

Planning Application: Building Lifecycle Report

FOR PROSPOSED RESIDENTIAL DEVELOPMENT AT CAPDOO & ABBEYLANDS, CLANE, CO. KILDARE
PREPARED BY BRIAN CONNOLLY ASSOCIATES ON BEHALF OF WESTAR INVESTMENTS LIMITED

Executive Summary

This Building Lifecyle Report addresses requirements as outlined in the 'Sustainable Urban Housing: Design Standards for New Apartments (Guidelines for Planning Authorities)' as they relate to this proposed residential project.

Considered scheme design and choice of building materials, together with the effective management by the appointed Property Management Company and each homeowner playing their part, will help contribute towards a desirable, vibrant community into the future.

The document reviews the outline building specification for the proposed development and assesses the associated long term running and maintenance cost per unit. The report includes detail of measures proposed to manage and reduce costs for the benefit of future residents.

The report considers the use of durable materials and finishes for external elevations (e.g. brickwork, self-coloured render and metal railings) so as to reduce the need for regular maintenance and/or replacement, outside of general housekeeping works. The choice of such high quality and long-lasting materials, will minimise maintenance costs for residents and occupiers into the future. A similar approach is proposed in the choice of building material for internal finishes, for electrical and plumbing installations, and for landscaping of public and private open space areas.

As the building design develops and material choices are confirmed, this document is to be updated to help inform the appointed property management company of expected running and maintenance costs for the development, and to aid more accurate scheduling of works and service charge budgets.

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1. Introduction

This Building Lifecycle Report has been prepared by Brian Connolly Associates on behalf of Westar Investments Limited to accompany a planning application for construction of 305 no. residential units and all associated site works on lands at Capdoo & Abbeylands, Clane, Co Kildare.

This document has been prepared with reference to the requirements of the recently revised 'Sustainable Urban Housing: Design Standards for New Apartments (Guidelines for Planning Authorities), published in March 2018.

These Guidelines direct that detail on the management and maintenance of apartment schemes be included in all planning applications where construction of apartments is proposed. This is set out in Sections 6.11 to 6.14 of the Apartment Guidelines, under "Operation & Management of Apartment Developments".

Specifically, Section 6.13 of the Apartment Guidelines 2018 requires that applications for apartment developments shall include:

"a building lifecycle report which in turn includes an assessment of long term running and maintenance costs as they would apply on a per residential unit basis at the time of application, as well as demonstrating what measures have been specifically considered by the proposer to effectively manage and reduce costs for the benefit of residents".

Over the following pages, this Building Lifecycle Report will address the requirements of Section 6.13 of the Apartment Guidelines as they relate to this planning application.

2. Description of the Proposed Development

This project consists of an application for a Strategic Housing Development by Westar Investments Limited (the applicant) for a new residential development on lands measuring approximately 10.32 hectares at Capdoo & Abbeylands, Celbridge Road, Clane, Co. Kildare.

The proposed development site is located approximately 660m east of Clane Main Street. The Greenfield site is bounded to the north and north-west by agricultural lands (zoned 'Strategic Reserve' in Clane LAP 2017-2023), to the east by the River Liffey, and to the west and south by existing residential developments (Abbey Park/ Alexandra Walk / Brooklands).

The permission sought would comprise 305 no. residential dwellings consisting of:

- 01 no. 1 bedroom Apartments (Block C)
- · 12 no. 1 bedroom own door Maisonette (Types J, K, L & M)
- · 103 no. 2 bedroom Apartments (Block C, D, F & L)
- 8 no. 2 bedroom Maisonette (Types N, ND, O & OD)
- 34 no. 2 bedroom own door Apartments (Type G)
- 01 no. 3 bedroom Apartments (Block C)
- · 34 no. 3 bedroom own door Duplex Apartments (Type H)
- · 20 no. 2 bedroom mid terrace houses (Types F)
- 34 no. 3 bedroom semi-detached houses (Types B, BD, D & DD)
- · 14 no. 3 bedroom end of terrace houses (Types E & ED)
- 44 no. 4 bedroom semi-detached houses (Types A & AD)

The development also includes a single-storey creche facility (Part of the ground floor of Apartment Block D); associated car parking; surface water attenuation, site entrances, landscaping and all associated site development works.

This proposed project would represent development of lands located within Key Development Area (KDA) 1 as identified in the Clane Local Area Plan, 2017-2023. Development is proposed for the entirety of lands zoned C: New Residential within the KDA, while extensive linkages are proposed to allow for future connection northwards to lands currently zoned SR: Strategic Reserve. Two number main access points area proposed at the south-western and south-eastern boundaries of the site, through the existing Brooklands and Alexander Walk housing developments respectively.

Proposals would also see extension of the existing river walkway/green belt along entire eastern boundary of the subject site; from its current end point at the northern boundary of the Alexander Walk housing estate, northwards along the River Liffey to the northernmost boundary of the subject site. Provision will be made for future extension of the green belt along the Liffey, while a cycle and pedestrian connection back westward through the development towards Clane Town Centre (via Brooklands and the R403) would be delivered in the early stages of the proposed project.

3. Site Plan



4. Long term running and maintenance costs as they would apply on a per residential unit basis at the time of application

Units in this proposed project will be designed and constructed using quality materials and the skills of highly competent trade's people. The Applicant and Design Team have many years of experience to rely upon and the design has been informed from early stages through discussion with the Local Authority and An Bord Pleanála, and published guidance including the Sustainable Urban Housing: Design Standards for New Apartments (Guidelines for Planning Authorities).

Careful consideration of long term running and maintenance costs for the end-user have been accounted for from the outset of this project, and this conscious thought process is essential in providing an end product which will require minimal maintenance into the future.

Certainty around long term running and maintenance costs for the development be further strengthened via robust legal and financial arrangements supported by effective and appropriately resourced maintenance and operational regimes, i.e. Property Management Company & Service Charge Budget.

Property Management Company and Owners Management Company

A Property Management Company will be engaged at an early stage of the development to ensure that all property management functions are dealt with for the development and that the maintenance and running costs of the development's common areas are kept within the agreed annual service charge budget.

The Property Management Company will enter into a contract directly with the Owner's Management Company for the ongoing management of the completed development and will have a number of key responsibilities, including:

- Timely formation of an Owners Management Company which will be a company limited by guarantee having no share capital. All future purchasers will be obliged to become members
- o Preparation of annual service charge budget for the development's common areas
- Apportioning of the Annual operational charges in line with the MUD Act (equitable division)
- Engagement of independent legal representation on behalf of the OMC in keeping with the MUD Act - including completion of Developer OMC Agreement and transfer of the common areas
- o Transfer of documentation in line with Schedule 3 of the MUD Act
- o Estate Management / Third Party Contractors Procurement and Management
- OMC Reporting / Accounting Services / Corporate Services / Insurance Management
- After Hours Services and Staff Administration

Service Charge Budget

In accordance with the Multi Unit Developments Act 2011 ("MUD" Act), the service charge budget typically covers items such as cleaning, landscaping, refuse management, utility bills, insurance, maintenance of mechanical/electrical lifts/ life safety systems, security, property management fee, etc, to the development common areas.

This service charge budget also includes an allowance for a Sinking Fund and this allowance is determined following the review of the Building Investment Fund (BIF) report prepared by for the OMC.

The BIF report once adopted by the Owners Management Company, would determine an adequate estimated annual cost provision requirement based on the needs of the development, often over a 30-year cycle period. The BIF report will identify those works which are necessary to maintain, repair, and enhance the premises over the 30 year life cycle period, as required by the Multi Unit Development Act 2011. In line with the requirements of the MUD Act, the members of the OMC will determine and agree each year at a General Meeting of the members, the contribution to be made to the Sinking Fund, having regard to the BIF report produced.

Notwithstanding the above, it should be noted that the detail associated with each element heading in the BIF report, can only be determined after detailed design and the procurement/ construction of the development.

5. Measures specifically considered by the proposer to effectively manage and reduce costs for the benefit of residents

It is intended that all residential units in this development will be certified under the Irish Green Building Council's 'Home Performance Index', an initiative developed by the Irish Green Building Council and University College Dublin, supported by the Environmental Protection Agency (EPA) Green Enterprise Programme. The Home Performance Index provides a label for quality sustainable residential development, complementing existing schemes used in the commercial sector such as BREEAM and LEED.

Certification under the Home Performance Index label provides home buyers with the assurance that their homes have been designed and constructed with care to ensure low running costs, enhance occupant wellbeing and minimise environmental impact. Further information on this certification can be found here https://www.igbc.ie/certification/hpi/.

In addition, units proposed in this development will achieve an A2 Building Energy Rating and will meet the standard required to be nearly Zero Energy Buildings (nZEB) as directed under the European Energy Performance of Buildings Directive Recast 2010 (EPBD).

The tables overleaf provide a summary of measures proposed to assist with the effective management and reduction of costs associated with the completed development for the end-user/occupant.

• Building Design

Measure	Description	Benefit	
Building Aspect / Daylight	The design, separation distances and layout of the apartment blocks and other residential units aims to maximise provision of natural daylight. Design will take account of guidance contained in Sustainable Urban Housing: Design Standards for New Apartments	Reduces reliance on artificial lighting, thereby reducing costs.	
Accessibility	(Guidelines for Planning Authorities). All units will comply with the requirements of Building Regulations and Technical Guidance Documents Parts K and M	Reduces the level of future adaptation and associated costs for residents.	
Ventilation	Use of natural ventilation to common areas is under consideration.	Reduce energy usage costs of ventilation systems and associated maintenance/upgrade costs.	
Security	The scheme is designed to incorporate principals of passive surveillance to deter antisocial behaviour. Allowance made for inclusion of CCTV monitoring details and secure bicycle stands for apartment blocks.	er management cost	
Amenity Space Provision of public and communal open space. Encoura		Encourages community and social interaction among residents.	
Private Open Space	Provision of balconies and openable windows, provides access to the outdoors and allows individuals to clean windows themselves.	Facilitates interaction with outdoors. Reduces the cost and reliance on 3rd party contractors for cleaning & maintenance.	

• Building Construction Materials

Measure	Description	Benefit
Design & Material	Materials selected and chosen with due	Longevity, durability. Minimises
Selection	consideration to their durability, design life and	ongoing maintenance and
	maintenance requirements. Consideration given to	replacements requirement.
	Buildings Regulations, with particular reference to BS	
	7543:2015 'Guide to Durability of Buildings and	
	Building Elements, Products and Components'.	
	Consideration given where possible to use of recycled	
	materials and those awarded an Environmental	
	Products Declaration.	
Building Envelope	Use of brickwork, pigmented render systems and	Requires little or no maintenance
	standing seam/metal cladding to building envelope	aside from regular house-keeping.
External Windows	Use of factory finished timber, alu-clad or PVC	Requires little or no maintenance
& Doors	windows and doors is being considered.	aside from regular house-keeping.
Balconies &	Use of factory finished, powder coated steel	Requires little or no maintenance
Railings	balconies & railings	aside from regular house-keeping.

• Building Installations

Measure	Description	Benefit
Electric Car Charging Points	Design includes for ducting to cater for designated electric car charging points. Charging to be provided	Provides option for residents to move to greener, more cost
Charging Folints	from a local landlord distribution board. System	efficient modes of transport.
	would operate under management of the Operating	
	Management Company and via use of charge point access card.	
Mechanical	Consideration give to use of mechanical ventilation	Improved air quality and reduced
Demand	for residential units by way of Demand Controlled	space heating costs.
Controlled	Ventilation	
Ventilation		
Low Energy LED	To be used in residential units and landlord areas.	Lower energy consumption, leading
Lighting		to lower costs and lower carbon
Canadanaina	Consideration since to use of soundaries beller	emissions.
Condensing Boilers	Consideration given to use of condensing boilers. These have a higher operating efficiency than	Reduced energy consumption and running costs
Bollers	standard boilers (typically over 90%) and have the	Turring costs
	benefit of lower fuel consumption resulting from the	
	higher operating efficiencies.	
Exhaust Air Heat	Consideration given to use as they can provide up to	Reduced energy consumption and
Pump	100% of the heating requirements of a dwelling. Can	running costs. Sustainable energy
	also work in conjunction with underfloor heating.	source.
PV Solar Panels	PV Panels convert energy in sunlight into electrical	Reduced energy consumption and
	power which can be used in the home. May not be	running/service charge costs.
	practical to install for each individual residential unit	
	but consideration given to PV electrical power	
	generation for public common areas.	

• Energy Usage & Emissions

Measure	Description	Benefit
BER Certificates	A Building Energy Rating (BER) Certificate will be provided for each dwelling in the proposed development. This document details the energy performance of each dwelling. A BER is calculated through energy use for space and hot water heating, ventilation, lighting and occupancy. It is proposed that all units will achieve an A2 rating, equating to energy usage of 25 to 30kwh/m² with CO2 emissions circa 10kgCO2/m²/ year.	Improved BER ratings reduce energy consumption and running costs
Home Performance Index	This certification provides home buyers with the assurance that their homes have been designed and constructed with care to ensure low running costs, enhance occupant wellbeing and minimise environmental impact.	Improved ratings reduce energy consumption and running costs
Fabric Energy Efficiency	U Values for the development will be in line with the current regulatory requirements of Technical	Lower U-values and improved air tightness will help minimise heat losses through the building fabric,

	Guidance Document Part L, "Conservation of Fuel and	lower energy consumption and
	Energy Buildings other than dwellings".	thus minimise
	Careful design consideration will be given to minimise	carbon emissions to the
	thermal bridging at junctions throughout.	environment.
Energy Labelled	Should the applicants provide a white goods package	Provision of A rated appliances
White Goods	for the apartments, they will be A rated appliances to	would turn reduce the
	achieve a high energy efficiency rating.	amount of electricity required and
		lower day to day running costs for
		building occupants.
External	A detailed lighting design has been undertaken for the	Lighting will be designed to achieve
lighting	development, detail of which is included separately.	the required standard and to
	The scheme will include 8m and 6m pole mounted	provide a safe environment for
	fittings as indicated on the design drawings. The	pedestrians, cyclists and moving
	luminaire selected is the XSPME.	vehicles. Design incorporates
	The design makes allowance for:	measures to deter anti-social
	- Low Level lighting	behaviour and to limit the
	- Minimal upward light spill	environmental impact of artificial
	- Low voltage LED lamps	lighting on existing fauna and flora.
	 Pre-approval by Kildare County Council 	PECU allows for the optimum
		operation of lighting which
		minimises costs.
Rainwater	Consideration given to use of water butts to provide	Reuse of scarce water resource and
Harvesting	for grey water storage. Use for non-potable supply in	reduction in water charges which
	the home.	may be introduced in future

• Waste Management

Measure	Description	Benefit	
Construction and	The application is accompanied by a Construction	The report demonstrates how the	
Operational	and Demolition Waste Management Plan.	scheme complies with best	
Waste	Operational Waste management details are	practice.	
Management Plan	included.		
Storage of Non-	Domestic waste management strategy will include:	Helps reduce potential waste	
Recyclable Waste and Recyclable	 Centralised bin storage and collection area 	charges	
Household Waste	 Separate grey, brown and green bin. Regular competitive tender for waste management collection. 		
Composting	Organic waste bins will be available throughout.	Promote reuse of organic waste material and reduction of potential waste charges.	

• Building Management

Measure	Description	Benefit
Operating	A Residents' Pack (prepared by the OMC) will be	Residents are as informed as
Management	provided to each resident. This will typically	possible so that any issues can be
Company	provide a range of detail including; information on	addressed in a timely and efficient
	contact details for the managing agent,	manner.
	emergency contact information, transport links in	
	the area and a clear set of rules and regulations.	
Home Buyers	A handover pack (including Homeowner Guide)	Residents are as informed as
Guide	will be issued via email to new Homeowners upon	possible so that any issues can be
	closing. This pack will contain important	addressed in a timely and efficient
	information regarding the new home, including:	manner.
	GPRN, MPRN. Contact details for all relevant	
	suppliers and user instructions for appliances and	
	devices in the property are also included.	

• Landscaping – Public & Private Areas

Measure	Description	Benefit
Natural Amenity	Pocket parks to be created as part of landscaping design, with existing trees and hedgerows retained where practicable. Extension of green belt and walkway along the River Liffey, with generous planting and hard surface play area. Extensive cycle, pedestrian and vehicular linkages will be created to travel through the development and beyond towards town centre, public transport and other amenities.	Facilitates community interaction, socialising and play- resulting in improved well-being of residents and wider public users of the river walkway.
Landscaping	Detailed landscape design included as part of this application. Planting proposals intended to complement the local setting as well as being fit for purpose in respect of private and public realm uses. Design takes account of spatial constraints imposed by garden sizes and the width of planting strips. Native tree species selected in significant numbers for planting where possible.	Reduction in frequency and associated maintenance costs.
Permeability	Cycle and Pedestrian permeability prioritised throughout the development with generous links toward Town Centre, Public Transport nodes, River Liffey parkland/walkway etc.	Facilitates improved well being of residents and promotion of a less car dominated lifestyle and neighbourhood.
Paving & Decking Materials	Sustainable, robust materials, with high slip resistance to be used. Design to incorporate principals of SUDs to aid on site attenuation.	Robust materials and elements reduce the frequency of required repair and maintenance.
Maintenance & Management	Maintenance and management requirements have been considered through the design process. Complex planting arrangements have been omitted to avoid onerous maintenance and management requirements	Maintenance and annual service charge costs reduced