

Design and Access Statement

Adventure Parc Snowdonia



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Contents

Introduction	4
Site Location	4
Site History	5
Wavegarden Technology	5
Snow Tunnel	5
Design	6
Use, Amount and Layout	7
Lagoon Layout	8
Snow Tunnel and Accommodation Layout	9
Scale and Appearance	10
Energy & Sustainability	11
Access and Connectivity	12
Conclusion	13



Introduction

Site Location

This Design and Access Statement accompanies a planning application for the redevelopment of the existing surfing lagoon with updated wave generation technology to create a new surfing experience, engineering works to infill part of the surfing lagoon together with associated landscaping and siting of 21 lodges. Refurbishment and extension to the existing Adrenaline Indoors building to house a new leisure attraction along with all associated site infrastructure and external works.

This redevelopment aims to reinforce Adventure Parc Snowdonia's position as a premier leisure and tourism destination in North Wales, offering innovative and sustainable activities that enhance the local economy and visitor experience.

The site is located at Adventure Parc Snowdonia in the stunning Welsh village of Dolgarrog in the heart of the Conwy Valley. This is an established tourist destination that offers both indoor and outdoor adventure activities. There is on site accommodation with camping pods and also the Hilton Garden Inn Hotel.



Site History

Adventure Parc Snowdonia opened in 2015 as the world's first inland surf lagoon, utilising pioneering wave-generation technology to bring a unique surfing experience to North Wales. Located in the Conwy Valley, on the site of a former aluminium works, the parc has become a flagship for outdoor recreation, attracting visitors from across the UK and internationally. Over the years, the site has expanded to include a variety of adrenaline-fueled activities, including climbing, ziplining, and adventure trails. This latest redevelopment seeks to build on this legacy with cutting-edge facilities and innovative attractions.



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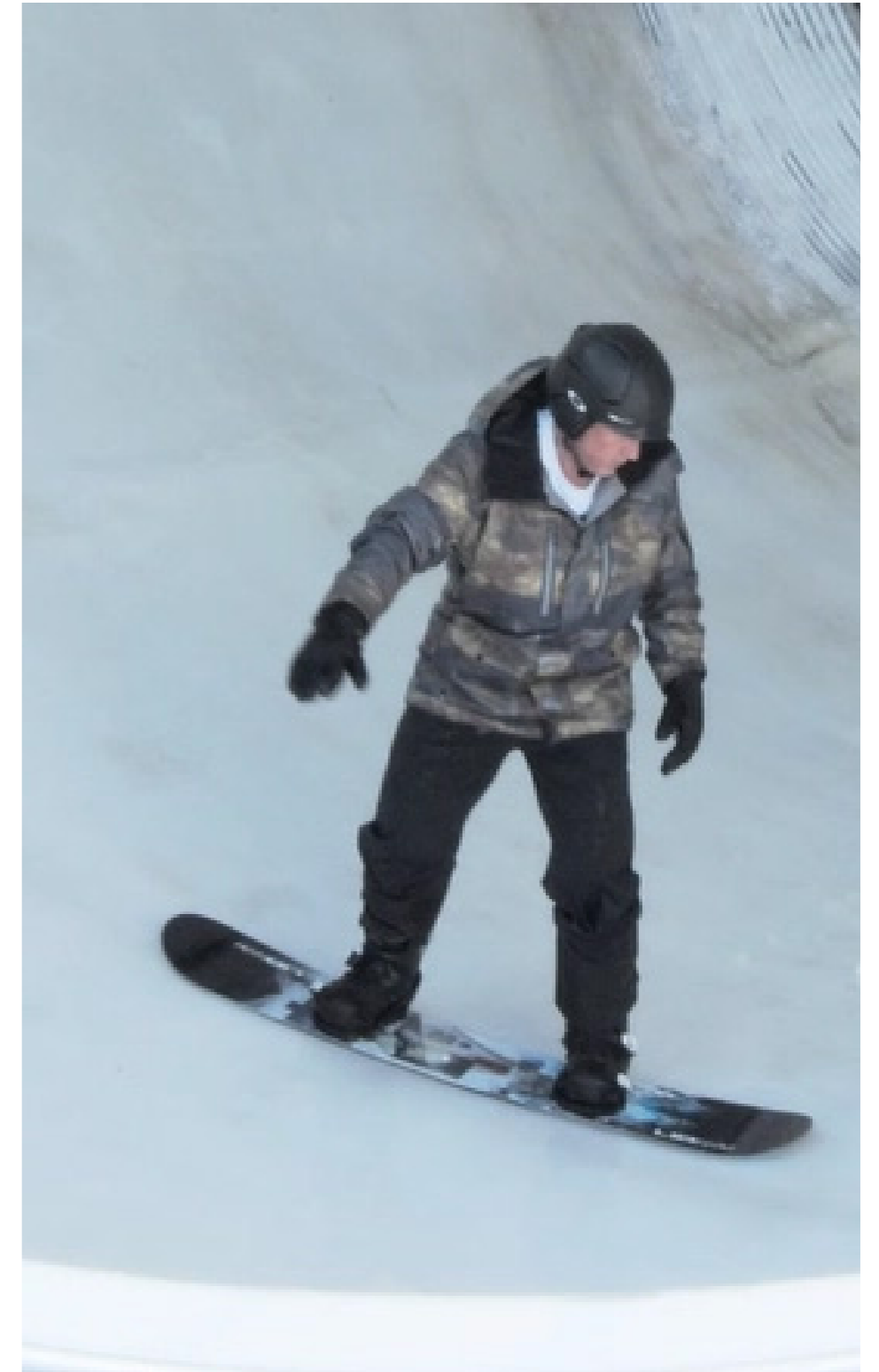
Wavegarden Technology

Central to the redevelopment is the integration of Wavegarden's latest wave-generation technology, a world-leading innovation in artificial surfing. This technology will reinstate Adventure Parc Snowdonia as a premier surfing destination, offering an enhanced wave quality and consistency that appeals to surfers of all abilities. By upgrading the lagoon's capabilities, the parc will bring world-class surfing back to North Wales, supporting the region's reputation as a hub for outdoor adventure and water sports.



Snow Tunnel

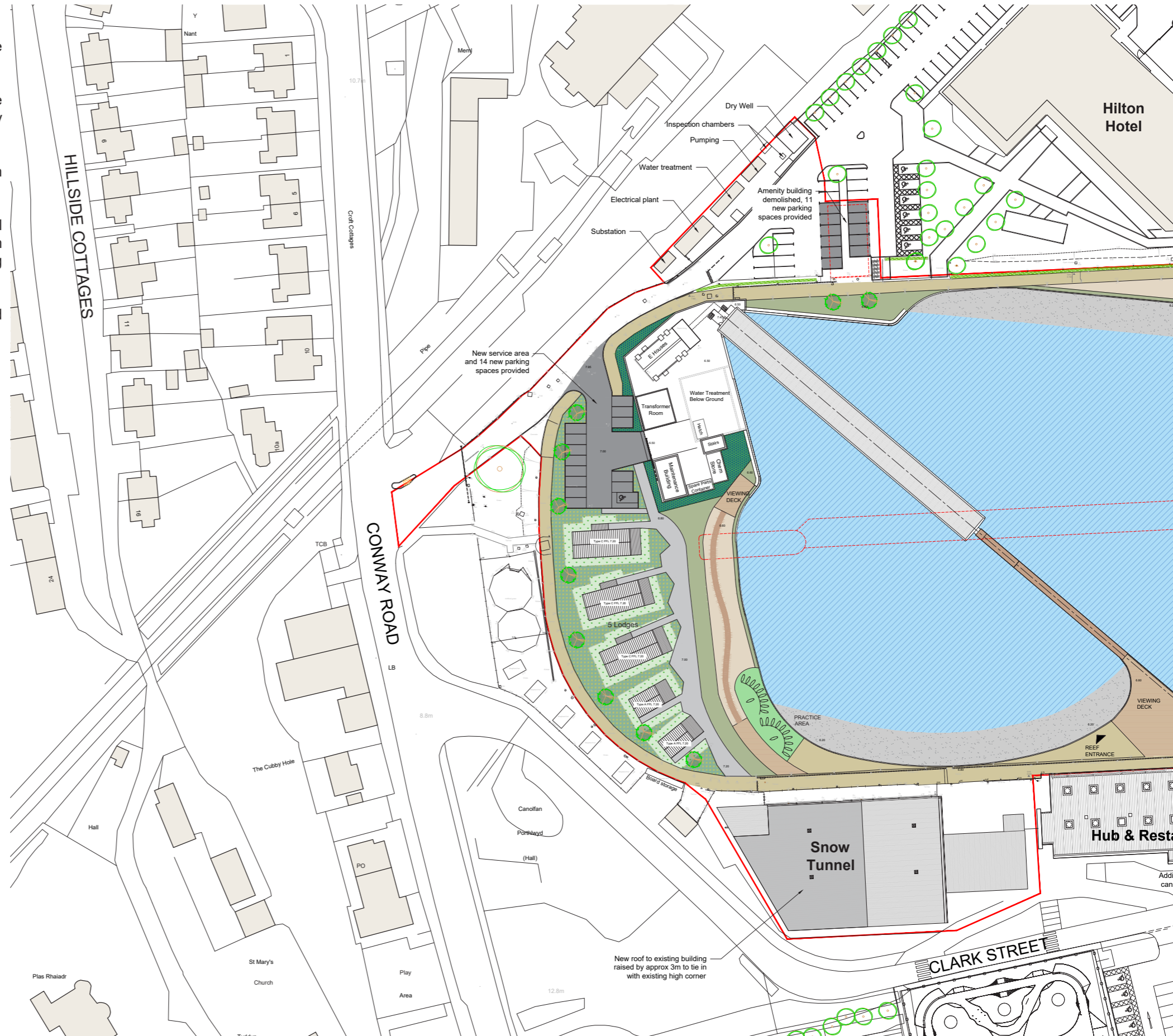
A major feature of the redevelopment is the introduction of the Snow Tunnel, a revolutionary indoor skiing and snowboarding facility. This state-of-the-art attraction provides a year-round opportunity for visitors to experience alpine sports in a controlled environment, regardless of weather conditions. The Snow Tunnel incorporates the latest snowmaking and slope design technologies, offering a realistic and sustainable skiing experience that complements the parc's existing adrenaline-based activities.



Design

The redevelopment includes the following key elements:

1. Surfing Lagoon Enhancements: Upgrades to the existing lagoon with cutting-edge wave technology to improve efficiency, sustainability, and user experience.
2. Engineering Works and Landscaping: Partial infill of the lagoon to improve site functionality and provide space for additional landscaping to enhance biodiversity and visual appeal.
3. Accommodation Lodges: Siting of 21 sustainable lodges, designed to blend with the natural surroundings and meet high environmental standards.
4. Refurbishment and Extension of Adrenaline Indoors: This enhanced facility will house a new leisure attraction Snow Tunnel. This requires increased headroom internally so the roof scape changes but with a design sensitive to the existing architecture and site context.
5. Infrastructure Improvements: Upgraded energy provision, new pathways, and parking to ensure safe and inclusive movement across the site.



Use, Amount and Layout

Use

The existing use of an inland surfing lagoon, indoor adrenaline based activities and overnight accommodation is established on the site. The redevelopment looks to enhance the offering on site and compliment that which already exists.

Amount

The redesign of the surfing lagoon will significantly reduce the lagoon's footprint, with the Cove design occupying a smaller area compared to the original. The reduction in size is intentional and advantageous, as it optimizes water usage and energy efficiency without compromising wave quality or variety. The compact layout will allow the facility to serve more users simultaneously, increasing throughput and enhancing the overall visitor experience. This more efficient use of space also enables the reallocation of surrounding land for the additional 21 accommodation lodges and improved soft landscaping with the creation of habitats not currently present onsite to provide net benefits for biodiversity.

The changes to Adrenaline Indoors are predominantly internal other than the increased roofline to accommodate the Snow Tunnel.



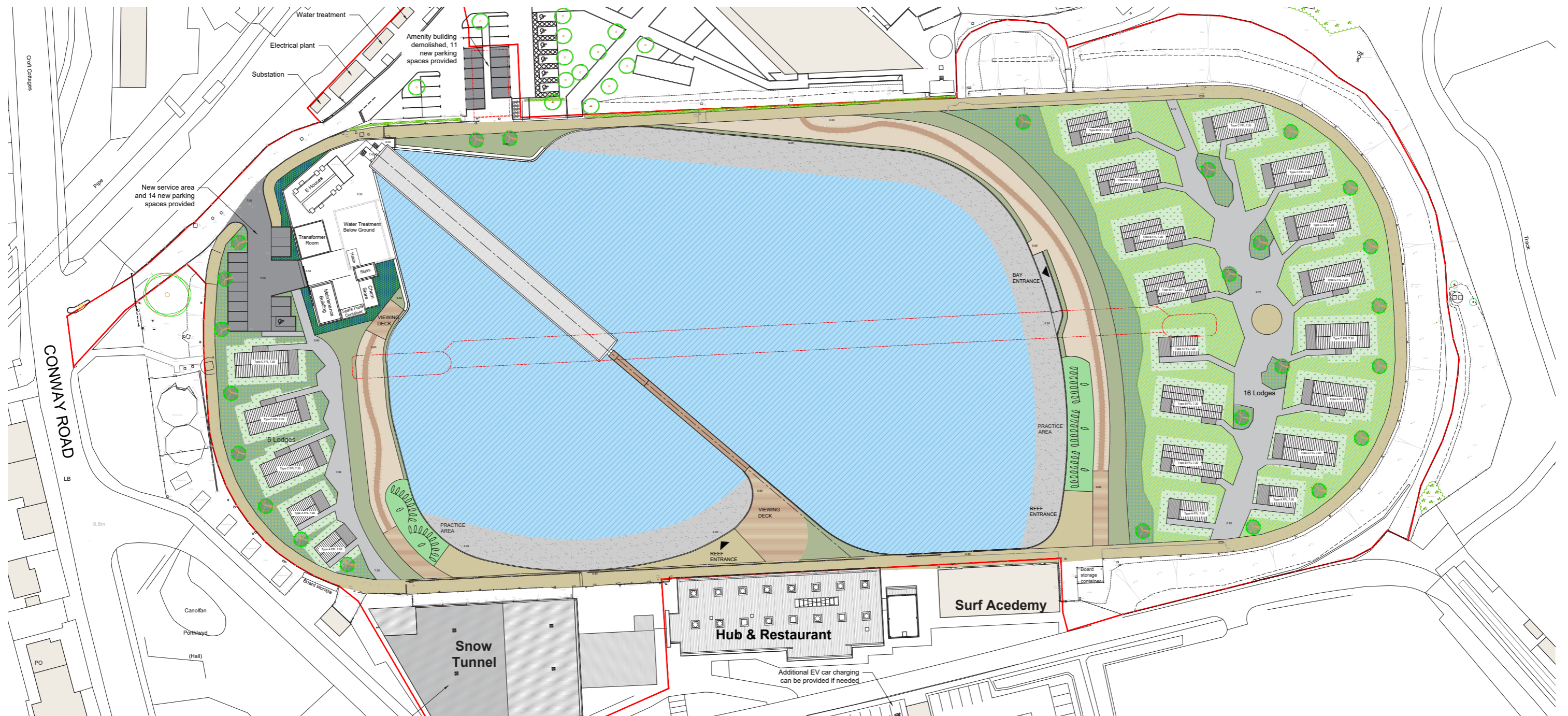
Lagoon Layout

The transition from the original surf lagoon at Adventure Parc Snowdonia to the Cove design by Wavegarden represents a commitment to enhanced user experience, sustainability, and operational efficiency. The Cove design is a proven innovation, offering improved wave consistency and higher wave generation capacity. This upgrade aims to ensure Adventure Parc Snowdonia remains at the forefront of surf park technology.

The smaller Cove lagoon is characterized by its compact design, which supports multiple wave types within a single structure. The new layout will site entirely within the existing lagoon footprint and integrate seamlessly with the existing Adventure Parc Snowdonia site, maintaining sightlines and complementing the natural surroundings. The centralised wave-generation mechanism is set at an angle compared to the original orientation. The waves are accessible to surfers at various skill levels across different sections of the lagoon accessed via new beach areas close to the existing hub building with changing facilities and the surf academy.

This layout minimises unnecessary movement between zones, creating a more user-friendly and efficient environment. Surrounding infrastructure, including pathways, viewing areas, and training zones, will be adjusted to align with the new lagoon footprint, ensuring accessibility and cohesion throughout the site.

The lagoon design has the service yard located to the north west corner to prioritise environmental and energy considerations and is located as such to be close to existing water and power supplies. The service yard is set lower than the adjacent road level to minimize visual intrusion when approaching the hotel and also works with the changing topography to reduce the amount of fill material required.



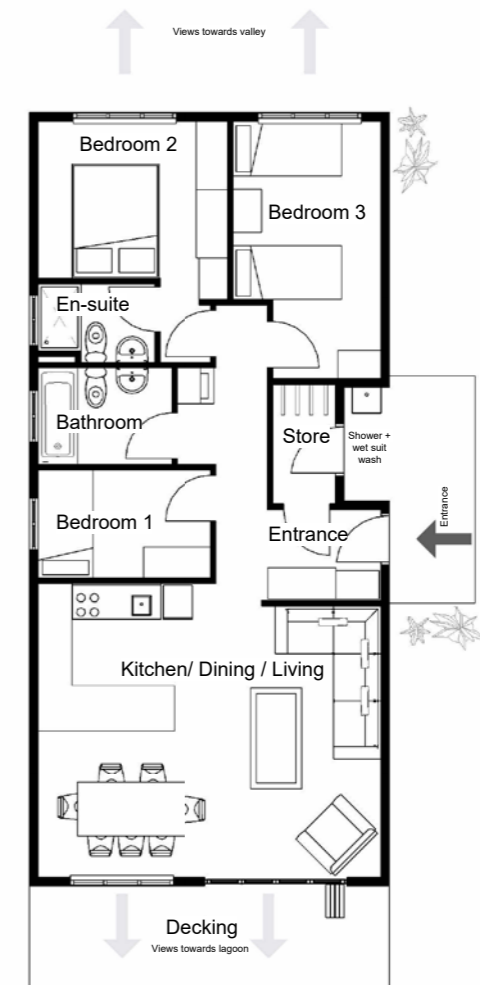
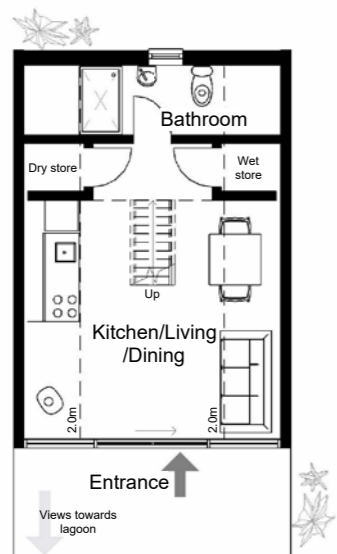
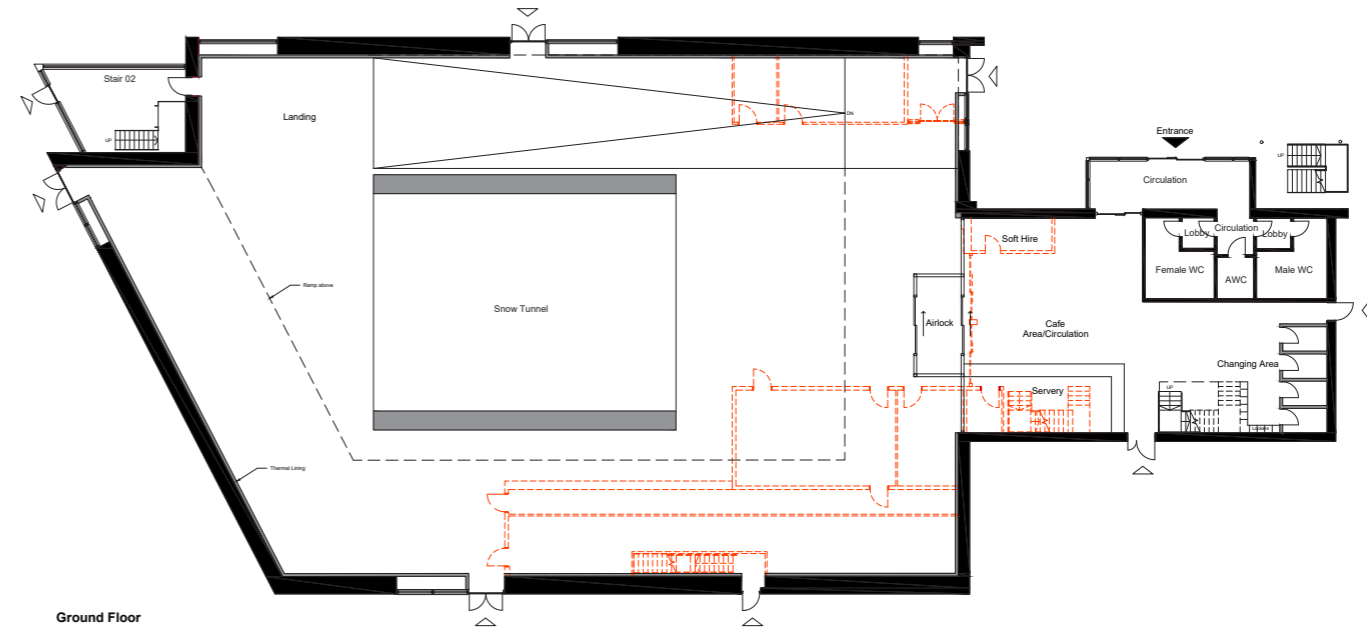
Snow Tunnel and Accommodation Layout

The redesigned lagoon layout minimizes disruption to the existing site context by remaining within the footprint of the current lagoon. Repurposing the existing Adrenaline Indoors building for the Snow Tunnel is a practical solution, eliminating the need for additional structures elsewhere on the site, such as in the eastern areas where the terrain slopes toward the Conwy Valley and falls within designated flood zones.

The new lodges are strategically positioned at the western and eastern ends of the former lagoon. This placement offers families staying onsite exceptional views of the surfing activities, while those in the eastern lodges enjoy expansive views across the wider valley.

The proposals are that 21 lodges in total are provided in a mix of three differing types.

- 5 Type A lodges which are one bedroom two person self catering accommodation
- 6 Type B lodges which are three bedroom five/six person self catering accommodation
- 10 Type C lodges which are three bedroom five person self catering accommodation



Scale and Appearance

The new lagoon has a mix of solid side walls, a central pier structure with machine room, and an expanded shore line, these are all features of the Cove developed by Wavegarden. The lateral walls and the perimeter path along them have a direct effect on the surfers and the public interacting with them. The design proposals try to provide a natural environment to make the most of the surf experience.

Side walls geometry is defined considering:

- User safety
- Visitor's fall risk
- Surfer's wall impact risk
- Containment of Cove water
- Minimise the wall height to achieve the most integrated design and the best connection between the visitors and the surfer.

There are multiple options on the treatment of side walls but will generally all be finished in concrete. Heights vary with solid walls being balustrade height, low walls just above path levels with balustrading, and level deck edges to the shore curb paths with upstands to prevent soft landscaping and soil getting into the water. The edges of the lagoon are a mix of soft and hard landscaping to suit the activity areas and enhance wider views.

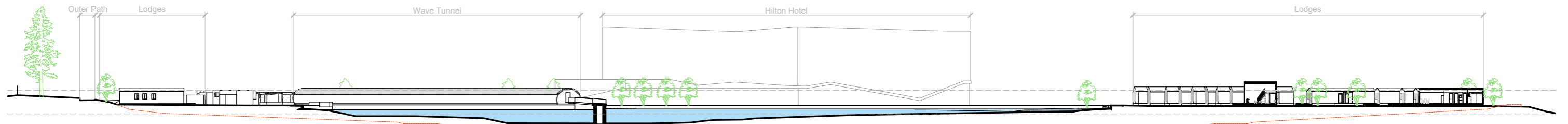
The perimeter of the cove will be set to tie in with existing levels, approximately 6.8m above OS datum. The wall and balustrade heights will vary but generally around 1.1m above the path. The central pier machine room is around 3m in height elevated above the water level, the scale is not dissimilar from the existing pier height. The machine cover is a polyester white finish and the roof is steel, light grey finish.

The lodges all use the same palette of materials that echo that used on the smaller scale buildings within Adventure Parc Snowdonia that are dotted around the site. Metal grey roofs, timber effect cladding and simply detailed aluminium doors and windows. The same materials will be used to the service area buildings also to create a consistent approach to all smaller scale buildings.

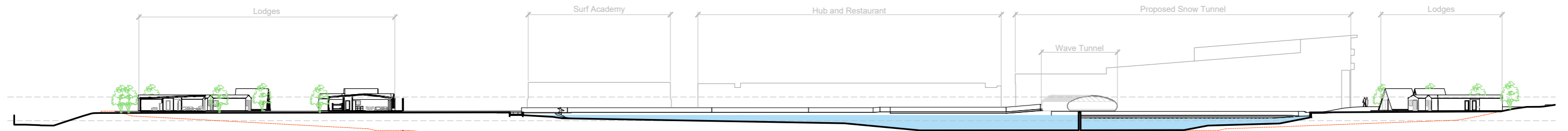
The three bedroom lodges have maximum heights and widths defined by the limits under the Caravan Act, generally not wider than 6.5m and maximum heights under 4m. The A frame lodges will be built on site due to the height being around 4.6m. These will be constructed with the same palette of materials. Generally all accommodation will be set at 7.2m finished floor level which is above the flood event maximum levels including climate change.

Adrenaline Indoors will have a partially extended roof to accommodate the snow tunnel height, this will be around 3m higher than the existing roofline to tie in the maximum roof height to the North West corner of the existing building. The new walls and roof will be constructed using the same cladding that is used already on the building.

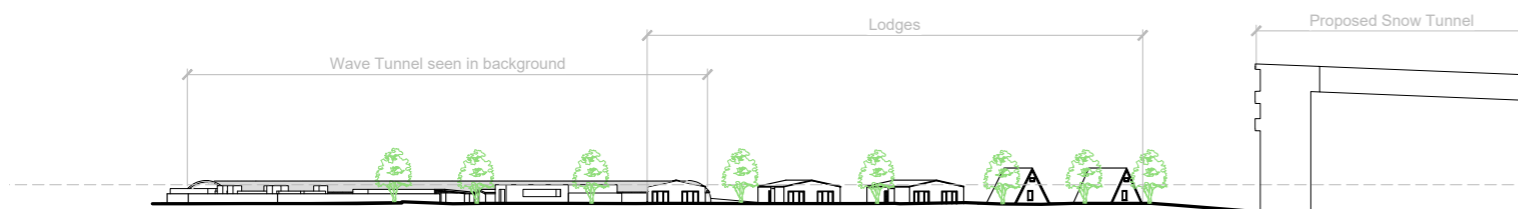
Due to the low temperatures required in the building for artificial snow, the inside of the building will be insulated to create the cold environment. To maintain the consistent internal temperature the insulated lining will need to run past the inside of existing fenestration. The existing glass will be treated with vinyl graphics to mask the insulated lining.



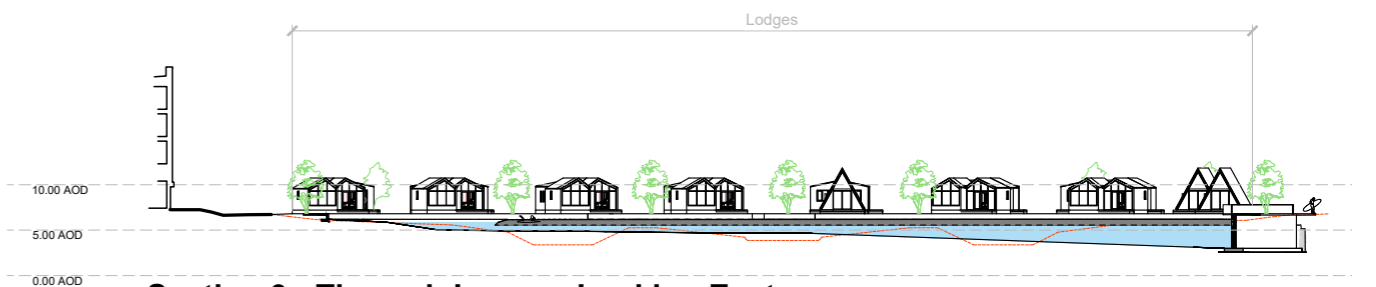
Section A - Through Lagoon Looking North Towards Hotel



Section C - Through Lagoon Looking South Towards Hub and Adrenaline Indoors



Section 1 - From Path Looking East



Section 3 - Through Lagoon Looking East



The design prioritises the environmental sustainability through reduced energy demands with the newer technology, and biodiversity enhancements. The development is sensitive to the site's rural setting, harmonising with the surrounding landscape and reflecting its location in the Snowdonia region.

The smaller lagoon footprint present an opportunity for increases in green infrastructure, and improved soft landscaping with the creation of habitats not currently present onsite to provide net benefits for biodiversity.

Access and Connectivity

The site maintains its established access routes, with improvements to parking, signage, and pedestrian pathways. The proposals adhere to inclusive design principles, ensuring accessibility for all visitors, including those with disabilities.

Parking is expanded with a total of 28 new parking spaces including disable space(s). This provides additional parking for the new lodges. Should further electric car charging be required this can be located in the southern car park adjacent to existing electrical plant.

The service yard for the surf lagoon will be located adjacent to the existing entrance, the parking spaces have been set out so that service vehicles can access the yard without impacting upon the number of available parking spaces.



Conclusion

The redevelopment of Adventure Parc Snowdonia represents a forward-thinking investment in leisure and tourism for North Wales. Combining Wavegarden technology, innovative year-round attractions like the Snow Tunnel, and family orientated self-catering accommodation, the project enhances the parc's reputation while preserving the area's natural and cultural assets. This development secures the parc's future as a world-class destination for adventure, contributing positively to the local community and economy.

