



**Tandy's Lane Village Phase 2
Adamstown, Lucan, Co Dublin**

*Residential Development
April 2024*

**Building Life Cycle Report
Compliance Issue**

scdconsulting.ie

Report: **Building Life Cycle Report**

Project: Phase 2
Tandy's Lane Village, Adamstown, Lucan, Co Dublin

Client: Quintain Developments Ireland Limited

Project No: 100-41

Date: April 2024 Compliance Submission

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Proposed Residential Development
 Tandy's Lane Village Phase 2
 Adamstown
 Lucan,
 Co. Dublin
 Project No: - 100-41

Document Title: - Building Life Cycle & Management Report- **Compliance Issue**



Development Masterplan

Document History: -

ISSUE	DATE	DESCRIPTION	ORIG	PM	ISSUE CHECK
Comp.	April 2024	Issued for Planning Compliance	SD	SCD	2

1.0. Introduction

1.1 General

This life cycle report has been prepared on behalf of Quintain Developments Ireland Limited by SCD Consulting, following receipt an instruction by Mr. Eamonn Boyle from Benchmark Property, property management company, by email on the 22nd February 2022.

The report demonstrates the measures which have been considered to effectively manage and reduce costs for the benefit of residents and the environment. We have included a template for an Asset Register (see Appendix B) to aid assessment of the long-term running and maintenance costs.

1.2 Proposed Development

The overall development at Tandy's Lane Village, Phase 2, Adamstown, Lucan, Co Dublin consists of a total of 347 No units comprising of houses and duplexes incorporating 80 No 4 bed houses, 224 No 3-bed houses, 15 No 2-bed houses, 14 No 3-bed duplexes and 14 No Ground Floor apartments, provided with a total of 530 No car spaces comprising of some 65% off street and 35% on curtilage- refer to MOLA Architecture drawings submitted with the this application.

All the above is part of associated site and infrastructural works including, public open space, landscaping and foul, surface water (incl. Suds) and watermain drainage.



General Development CGI View

1.3 Relevant Guidelines & Standards

Section 6 of the Sustainable Urban Housing; Design Standards for New Apartments- Guidelines for Planning Authorities (2023) includes the below sections which relate to the “Operations & Management of Apartment Developments” and require a Building Life Cycle Report to be submitted. The guidelines have relevance for multi-unit dwelling developments that are controlled by an Owners Management Company (OMC)

Section 6.11

“Certainty regarding the long-term management and maintenance structures that are put in place for an apartment/housing scheme is a critical aspect of this form of residential development. It is essential that robust legal and financial arrangements are provided to ensure that an apartment/housing development is properly managed, with effective and appropriately resourced maintenance and operational regimes.”

Section 6.12

“In this regard, consideration of the long-term running costs and the eventual manner of the proposal with the Multi- Unit Developments Act, 2011 are matters which should be considered as part of any assessment of a proposed apartment development.”

Section 6.13 – Apartment Guidelines 2018 require that apartment & applications 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”*

This report aims to meet the requirements of these sections of the guidelines and will consider all elements of the proposed dwelling aspect of the development. The report follows the assessment methodologies set out in the relevant European and British standards and in particular conforms with current BRE and EU guidance.

2.0. Assessment of Long-Term Maintenance and Running Expense

2.1. Property Management of the Common Areas of the Development

Benchmark Property of 15 Adelaide Street, Dun Laoghaire, property management company (PMC) have been engaged, at an early stage of this development to ensure that all property management functions are dealt with for the development. The PMC will establish and manage the maintenance regime, establish, manage, and adjust the budget for the service charges and ensure that the running and maintenance costs of the **common areas** of the development are kept within the agreed annual operational budget.

The property management company will enter into a contract directly with the Owners Management Company (OMC) for the ongoing management of the built development. The contract will be for a maximum period of 3 years and in the format prescribed by the Property Services Regulatory Authority (PSRA).

The Property Management Company also has the following responsibilities for the residential common areas aspect of the development once constructed:

- Formation of an Owners Management Company (OMC). This will be a company limited by guarantee having no share capital. All future purchasers will be obliged to become members of this OMC.
- Fair and equitable apportionment of the Annual operational charges in line with the Multi-Unit Development Act 2011 and reflecting the different needs and services provided to the varying units with the development and in this case house Types A to E providing a total development of 347 No dwellings.
- 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 common areas.
- Transfer of documentation in line with Schedule 3 of the MUD Act.
- Identification of services required by OMC for the benefit and enjoyment of individual properties and the estate by residents and owners.
- Preparation of annual service charge budget for the development common areas.
- Estate Management.
- Third Party Contractors Procurement and management.
- Reporting to OMC. Accounting Services. Corporate Services Insurance Management.
- Keeping proper books of account in accordance with the companies Act 2014 and the MUD Act 2011 and preparing a file for audit by the OMC accountant at year end
- Corporate Services to include convening of general meetings of members, establishing and maintaining the register of members of the OMC
- After Hours Services (where applicable)

- Staff Administration.
- Estate initiatives to facilitate the future needs of unit owners and adapt with technology, that which effects the living experience of owners and changes to the built environment

2.2 Common Areas are areas including:

- The access roads, footpaths, kerbs, paved, planted and landscaped areas, and other Architectural features
- All ducts and conduits, other than those within and serving only one unit in the development
- Tanks, sewers, drains, pipes, wires, central heating boilers (if centralised), other than such items and serving only one unit in the development
- Management Offices and security (if provided)
- Other areas that are from time to time provided for common use

2.2.1 OMC Services and Obligations

The OMC through the offices of their Property Management Agent will provide services required to the estate and detailed in the title documents of all dwelling units. In addition to the prescribed services, the OMC is best positioned to provide additional services to improve the living experience for all residents on the estate. The appointed management agent will endeavour to introduce initiatives for approval by the OMC and its members designed to deliver a strategy of better living balanced with value for money.

The services identified for the proper maintenance and upkeep of the housing units and common areas, as described in Section 1.2 of this report, at Tandy's Lane Phase 2, Adamstown, Lucan, Co Dublin are:

2.2.2 Insurance

All shared structures, land and property owned by the OMC and used by residents collectively must be insured against normal risks protecting shared and private property against all insurable risks. The appointed property managers will procure a comprehensive all risks property damage policy on behalf of the OMC prior to the sale of the first housing unit, reflecting the full reinstatement value of the development as completed. In addition to buildings insurance the OMC will require public and employers' liability insurance, directors' and officers' liability insurance, engineering insurance for lifts (where applicable), and other mechanical installations and contents insurance for its management office (if provided for the estate) and common areas.

2.2.3 Life Safety Systems, Fire Prevention and Protection

The safety of residents is paramount. Each dwelling unit will be designed and built within strict regulatory requirements in respect of fire safety. The OMC will then have a duty of care to each resident to ensure that the common areas are maintained in accordance with its fire safety certificate and fire strategy.

All fire related services in the external common areas such as fire mains, hydrants and other services will be inspected and maintained on a quarterly basis and any faults or failures are identified and corrected to ensure that the integrity of the fire safety certificate is never compromised.

2.2.4 On-Site Staff and Facilities-(possible provision as part of overall development)

A management office for use by the OMC and its on-site operatives may be provided for the management of the overall estate. The management office will provide all on site staff with cleaning and washroom facilities while also providing residents with a place to report maintenance issues and have parcels held if they are not home to receive same. The management office will be staffed Monday to Friday by the site manager / concierge while active evening and weekend periods will be staffed by contract security.

Landscaping contractors will attend to grounds and hard surfaces. On site staff will notify specialist contractors of maintenance issues as they arise for immediate attention. The combination of all services should ensure the enjoyment of the common areas and wider development by all residents.

2.2.5 Energy Consumption and Management

As part of the sustainability strategy for Tandy's Lane Village, Phase 2, Adamstown, Lucan, Co. Dublin, each dwelling unit within the development, will utilise an air source heat pump system, utilising grid supplied electricity to extract thermal energy from a heat source in this case, the external ambient air.

Common area lighting and power consumption will be monitored on a regular basis to strike a balance between comfort and efficiency. All plant and equipment will be maintained in accordance with manufacturer's guidance and guarantees to ensure that they are operated efficiently, and that the full life expectancy is delivered.

2.2.6 Waste Management

The strategy for domestic waste will be based upon the Operational Waste Management Plan, compiled by AWN Consulting, and included within the Planning application. This will enable the OMC to optimize waste segregation and encourage residents to re-cycle and segregate as much waste as possible by providing multiple receptacles on site. The use of bin compactors will optimize the use of bins while reducing the number of bins. On site staff (if provided) will manage waste storage areas keeping them free from lingering odours and vermin and ensuring that waste management areas are not unpleasant places for residents to visit and dispose of their waste and recycling. Waste and Recycling areas will be well managed with bins clearly identified to encourage segregation and prevent contamination. In all likelihood the waste system may operate on an individual unit basis in which the resident will control waste disposal.

2.2.7 Maintenance

Maintenance of all plant and equipment in accordance with statute, best practice and manufacturers warranties and guidance, is essential for optimizing the operation of the estate and delivering comfort to residents. Maintenance contracts will be entered into for all such facilities to include, closed circuit (if communal system installed), television systems, access control etc. In addition to maintenance contracts and relevant consultants will be engaged to advise on best practice for maintenance and occasional review of contractor's performance.

2.2.8 Landscaping and Grounds

The landscaping plan has been designed to provide the following:

1. Robust high slip resistance materials to be used for paving, fencing (where applicable), furniture, bin & bicycle storage units, (if utilised) to minimise on-going maintenance inputs
2. Pedestrian and cyclist friendly hierarchy of streets and open spaces are complemented by generous and high-quality landscape treatments providing exceptional long term residential environments.
3. Sustainability elements of this proposed residential development, in conjunction with the housing aspect are, the use of native trees across the site, where possible. Other species have been carefully selected for compatibility, with the size of available spaces considered, as this is an important factor in the long-term management of the overall development.
The overall objective is to enhance the biodiversity potential of the development in addition to providing seasonal interest and variety.
4. Maintenance and management requirements have been considered through the design process by MOLA Architecture and DOT Landscape Architects. Complex planting arrangements have been omitted thus avoiding onerous maintenance and management requirements.

2.3 Service Charge Scheme

- 2.3.1 The preparation of a Service Charge Budget is a key function of the OMC and Property Management Agent, as it determines the services and service levels deliverable to the residents and OMC members for the coming year. The budget covers all items in connection to the maintenance, management, insurance, repair, upkeep, cleaning of common areas and equipment in accordance with the Multi Unit Developments Act 2011 (“MUD” Act). A sample annual budget is shown in Appendix A which is itemised per residential unit.

The Service Charge Budget will also detail different cost centres to reflect the enjoyment and consumption of services by different property types within the estate. This will enable the OMC to recover the costs from unit owners in an equitable and transparent manner.

The Service Charge budget will be prepared on a “normal year”, basis ignoring warranties and guarantees available in the first year to establish a realistic service charge budget that should not vary greatly within the first three years of establishment. The budget will include a reasonable reserve fund, separate to the sinking fund, to provide for unforeseen expenditure and enable the OMC to equalise its costs year to year without fluctuating the contributions from unit owners.

The Service Charge Budget will be agreed in the first year in advance of the first unit being sold in consultation between the developer and the property management agent. Following the sale of the first unit and prior to the levying of any further service charge, the budget will be presented to the membership for approval at a general meeting of owners.

A service charge budget should also include an allowance for a Sinking Fund and a Reserve Fund. (see Appendix A)

2.3.2 Sinking fund

A fund formed by periodically setting aside money for the replacement of a wasting asset (for example, major items of plant and equipment, such as external lighting systems plant associated with the provision of SuDs related equipment). It is usually intended that a sinking fund will be set up and collected over the whole life of the wasting asset.

2.3.3 Reserve fund

A fund formed to meet the anticipated future costs of maintenance and upkeep in order to avoid fluctuations, or an anticipated large, one-off increase in the amount of service charge payable each year (for example, regularly recurring items such as external cleaning and redecorations).

The allowance for the sinking fund and reserve fund within the service charge budget is determined by establishing the Asset Register (see Appendix B). The Asset Register 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 and the costs required to achieve it. The Asset Register will form part of the report for the OMC.

2.3.4 Optimising Maintenance and Life Cycle

The design of the housing units by MOLA Architecture and its facilities in Tandy's Lane Village Phase 2, Adamstown, incorporates various measures to maximise the useful life of assets, plant and equipment focusing on the living experience for all residents. Operational management of the various facilities will include monitoring of performance and continuous re-assessment to ensure that each assets life cycle is maximized.

Monitoring run times, energy consumption and reactive maintenance patterns will influence the life cycle strategy of the building. The Sinking Fund strategy is a living document that is subject to change through the experience of use trends within the estate and monitoring technological advances and adopting same when it is economically viable.

A sample format of the typical Asset Report is set out in Appendix B.

Please Note: the sample Asset Report is based on an estimation of the types of assets that will ultimately be incorporated into the developed scheme. The final specification and estimate of the costs to maintain, repair, or replace, will only be determined after detailed design and the procurement construction of the development in conjunction with property managers, Benchmark Property.

2.3.5 OMC Structure

Tandy's Lane Village Owners' Management Company Limited by Guarantee, have been established as the OMC for Tandy's Lane Village Phase 2 housing unit development. The company will be limited by guarantee with membership restricted to unit owners within the estate. Voting is on the basis of membership with each unit having a single vote. Directors will be elected by the unit owners at the first General Meeting of owners. No director will hold office for longer than three years without seeking re-election at a General Meeting of owners. The OMC will engage a firm of Chartered Accountants to Audit its accounts each year.

2.3.6 Service Charges

The company must establish a scheme for annual service charges to pay for the maintenance, insurance and repair of external common areas within its control and for the provision of common services to unit owners. The initial charge will be set in consultation with the developer prior to the sale of the first unit. Subsequent service charge budgets will be approved by a general meeting of the members.

The Service Charge Budget for the coming year will be prepared and distributed with explanations prior to a general meeting of owners convened to approve the budget. The budget is approved once it is not objected to by over 75% of members present and eligible to vote otherwise the existing charge must remain in place.

The Service Charge may not be used to pay for matters that are the responsibility of a developer or builder unless this is agreed in writing by 75% of the members of the company. This approval may only be given if 65% of the units are sold and can only come into effect 3 years after the transfer of ownership of the common areas to the owners' management company.

Unit owners are obliged to pay the service charge (including developers in the case of unsold units). The service charge must be calculated on a transparent and fair basis and expenditure must be properly recorded.

2.3.7 Service Charge Apportionment

The property management agent will review the development to determine the most equitable and transparent manner of apportionment of service charges. The apportionment will determine the contribution each unit owner makes to the OMC costs as detailed in the Service Charge Budget and which cost centres each unit will contribute towards.

The fair and equitable apportionment of service charges will assist in the perpetual collection of service charges and ensure that each unit owner contributes to those services that they enjoy or consume.

The apportionment methodology will also apply to the Building Investment Fund costs and annual contribution to the Sinking Fund.

2.3.8 OMC Annual General Meeting & Annual Report

The OMC has been established prior to the first unit being sold and will be required to hold Annual General Meetings before the development stage is completed. The OMC will convene the Annual General Meeting inviting all registered owners at that time.

The property management agent will prepare an Annual Report on behalf of the OMC in accordance with the MUD Act together with audited accounts and prepare a service charge budget for presentation to the owners for approval. The Annual Report will contain all details required under the MUD Act to include a summary of fire safety processes in place, insurance details and information regarding the level of sinking fund etc. The Annual Report and Proposed Budget will be distributed to unit owners not less than 10 days in advance of the meeting and notice will be issued with accounts 21 days in advance of the meeting.

2.3.9 Estate Rules

The property management agent will prepare Estate Rules prior to the sale of the first unit having regard for, the title documents and the physical nature of the development with a view to the quiet enjoyment of the estate by all unit owners. The Estate Rules will be distributed as part of the Owners Management Information Booklet both prior to sale to the purchasers solicitor and immediately after sale directly to the new owner. Estate Rules can be amended at General Meetings thereafter to reflect the views of the owners and the needs of the estate.

2.3.10 Owners Management Information Booklet

The property management agent will prepare an Owners Management Information Booklet that will contain details on the OMC, service charge budget, apportionment, Estate Rules and other useful information regarding the operation of the OMC and services provided.

2.3.11 Establishment of the Sinking fund

Within 3 years of the transfer of ownership to it, the owners' management company must establish a sinking fund for spending on refurbishment, improvement or maintenance of a non-recurring nature of the multi-unit development. Unit owners are obliged to make contributions to it (including developers in the case of unsold units). The Act provides that the amount is to be €200 annually or such other amount as the members agree.

Contributions to the sinking fund must be held in a separate account

3.0. Measures Considered to mitigate and Reduce On-Going Costs of the Development

3.1 Energy and Carbon Emissions

The following are an illustration of the energy measures that are planned for the units to assist in reducing costs for the occupants.

Measure	Description	Benefit
BER Certificates	<p>A Building Energy Rating (BER) certificate will be provided for each dwelling in the proposed development which will provide detail of the energy performance of the dwellings. A BER is calculated through energy use for space and hot water heating, ventilation, and lighting and occupancy. It is proposed to target an A2 rating for the dwelling in accordance with the requirements of Part L of the Building Regulations Nov,2019, this will equate to the following emissions.</p> <p>A2 – 25-50 kwh/m2/yr with CO2 emissions circa 10kg CO2/m2 year</p>	Higher BER ratings reduce energy consumption and running costs.

Fabric Energy Efficiency	<p>The U-values being investigated will be in line with the requirements set out by the current regulatory requirements of the Technical Guidance Documents Part L, “Conservation of Fuel and Energy Buildings other than Dwellings”. Thermal bridging at junctions between construction elements will be minimised in accordance Paragraphs 1.2.4.2 and 1.2.4.3 within the Technical Guidance Documents Part L. Details will be in accordance with the ACD’s or will be modeled for thermal bridging analysis. Precise U-values for the development, complying with the current Building Regulations have been established by MOLA Architecture and Waterman Moylan, Engineering Consultants as part of the Planning Submission</p>	Lower U-values and improved air tightness will help minimise heat losses through the building fabric, lower the energy consumption and minimise carbon emissions to the environment.
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Energy Labelled White Goods	<p>The white goods package planned for the housing units will be of a very high standard and have a high energy efficiency rating. It is expected that the below appliance ratings will be provided:</p> <ul style="list-style-type: none"> • Oven- A plus • Fridge Freezer- A plus • Dishwasher- AAA • Washer/Dryer- B (Max) 	The provision of high rated appliances reduces the amount of electricity required by occupants.
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Air Source Heat Pumps (ASHPs)	<p>Air source heat pumps utilize grid supplied electricity to extract thermal energy from a heat source. In the case of Tandy's Lane Village Phase 2, the source will be the external ambient air.</p> <p>While the electricity consumed is not renewable energy, the efficiency at which a heat pump operates allows a significant portion of the heat delivered is considered renewable.</p> <p>The amount of heat considered renewable is determined by the efficiency of the heat pump and the "primary energy conversion factor" for grid electricity</p> <p>Typically, approx. 40% to 50% of the heat supplied is considered renewable</p>	<p>For large scale housing developments, the design of ASHP's has improved greatly recently with improvements in efficiencies and reduced costs.</p> <p>Certified seasonal efficiencies of some models (Samsung) exceeding 500% meaning that the technology can deliver compliance to the current Part L of the Building Regulation with ease.</p>
Water Metering & Conservation	<p>Each dwelling will be provided with an Irish Water approved boundary box containing a water meter and service pipe</p> <p>All main services and connections to be fully compliant with current Irish Water Code of Practice for Water Infrastructure Document IW-CDS-5020-03.</p>	<p>The storage volume of the tanks will be designed to provide 24 hour storage (Irish Water requirement).</p> <p>Each Dwelling Unit to be provided with an approved water butts located in the back gardens as part of overall SuDS strategy and water conservation</p>
External Lighting	<p>The proposed lighting scheme within the development consists of 8m and 6m pole mounted fittings as indicated on the Waterman Moylan & DOT Landscape Architect's drawings. The luminaire specified is an LED pole mounted luminaire with NEMA socket and photocell, this fitting was selected for the following reasons.</p> <ul style="list-style-type: none"> • Dark sky friendly, 0% upward light • High performance photometric • Advanced thermal management • Maximised savings on energy and maintenance costs • Designed to ISEN13201-2 (2015) • Dimming to 75% between 12 midnight and 6am 	<p>The site lighting has been designed to provide a safe environment for pedestrians, cyclists and moving vehicles, to deter anti-social behaviour and to limit the environmental impact of artificial lighting on existing flora and fauna-in particular on bats in the area.</p> <p>Having PECU allows for the optimum operation of lighting which minimizes costs</p>
Electric Car Charging Points	<p>All parking will be future-proofed to allow the installation of E-car charging points to cater for E-car demand</p>	<p>Providing e-car charging points will allow occupants of Tandy's Lane Village Phase 2, to benefit from the ever-improving efficient electric car technologies.</p>

3.2 Materials & Buildings

Housing Units are designed in accordance with the Building Regulations, in particular Part D 'Materials and Workmanship', which includes all elements of the construction. The Design Principles and Specification are applied to the dwelling units and specific measures taken include:

<u>Item</u>	<u>Details</u>	<u>Benefits</u>
Long Term Maintenance and Service Life	<p>Consideration in the selection of materials is given to the requirements of the Building Regulations and includes reference to BS 7543:2015, 'Guide to Durability of Buildings and Building elements, Products and Components', which provides guidance on the durability, design life and predicted service life of buildings and their parts. Particular attention has been paid to the materials used in those parts of the public realm and building facades in order to complement the surrounding area, Adamstown and areas/streets beyond.</p>	<p>The long-term durability and maintenance of materials is an integral part of the design and specification of Tandy's Lane Village Phase 2 dwelling development.</p> <p>All common parts of the proposed development and, the durability and performance of these areas are designed & specified to optimise their life expectancy and enhance the living experience of all residents</p>

Cladding

The façades are a combination of natural brick and self-coloured rendered Blockwork cladding. By having two contrasting materials, the form of the building is broken down into two separate elements, presenting a high-quality finish.

Both products are robust with low maintenance and a low risk of damage as well as a life expectancy of over 50 years. At the lower levels robust cladding shall be used around the street realm to ensure a quality treatment to the visited areas, with good detailing ensuring minimal staining on façades.

The selected cladding façade options for Tandy's Lane Village Phase 2 dwelling units designed by MOLA Architecture, have a long-life expectancy and require medium-low / minimal maintenance.



Windows & Curtain Walling	<p>Tandy's Lane Village Phase 2 will have high quality double glazed thermally broken windows. The windows will achieve the best 'U' value with high quality glazing ensuring good transparency and solar energy transmittance with optimal acoustic attenuation.</p>	<p>The choice of windows for Tandy's Lane Village, Phase 2, will require low / minimal maintenance as well as manage heat gain and external noise and reduce condensation to glazing and frames.</p>
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<p>Hard Landscaping</p>	<p>The new street realm will be landscaped with high quality materials that are robust with high slip resistance.</p> <p>All materials will be designed to a high standard, will be robust and withstand a long-life.</p> <p>Shared surface areas will clearly identify priority to pedestrians and cyclists and deliver clear traffic calming measures.</p> <p>Furniture and equipment (e.g. play, exercise, fencing etc.), will be durable and robust with multifunctional uses.</p>	<p>The use of robust high-quality paving materials at Tandy's Lane Village Phase 2, designed by DOT Landscape Architects, is intended to provide materials that reduce the need for ongoing maintenance costs.</p> <p>Other materials such as for play, seating, fencing etc. are sustainable and robust material types that are designed to reduce the frequency and need for repair and maintenance over time at Tandy's Lane Village Phase 2.</p>
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Soft Landscaping

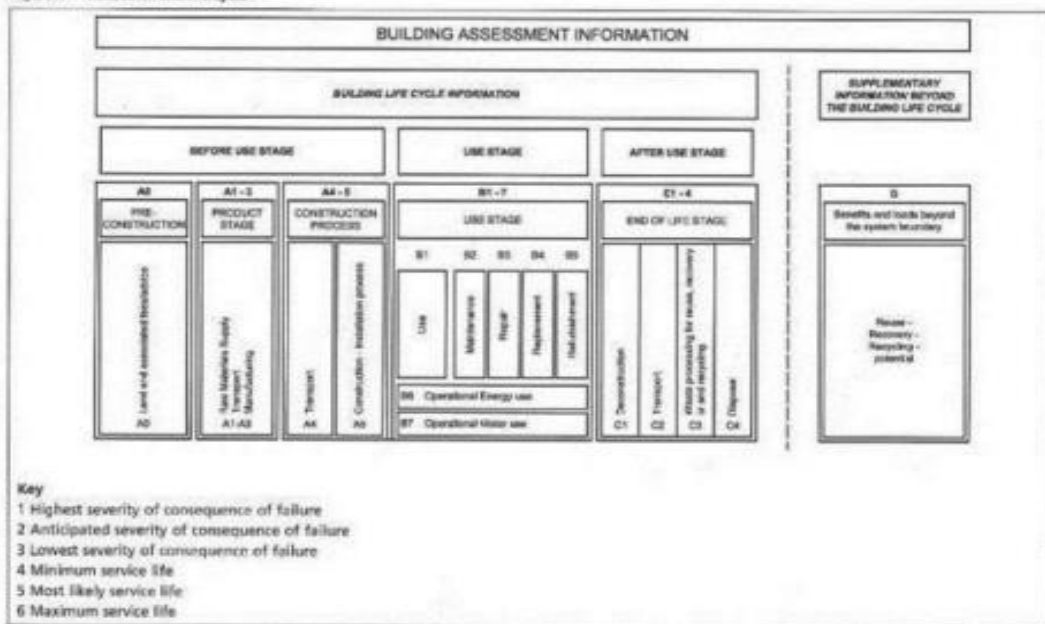
Tandy's Lane Village Phase 2 is former agricultural land within the tile of Adamstown SDZ.

Planting and 3No pocket parks, will be delivered to enhance the tranquil atmosphere and provide pleasant walks for all residents.

Adapting the existing landscape of Tandy's Lane Village Phase 2, to incorporate new houses while creating pedestrian and shared access is a positive feature that will add significantly to the living experience for all residents.

Management of green spaces and planting will feature strongly in the landscaping management regime, and this will further enhance the living experience for residents in providing interesting walks and tranquil surroundings for their use.

Figure 4 Phases of the life cycle



3.3 Health and Well-Being

The table below outlines measures related to health and well-being that have been incorporated into the Tandy's Lane Village Phase 2 Adamstown to manage and reduce the long-term costs for residents and enhance the overall living experience.

Health can cover physical, mental, emotional and social health factors. Wellbeing is strongly linked to happiness and life satisfaction.

Item	Details	Benefits
Activity & Usability Areas	<p>There are several activity areas provided in Tandy's Lane Village Phase 2 as per Phase 1 to include:</p> <ul style="list-style-type: none"> ▪ Residents children's playground as part of the estate; ▪ Outdoor living and dining areas; ▪ Informal play, outdoor gym equipment and grass areas for small ball games. ▪ Seating areas of varying sizes for groups of people, around the planted spaces. ▪ Landscaped walks through the estate and connecting to adjacent lands 	<p>The range of activity and usability areas incorporated into the internal and external common areas to Tandy's Lane Village development (Phase 1 & 2) promoting the health & well-being of residents.</p>
Traffic & Transport Assessment (TTA)	<p>The overall aim of the TTA for the proposed development is to minimise the proportion of single occupancy vehicle trips, including commuter-based trips, which have the greatest influence on traffic congestion, as well as leisure trips.</p>	<p>The TTA for Tandy's Lane Village Phase 2, will promote health, social and economic benefits of sustainable travel; including:</p> <ul style="list-style-type: none"> • To improve the travel options for residents; • To increase awareness of the available sustainable travel modes; • To minimise the incentives for private car usage; • To manage car use.
Personal Health & Fitness	<p>Active travel encouraged as part of the TTA enables people to enjoy health benefits as part of their daily routine. Choosing a sustainable travel mode can reduce the stress associated with commuting, bringing benefits to health, mood and job.</p> <p>Walking is of course free of charge and delivers additional health benefits and cycling can be undertaken at a very modest cost in comparison with car ownership.</p>	<p>The measures implemented within the Traffic & Transport Assessment will raise awareness and support residents of the overall, Tandy's Lane Village Phase 2 development to become more active and through this to be healthier, fitter and more productive by encouraging physical exercise as part of residents' day-to-day travel behaviour. There are also added financial benefits to using sustainable modes of transport as opposed to private car trips.</p>

Environmental Benefits	<p>Climate change is one of the most significant challenges facing the world today. If unaddressed, it has the potential for far reaching economic and societal impacts both locally and internationally.</p> <p>Globally, transport is the fastest growing source of greenhouse gas emissions, particularly carbon dioxide.</p>	<p>Changes to reduce greenhouse gas emissions at a local level, like Tandy's Lane Village Phase 2, can combine to have a real impact on overall emissions to benefit the health of residents</p>
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Welcome Travel Pack	<p>The Welcome Travel Pack will include a variety of sustainable transport information, including:</p> <ul style="list-style-type: none"> • Information on the health benefits of walking and cycling; • Advice on ways to reduce the need to travel and details of club cars and shared bicycle schemes in the area • Details of the benefits of journey sharing, such as reduced congestion, better air quality, reduction in traffic noise and cost savings to the individuals taking part; and • Provide information on the financial and environmental costs associated with driving. 	<p>The implementation of the Welcome Travel Pack for the overall Tandy's Lane Village development will highlight many of the measures in the proposed development to encourage residents to travel sustainably</p>
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Walking	<p>The proposed development will have multiple access points to integrate into the local area, making use of the existing pedestrian links together with public transport opportunities. Several locations such as supermarkets, schools, cinemas, public transport stations and multiple shops and restaurants are easily accessible by good quality footways. It is expected that the surrounding network of pedestrian infrastructure is suitable to accommodate additional trips on-foot generated by the proposed development. The proximity of the overall Tandy's Lane Village (Phase 1 & 2) development to the local public amenity areas offers amenities to residents of the estate.</p>	<p>Walking is of course free of charge and is the most sustainable form of travel and improves the health of individuals.</p>
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Cycling	<p>The proposed development is well situated with regards to cycling facilities with cycle lanes, on and off-road routes and cycle parking racks located within the vicinity of the development.</p> <p>High quality and aesthetically pleasing secure bicycle racks, strategically placed, externally to encourage bicycle use within the development</p>	<p>Cycling can be undertaken at a very modest cost in comparison with car ownership. Secure visitor bicycle storage will encourage visitors to travel by bicycle.</p>
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Open Space

The open space will enjoy a good level of natural surveillance from the houses so that users of the open space will feel comfortable and safe.

By creating a strong relationship between the private and public space at Tandy's Lane Village development, residents will be encouraged to feel a strong sense of ownership over the public realm.

This will serve to reinforce the safety and security of the public realm by ensuring that anti-social behaviour will not go unchallenged.

3.4 Landscaping

Measure	Description	Benefit
Reference Section 2.2.8. of this report		
	Hard Landscaping	<ul style="list-style-type: none"> Requires minimum on-going maintenance.
	Soft Landscaping	<ul style="list-style-type: none"> Requires minimum on-going maintenance

3.5 Waste Management

The following measures illustrate the intentions for the management of Waste (where required)

Measure	Description	Benefit
Construction Waste Management Plan	A construction management and plan has been completed prior to commencement on site. The management plan covers waste management, licensing etc.	The report ensures that the construction phase will be managed to comply with best practice.
Operational Waste Management Plan	Operational waste has been reviewed by the appointed design team. All bin storage is on grade, with communal bin stores for the Multi-Unit buildings.	The report will ensure that the operational waste can be managed in an efficient and cost effective manner.
Storage of Non-Recyclable Waste and Recyclable Household Waste	Domestic waste management strategy: <ul style="list-style-type: none"> Grey, Brown, Green and glass bin distinction Competitive tender for waste management collection Weekly collection of all communal waste bins Well lit, clean, ventilated communal bin stores with guidance regarding recycling and waste area usage 	Encourages the proper segregation of waste, achieving economies of scale and educating residents on recycling and composting
Comping	Organic waste bins to be provided throughout.	Helps reduce potential waste charges.



3.6 Management

Consideration has been given to ensure the homeowners have a clear understanding of their property.

Measure	Description	Benefit
House User Guide	<p>Once a purchaser completes their sale, a homeowner file will be provided which will include:</p> <p>Homeowner manual – this will provide important information for the purchaser on details of their new property. It typically includes details of the property such as Meter Point Reference Number (MPRN) and Gas Point Reference Number (GPRN), Information in relation to connect with utilities and communication providers, Contact details for all relevant suppliers and User Instructions for appliances and devices in the property. The manual will also contain details in respect of the owner’s management company and service charge budget for the first year.</p> <p>A Residents Pack prepared by the OMC which will typically provide information on contact details for the Managing agent, emergency contact information, transport links, operational details, communal facilities and a clear set of rules and regulations.</p>	<p>Residents and owners are instructed from the outset as to the optimum function of their own property and the wider functions and facilities of the OMC to encourage the enjoyment of the estate and its features.</p>

3.7 Transport

Measure	Measure Description	Benefit
Access to Public Transport (Bus & DART Services)	A total of five Dublin Bus services & Go-Ahead, service Adamstown including two Nitelink services. Aircoach serves Dublin Airport and a frequent train service operates from Heuston Station to Adamstown within close proximity to the subject site.	The proximity, frequency and range of destinations served by these transport services enhance the accessibility levels of the proposed residential development in addition to providing a viable and practical sustainable alternative to journeys undertaken by private motor car.
Permeable Connections	Provision and subsequent maintenance of dedicated pedestrian and cycle infrastructure onsite, and their connectivity with adjoining third party lands and the off-site networks.	Ensure the long-term attractiveness of walking and cycling to a range of local education, retail and community facilities and services.
Bicycle Storage	The provision of high-quality secure bicycle parking facilities, for both short term and long-term parking requirements.	Accommodates the uptake of cycling and reducing the reliance on the private motor vehicle.
Motorcycle/Scooter Parking	The possible implementation of secure, attractive, best practice motorcycle/scooter parking facilities for residents. This provision could generally be within the curtilage of the dwelling if required by the residents	Reduces the reliance on the private motor vehicle in parallel with reducing oil dependency

4.0. Appendices

Appendix A
(Sample Annual Service Charge Budget)

**Tandy's Lane Village Phase 2, Adamstown, Lucan
Co. Dublin - 347 No Dwelling Units - Common Area**

A.N. Other Property Management

**Annual Service Budget Estimate
For the year ending 31st December 2023**

UTILITIES

- 1 Electricity - Common Area
- 2 Telephone (Lift Emergency)

SOFT SERVICES

- 3 Cleaning & Environmental incl Foul Drainage System
- 4 Security Emergency call outs(if required)
- 6 General Landscaping
- 7 Waste Management - General Litter picking
- 8 Pest Control

HARD SERVICES

- 9 Building Maintenance
- 10 Mechanical & Electrical Maintenance
- 11 Drainage Systems incl equipment
- 12 Fire & Life Safety Systems - Hydrant clean etc

INSURANCES

- 13 Insurances cost

MANAGEMENT COSTS

- 14 Management Fees
 - 15 Annual Audit Fees
 - 16 Health, Safety & Environmental Audits
- Grand Total Residential Dwellings (347 No Units)**

- 17 Sinking Fund

Grand Total 347 Dwellings

	Net Budget	Vat	Gross Budget	Per unit Gross Budget
	31/12/2023	31/12/2023	31/12/2023	31/12/2023
	66,650	8,998	75,648	218
	0	0	0	0
	10,090	1,362	11,452	33
	1,975	454	2,429	7
	20,593	4,736	25,330	73
	4,929	1,134	6,063	17
	2,957	681	3,638	11
	10,440	2,400	12,840	37
	8,015	1,843	9,858	28
	10,844	1,464	12,308	36
	7,098	1,632	8,730	25
	83,975	0	83,975	242
	12,500	2,875	15,375	44
	7,500	1,725	9,225	27
	15,230	3,504	18,734	54
Grand Total Residential Dwellings (347 No Units)	262,796	32,808	295,605	852
	69,400	0	69,400	200
Grand Total 347 Dwellings	332,196	32,808	365,005	1,052

Appendix B
(Sample Asset Register)

ASSET REGISTER Tandy's Lane Village Phase 2			
Ref	Element	Life Expectancy	Yearly estimate of costs year 1 to year 30
1.00	Roof		
1.01	Pitched Roof, finishes along with with insulation – manufacturers guarantee	40	€850
1.02	Replacement parapet details	20	€200
1.03	Replace roof access hatches	25	€50
1.04	Specialist Roof Systems- Fall arrest	25	€600
2.00	Elevations		
2.01	Decorate rendered panels to apartments/ houses	3	€6,100
2.02	Minor repairs and preparation for decorations of rendered areas	3	€500
2.03	Replace exit/ entrance doors	25	€300
2.04	Replace Rainwater goods	25	€300
2.05	Recoat powder coated Finishes to balconies (if in managed areas)	20	-
2.06	Periodic replacement and overhauling of external fixings	5	-
2.07	Replace Balcony floor finishes (if part of management areas)	25	€300
2.08	Paint external rendered elevations	3	€500
3.00	Stair cores & lobbies		
3.01	Decorate Ceilings	5	€3,000
3.02	Decorate Walls	5	€3,500
3.03	Decorate Joinery	5	€4,400
3.04	Replace fire doors	25	€800
3.05	Replace floor finishes (stairwells & lobbies)	10	€2,250
3.06	Replace entrance mats	10	€2,150
3.07	Replace nosing's	12	€2,000
3.08			
3.09	Fixed Furniture & Equipment- Provisional Sum	18	€1,700
4.00	M&E Services		
4.01	General- Internal re-lamping	7	€700
4.02	Replace Internal light fittings	18	€500

4.03	Replace External light fittings (lights at entrance lobbies)	18	€275
4.04	Replace smoke detector heads	18	€325
4.05	Replace manual break glass units	18	€275
4.06	Replace Fire alarm panel	18	€285

4.07	Replace Lift cars and controls		-
4.08	Replace AOV's	25	€185
4.09	Replace security access control installation	15	€275
4.10	Sump pumps replacement		-
4.11	External Mains Water connection	20	€200
4.12	Electrical Mains and Sub Mains distribution	20	€200
4.13	Emergency Lighting	20	€185
5.00	Exterior		
5.01	Repaint Parking Spaces & Numbering	5	€800
5.02	Replace Bicycle Stands	25	€290
5.03	External boundary treatments - Recoat powder coated Finishes to railings	40	€175
5.04	Replace cobble lock areas	18	€125
5.05	15-year cutback & thinning of trees. Overhaul landscaping	15	€1,100
5.06	Replace CCTV provision	12	€175
5.07	External Handrails and balustrade	18	€215
6.0	Management & Security Office (if provided)		To be confirmed
6.01	Decorate Ceilings	7	
6.02	Decorate Walls	7	
6.03	Decorate Joinery	7	
6.04	Replace fire doors	25	
6.05	Replace carpets and acoustic floor coverings	12	
6.06	Replace tiled floors and walls	15	
6.07	Changing rooms, washrooms and showers	15	
6.08	Fixed Furniture & Equipment- Provisional Sum	18	
6.09	Management Office Desks and Chairs	10	
6.10	Management Office IT	5	
6.11	Intruder Alarms	15	

Total without Management Office

€35,785



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