALLEN AS FEATURES AND HABITAT OPPORTUNITIES AS APPROPRIATE. REMOVE INVASIVE SPECIES SUCH AS PERSISTENT BERRY. GENERAL MANAGEMENT TO ENHANCE HABITAT AND AMENITY.  
 WHERE NECESSARY, SUPPLY AND PLANT TYPE B MIX AND LAYOUT TO REFLECT NATURALISTIC INFORMAL PLANTING ARRANGEMENTS OF EDGE SPECIES, NURSE SPECIES AND CLIMAX SPECIES, WITH OPEN GLADES IN PLACES. MANAGE TO ESTABLISHMENT / MATURITY AND TO OPTIMISE BIODIVERSITY AND RED SQUIRREL HABITAT.

**INTRODUCTIONS TO AREAS OF REGENERATING / YOUNG TREES**  
 DESCRIPTION: REPLANTED AROUND 15 YEARS AGO WITH SITKA SPRUCE, LARCH, BIRCH AND DOUGLAS FIR. CONTAINS EXISTING INFORMAL PATH. TREES UP TO 20M HIGH WITH DENSE UNDERGROWTH OF GORSE AND SCRUB. DYNAMIC LIGHT CHARACTER.  
 OBJECTIVE: TO GUIDE AND DIRECT THE REGENERATING AND / OR YOUNG TREES TO A PREDOMINANTLY MIXED WOOD AS A PERMANENT AMENITY WOODLAND WITH A HIGH BIODIVERSITY VALUE PARTICULARLY AS HABITAT FOR RED SQUIRREL.  
 ACTION: IN PLACES CLEAR GORSE AND SCRUB VEGETATION TO CREATE OPEN SPACE GLADES AND ALLOW SELECTIVE ACCESS THROUGH AND AROUND TREES. WHERE NECESSARY, SUPPLY AND PLANT TYPE C MIX AND LAYOUT TO REFLECT NATURALISTIC INFORMAL PLANTING ARRANGEMENTS OF EDGE SPECIES, NURSE SPECIES AND CLIMAX SPECIES, WITH OPEN GLADES IN PLACES. MANAGE TO ESTABLISHMENT / MATURITY AND TO OPTIMISE BIODIVERSITY AND RED SQUIRREL HABITAT. MANAGE HIGHER AREAS TO MAINTAIN PANORAMA VIEWS FROM NEW VISITOR CENTRE.

**EXISTING ESTABLISHED MATURE CONIFEROUS AREAS**  
 DESCRIPTION: AREA ABOVE EXISTING CAR-PARK WILL ALSO ACCOMMODATE EXTENDED CAR-PARK. PREDOMINANTLY DOUGLAS FIR WITH SCATTERED BEECH AND OAK TREES. FIR AT CRITICAL HEIGHT AND SUFFERING SHAPING AND WIND THROW. VERY IMPORTANT MATURE PLANTING FOR INTEGRATING THE EXTENDED CAR-PARK AND VISITOR CENTRE AREA FOR RED SQUIRREL.  
 OBJECTIVE: A LARGE AREA OF CLEARANCE IS REQUIRED FOR CAR-PARK AND RETENTION OF TREES IS SUBJECT TO WIND THROW / STABILITY ASSESSMENT OF POTENTIAL AREAS TO BE LEFT. WHERE FEASIBLE RETAIN EXISTING MATURE AREAS OF TREES AS PART OF A PERMANENT MIXED AMENITY WOODLAND, RETAINING A HIGH PROPORTION OF SPECIMEN CONIFERS PARTICULARLY AS HABITAT FOR RED SQUIRREL. AREAS ABOVE THE FOREST ROAD MAY BE SUITABLE FOR RETENTION AS A SEPARATE BLOCK AS WELL AS STANDS BELOW THE FOREST ROAD NOT AFFECTED BY THE CAR-PARK EXCAVATIONS.  
 ACTION: MANAGE TO RETAIN CONTINUOUS TREE COVER AS MUCH AS FEASIBLE. NEW PLANTING TO BE TYPE C MIX AND LAYOUT TO REFLECT NATURALISTIC INFORMAL PLANTING ARRANGEMENTS OF EDGE SPECIES, NURSE SPECIES AND CLIMAX SPECIES, WITH OPEN GLADES IN PLACES. MANAGE TO ESTABLISHMENT / MATURITY AND TO OPTIMISE BIODIVERSITY AND RED SQUIRREL HABITAT.

**CAR-PARK LANDSCAPE**  
 DESCRIPTION: NEW LANDSCAPE AREA AROUND AND BETWEEN CAR-PARK TERRACES.  
 OBJECTIVES: TO INTEGRATE CAR-PARK INTO WOODLAND LANDSCAPE CONTEXT AND SCREEN CAR-PARKING AREAS FROM EACH OTHER, FROM THE WIDER SITE AND CONTRIBUTE TO SCREENING FROM THE WIDER LANDSCAPE.  
 ACTION: WHERE FEASIBLE EXISTING MATURE TREES WHICH ARE LOCATED BETWEEN PARKING TERRACES AND IN SURROUNDING AREAS WILL BE RETAINED - SUBJECT TO WIND THROW RISK ASSESSMENT.  
 CHARACTER AND MATERIALS: NEW PLANTING TO REFLECT SURROUNDING WOODLAND SPECIES MIXES BUT USED IN A MORE DEFINITIVE AND CONTROLLED WAY AND WHERE APPROPRIATE AT HIGHER HEIGHTS. PLANTING CONSISTS OF A MATRIX OF NATIVE SHRUB SPECIES TO ACHIEVE GROUND LEVEL SCREENING WITH TREES INCLUDING SCOTS PINE AND BIRCH PLANTED THROUGHOUT TO CREATE WOODLAND CHARACTER AND TO OPTIMISE BIODIVERSITY AND RED SQUIRREL HABITAT.  
 SEE CAR-PARK MIX IN SCHEDULE TO BE PLANTED IN NATURALISTIC PATTERNS WHILST CONSIDERING OPTIMUM SCREENING AND ENCLOSURE. MANAGE TO ESTABLISHMENT / MATURITY AND TO OPTIMISE BIODIVERSITY AND RED SQUIRREL HABITAT.

**WOODLAND MEADOW AND SCRUB**  
 DESCRIPTION: PARTS OF THE EXISTING CLEAR-FELLED AREAS AND/OR YOUNG PLANTED OR REGENERATING AREAS, CHARACTERISED BY EXTENSIVE DIVERSE AND COLOURFUL GROUND FLORA, YOUNG/SMALL TREES AND SHRUBS AND AN OPEN BRIGHT CHARACTER IN PLACES AND ENCLOSED AREAS ELSEWHERE, FROM HIGHER GROUND THIS LANDSCAPE TYPE ALLOWS PANORAMIC VIEWS TO THE WIDER LANDSCAPE.  
 OBJECTIVE: TO MANAGE AND MAINTAIN THESE AREAS AS DIVERSE SCRUB AND WOODLAND MEADOW LANDSCAPES WITH A MOSAIC OF OPEN AREAS, SHRUBBY AREAS AND YOUNG TREES OFFERING VIEWS AND OPEN SPACE TO SIT, PICNIC AND ENJOY AS CONTRAST TO THE WOODLAND LANDSCAPES, AS WELL AS PROVIDING FUN PLACES FOR CHILDREN TO PLAY THIS LANDSCAPE ALSO PROVIDES A SIGNIFICANT EDUCATIONAL OPPORTUNITY TO TREES AND SHRUBS ARE AS A SPACE THAT IS ACCESSIBLE TO CHILDREN AND OTHERS.  
 ACTION: THROUGH SELECTIVE COPPING, CUTTING BACK AND STRIMMING (MEADOW AREAS) MAINTAIN THE DIVERSE AND DYNAMIC CHARACTER OF THESE AREAS AND THEIR DISTINCTIVE HABITATS AND AMENITY FUNCTIONS - INFORMAL PLAY SPACE, SUNNY GLADES, SITTING, AND FRAMING VIEWS TO AND FROM THE WIDER LANDSCAPE. THIS MEANS ARRESTING THE DEVELOPMENT AND MATURING OF THESE AREAS TO CLIMAX WOODLAND AND PROVIDING VARIETY TO THE LANDSCAPES OF THE HILL FIRE WOODS.  
 IN GENERAL, THESE AREAS SHOULD BE ENCOURAGED TO NATURALLY REGENERATE - AND THIS CAN BE SEEN NOW WELL ESTABLISHED. THE EXISTING SEED BANK IN THE SOIL HAS COME TO LIFE WITH THE REMOVAL OF CONIFERS AND LIGHT REACHING THE SOIL, WITH COLOURFUL HERBACEOUS VEGETATION AND YOUNG TREES AND SHRUBS. THIS PROCESS NEEDS TO BE MANAGED AND DIRECTED TO OPTIMUM EFFECT. NEW PLANTING, IF REQUIRED, TO BE USED SPARINGLY AS INDIGENOUS SEEDS AND SPECIES WILL EMERGE BY THEMSELVES. MANAGE TO OPTIMISE BIODIVERSITY AND RED SQUIRREL HABITAT.  
 POTENTIAL ARCHAEOLOGICAL SURFACE FEATURES TO BE IDENTIFIED AND REFERENCED THROUGH SPATIAL ARRANGEMENTS TO EXPRESS THE UNDERLYING HISTORY AND ARCHAEOLOGY OF THE AREA IN SENSITIVE MANNER.

**SCREEN MIX**  
 DESCRIPTION: BOUNDARIES WITH ADJACENT RESIDENTIAL AREAS.  
 OBJECTIVES: TO PROVIDE DENSE BOUNDARY PLANTING TO SCREEN VIEWS INTO THE SITE FROM RESIDENCES ABUTTING SITE AND TO ENHANCE PRIVACY OF THESE HOUSES WHERE OVERLOOKING MIGHT OCCUR.  
 ACTION: IN ASSOCIATION WITH THE LARGE SCALE WOODLAND PLANTING PROPOSED A BAND OF DENSE NATIVE SHRUBS, UP TO 5M WIDE, WITH A HIGH EVERGREEN CONTENT WILL BE PLANTED ALONG THESE BOUNDARIES AND WHERE APPROPRIATE A SECURE FENCE TO 1.8M HIGH WILL BE INCORPORATED. SEE SCREEN MIX IN SCHEDULE TO BE PLANTED IN NATURALISTIC PATTERNS WHILST CONSIDERING OPTIMUM SCREENING AND ENCLOSURE.

**SPECIMEN TREES**  
 DESCRIPTION: INDIVIDUAL, GROUPS OR ROWS OF TREES IN MEADOW/GRASSSED AREAS OR WITHIN SHRUB MIXES.  
 OBJECTIVES: TO ADD TREE FORM AND AMENITY, AND FOCAL POINTS TO SPACES OUTSIDE OF WOODLAND AREAS.  
 ACTION: STANDARD / HEAVY STANDARD TREES PLANTED WHERE INDICATIVELY SHOWN ON PLAN. SPECIES MIX TO INCLUDE TREES FROM WOODLAND PLANTING AREAS AS WELL AS NATURALISED SMALLER SPECIMENS SUCH AS SYCAMORE AND BEECH. LARGE NUT SPECIES SUCH AS OAK TO BE USED SPARINGLY TO OPTIMISE CONDITIONS FOR RED SQUIRREL.

Indicative Woodland Planting Sites - subject to ongoing review of site conditions and need.	Planting Distance / Size of area	% of area	Type A - Beechwood Mix	Type B - To clear felled areas new With significant natural regeneration.	Type C - Introductions to existing areas of regenerating / young trees	Type D - Coniferous areas to be converted to continuous cover forestry with a mixed species character over time
<b>Edge Mix - Scrub/ Bushes/ Low Trees</b>	3-3m centres	15%				
<i>Crataegus monogyna</i>	Hawthorn 60-90cm, br	50%	45%	40%	40%	40%
<i>Ilex aquifolium</i>	Holly 30-45, c.g	30%	25%	25%	25%	25%
<i>Prunus spinosa</i>	Blackthorn 60-90cm, br	7%	10%	15%	15%	15%
<i>Salix caprea</i>	Goat Willow 60-90cm, br	9%	10%	10%	10%	10%
<i>Sambucus nigra</i>	Elder 60-90cm, br	2%	5%	5%	5%	5%
<i>Viburnum opulus</i>	Guelder Rose 60-90cm, br	2%	5%	5%	5%	5%
<b>Trees</b>	3-5m centres	70%				
<i>Alnus glutinosa</i>	Alder 90-120cm	25%	15%	10%	10%	10%
<i>Betula pendula/pubescens</i>	Birch 90-120cm	25%	30%	30%	30%	30%
<i>Pinus sylvestris</i>	Scots Pine 30-45cm, br.	25%	40%	50%	50%	50%
<i>Prunus avium</i>	Bird Cherry 60-90cm	10%	5%			
<i>Sorbus aucuparia</i>	Mt Ash 90-120cm	10%	10%	10%	10%	10%
<i>Ulmus glabra</i>	Wych Elm 60-90cm	9%				
<b>Open space / Glades</b>	To bespoke design	15%				

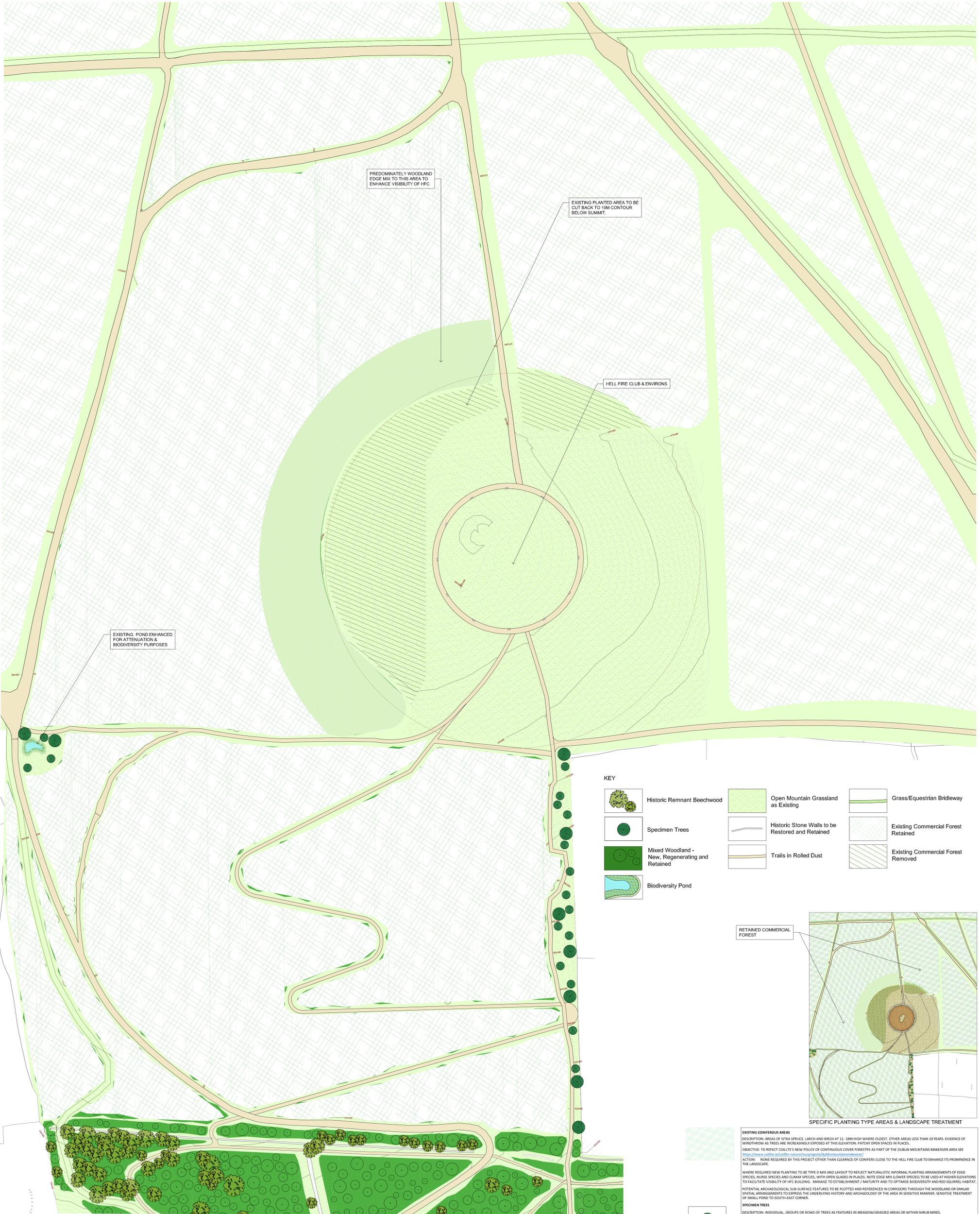
Car-park Mix	Shrub / hedgerow mix	Height / Girth	% of area
<i>Corylus avellana</i>	Hazel	60-90cm, br	20%
<i>Crataegus monogyna</i>	Hawthorn	60-90cm, br	40%
<i>Ilex aquifolium</i>	Holly	30-45, c.g	25%
<i>Prunus spinosa</i>	Blackthorn	60-90cm, br	7%
<i>Salix caprea</i>	Goat Willow	60-90cm, br	4%
<i>Sambucus nigra</i>	Elder	60-90cm, br	2%
<i>Viburnum opulus</i>	Guelder Rose	60-90cm, br	2%
<b>Trees</b>	3-5m centres within shrub matrix		
<i>Alnus glutinosa</i>	Alder	1.8-2.1m ht.	20%
<i>Betula pendula/pubescens</i>	Birch	1.8-2.1m ht.	25%
<i>Pinus sylvestris</i>	Scots Pine	60-90cm, rb.	25%
<i>Sorbus aucuparia</i>	Mt Ash	1.8-2.1m ht.	10%
<i>Fagus sylvatica</i>	Beech	2.1-2.5m. Ht.	3%
<i>Quercus petraea</i>	Oak	2.1-2.5m. Ht.	3%
<i>Prunus avium</i>	Bird Cherry	2.1-2.5m. Ht.	10%
<i>Ulmus glabra</i>	Wych Elm	2.1-2.5m. Ht.	5%

Specimen Trees	Height / Girth	% of area
<i>Acer pseudoplatanus</i>	Sycamore 16-18cm girth, 4-6m, std, BR	as shown
<i>Aesculus hippocastanum</i>	Horse Chestnut 16-18cm girth, 4-6m, std, BR	as shown
<i>Fagus sylvatica</i>	Beech 16-18cm girth, 4-6m, std, BR	as shown
<i>Quercus petraea</i>	Oak 16-18cm girth, 4-6m, std, BR	as shown
<i>Pinus sylvestris</i>	Scots Pine 90-120cm ht, RB.	as shown
<i>Pseudotsuga menziesii</i>	Douglas Fir 90-120cm ht, RB.	as shown
<b>Screen Mix</b>	2/sq.m	% of area
<i>Crataegus monogyna</i>	Hawthorn 90-120cm, br.	20%
<i>Ilex aquifolium</i>	Holly 60-90cm, br.	50%
<i>Ligustrum vulgare</i>	Native Privet 90-120cm, br.	20%
<i>Viburnum opulus</i>	Guelder Rose 90-120cm, br.	10%

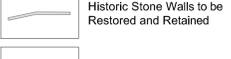
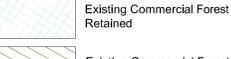
NOTES: DRAWINGS ISSUED FOR PLANNING PURPOSES ONLY. LANDSCAPE IS SUBJECT TO APPROVAL OF THE PLANNING AUTHORITY.

TO BE READ IN CONJUNCTION WITH DRAWING - '16508-2-100 LANDSCAPE STRATEGY'

A 14/07/23 compliance  
 REV DATE AMENDMENT  
**CUNNANE STRATTON REYNOLDS**  
 LAND PLANNING & DESIGN  
 DUBLIN OFFICE  
 3 MOLDESBOROUGH PLACE DUBLIN 2  
 TEL 01 661 0419 FAX 01 661 0431  
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 PROJECT: DATE: JUNE 2017  
 DUBLIN MOUNTAINS VISITOR CENTRE SCALE: 1:750 @ A0  
 DRAWING: ISSUE: 14-JUL-23 REVISION: DRAWN: DM/AM CHECKED: DOL  
 VISITOR CENTRE AND ENVIRONS LANDSCAPE DRAWING NO: 16508-2-101



KEY

-  Historic Remnant Beechwood
-  Specimen Trees
-  Mixed Woodland - New, Regenerating and Retained
-  Biodiversity Pond
-  Open Mountain Grassland as Existing
-  Historic Stone Walls to be Restored and Retained
-  Trails in Rolled Dust
-  Grass/Equestrian Bridleway
-  Existing Commercial Forest Retained
-  Existing Commercial Forest Removed



**EXISTING CONIFEROUS AREAS**  
 DESCRIPTION: AREAS OF SITKA SPRUCE, LARCH AND BIRCH AT 11-18M HIGH WHERE OLDEST. OTHER AREAS LESS THAN 10 YEARS. EVIDENCE OF WINDTHROW AS TREES ARE INCREASINGLY EXPOSED AT THIS ELEVATION. MATCH OPEN SPACES IN PLACES.  
 OBJECTIVE: TO REFLECT COLLIET'S NEW POLICY OF CONTINUOUS COVER FORESTRY AS PART OF THE DUBLIN MOUNTAINS MAKEOVER AREA SEE <https://www.colliet.ie/colliet-nature/projects/dublinmountainsmakeover/>  
 ACTION: NONE REQUIRED BY THIS PROJECT OTHER THAN CLEARANCE OF CONIFERS CLOSE TO THE HELL FIRE CLUB TO ENHANCE ITS PROMINENCE IN THE LANDSCAPE.

WHERE REQUIRED NEW PLANTING TO BE TYPE D MIX AND LAYOUT TO REFLECT NATURALISTIC INFORMAL PLANTING ARRANGEMENTS OF EDGE SPECIES, NURSE SPECIES AND CLIMAX SPECIES, WITH OPEN GLADES IN PLACES. NOTE EDGE MIX (LOWER SPECIES) TO BE USED AT HIGHER ELEVATIONS TO FACILITATE VISIBILITY OF HFC BUILDING, MANAGE TO ESTABLISHMENT / MATURITY AND TO OPTIMIZE BIODIVERSITY AND REPTILES HABITAT. POTENTIAL ARCHAEOLOGICAL SUB-SURFACE FEATURES TO BE PLOTTED AND REFERENCED IN CORRIDORS THROUGH THE WOODLAND OR SIMILAR SPATIAL ARRANGEMENTS TO EXPRESS THE UNDERLYING HISTORY AND ARCHAEOLOGY OF THE AREA IN SENSITIVE MANNER. SENSITIVE TREATMENT OF SMALL POND TO SOUTH-EAST CORNER.

**SPECIMEN TREES**  
 DESCRIPTION: INDIVIDUAL, GROUPS OR ROWS OF TREES AS FEATURES IN MEADOW/GRASSED AREAS OR WITHIN SHRUB MIXES.  
 OBJECTIVES: TO ADD TREE FORM AND AMENITY, AND FOCAL POINTS TO SPACES OUTSIDE OF WOODLAND AREAS.  
 ACTION: STANDARD / HEAVY STANDARD TREES PLANTED WHERE INDICATIVELY SHOWN ON PLAN. SPECIES MIX TO INCLUDE TREES FROM WOODLAND PLANTING MIXES AS WELL AS NATURALISED FAMILIAR SPECIES SUCH AS SCAMORE, HORSE CHESTNUT AND BEECH.  
 ACTION:

Indicative Woodland Planting Species - subject to ongoing review of site conditions and need.	Planting Distance / Size	% of area	Type A - Beechwood Mix	Type B - To clear felled areas now With significant natural regeneration.	Type C - Introductions to existing areas of regenerating / young trees	Type D - Coniferous areas to be converted to continuous cover forestry with a mixed species character over time
<b>Edge Mix - Small/ Bushes/ Low Trees</b>	1-2m centres	15%				
Crataegus monogyna	Hawthorn 60-90cm, br	50%	45%	40%	40%	
Ilex aquifolium	Holly 30-45, c.g	30%	25%	25%	25%	
Prunus spinosa	Blackthorn 60-90cm, br	7%	10%	15%	15%	
Salix caprea	Goat Willow 60-90cm, br	9%	10%	10%	10%	
Sambucus nigra	Elder 60-90cm, br	2%	5%	5%	5%	
Viburnum opulus	Guelder Rose 60-90cm, br	2%	5%	5%	5%	
<b>Trees</b>	3-5m centres	70%				
Alnus glutinosa	Alder 90-120cm	25%	15%	10%	10%	
Betula pendula/pubescens	Birch 90-120cm	25%	30%	30%	30%	
Pinus sylvestris	Scots Pine 30-45cm, br.	25%	40%	50%	50%	
Prunus avium	Bird Cherry 60-90cm	10%	5%	5%	5%	
Sorbus aucuparia	Mt Ash 90-120cm	10%	10%	10%	10%	
Ulmus glabra	Wych Elm 60-90cm	5%				
Open space / Glades	To bespoke design	15%				

Specimen Trees	Height / Girth	% of area
Acer pseudoplatanus	Sycamore 16-18cm girth, 4-6m, std, BR	as shown
Aesculus hippocastanum	Horse Chestnut 16-18cm girth, 4-6m, std, BR	as shown
Fagus sylvatica	Beech 16-18cm girth, 4-6m, std, BR	as shown
Quercus petraea	Oak 16-18cm girth, 4-6m, std, BR	as shown
Pinus sylvestris	Scots Pine 90-120cm ht, RB	as shown
Pseudotsuga menziesii	Douglas Fir 90-120cm ht, RB	as shown

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A 14/07/23 compliance  
 REV DATE AMENDMENT

**CUNNANE STRATTON REYNOLDS**  
**LAND PLANNING & DESIGN** **COMPLIANCE DRAWING**

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PROJECT: DUBLIN MOUNTAINS VISITOR CENTRE  
 DATE: JUNE 2017  
 SCALE: 1:750 @ A0

DRAWING: HELL FIRE CLUB ENVIRONS  
 DRAWING NO: 16508-2-102

**DRAFT**  
 ISSUE: 14-Jul-23  
 DRAWN: DM  
 CHECKED: DOL