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Phase 2- The Farm- Bessborough

1. INTRODUCTION

Estuary View Enterprises 2020 Limited intend to apply to An Bord Pleanála for permission for a strategic housing development at Bessborough, Ballinure, Blackrock, Cork.

The proposed development provides for the demolition of 10 no. existing agricultural buildings /sheds and log cabin residential structure and the construction of a residential development of 140 no. residential apartment units over 2 no. retained and repurposed farmyard buildings (A & B) with single storey extension and 3 no. new blocks of 3-5 storeys in height, with supporting resident amenity facilities, crèche, and all ancillary site development works.

The proposed development includes 140 no. apartments to be provided as follows: Block C (9 no. 1-bedroom and 25 no. 2-bedroom over 3 storeys), Block D (34 no. 1-bedroom & 24 no. 2-bedroom over 3-4 storeys), Block E (27 no. 1-bedroom, 20 no. 2-bedroom & 1 no. 3-bedroom over 4-5 storeys). It is proposed to use retained Block A and Block B for resident amenities which include home workspace, library, lounge and function space.



Figure 1: Phase 2- The Farm- Bessborough | Extract from Site Plan | NTS

Page 1 Introduction

Phase 2- The Farm- Bessborough Waste Management Plan

The proposal includes a new pedestrian/cycle bridge over the adjoining Passage West Greenway to the east, connecting into the existing down ramp from Mahon providing direct access to the greenway and wider areas, as well as new pedestrian access to Bessborough Estate to the north including upgrades to an existing pedestrian crossing on Bessboro Road.

The proposed development provides for outdoor amenity areas including publicly accessible parkland, landscaping, surface car parking, bicycle parking, bin stores, substation, public lighting, roof mounted solar panels, wastewater infrastructure including new inlet sewer to the Bessborough Wastewater Pumping Station to the west, surface water attenuation, water utility services and all ancillary site development works. Vehicular access to the proposed development will be provided via the existing access road off the Bessboro Road.

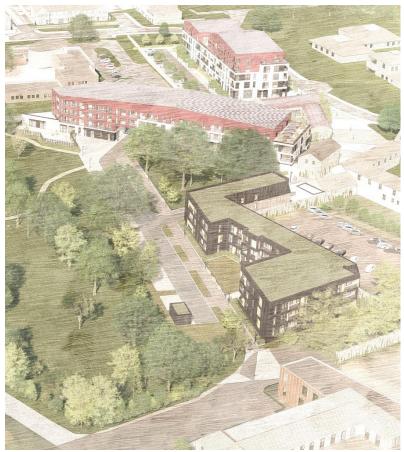


Figure 2: Phase 2- The Farm- Bessborough | Aerial View

Page 2 Introduction

Phase 2- The Farm- Bessborough



Figure 3: Phase 2- The Farm- Bessborough | View from Street Level

Both residential and ancillary waste will be generated by the scheme. All required bins and associated equipment will be stored in designated and segregated areas local to each building. Each refuse room is accessible to upper apartment by central stair and lift cores.

Adequate provisions have been made to facilitate the disposal of dry mixed recyclables, residual waste, organic waste, glass and waste electrical and electronic equipment (WEEE). A standard 60" vertical baler is also provided on site for general use.

Page 3 Introduction

2. PLANNING AND POLICY

The Farm, Bessborough, adheres to Cork City Council (Segregation, Storage and Presentation of Household and Commercial Waste) Bye-Laws, 2019. The main provisions of the bye-laws are:

- To ensure all citizens dispose of their waste by using an authorised waste contractor or by taking it to an authorised waste facility or by sharing bins by written agreement.
- To maximise the use of Wheelbins and limit (by designation by Cork City Council) the areas where bags can be presented.
- To define how wheelbins are to be presented.
- To ensure segregation of waste at source.
- Where wheelbins or branded bags, purchased from authorised waste collectors, are not used that documentation/receipts are kept to demonstrate proper disposal of waste.
- To restrict the storage of wheelbins on public roads or footpaths.¹

Storage and collection of waste will be undertaken on site in accordance with the Cork City Development Plan 2015-2021 and the standard BS 5906:2005 Waste Code of Practice.

Section 12.22 of the Development plan sets out the following guidelines related to design standards for proposed developments: "The incorporation of adequate waste storage facilities and management procedures in private developments is critical to ensure the effective separation of waste streams in a manner that maintains residential amenity." A new Cork City Development Plan is currently being prepared which sets out the priorities for the city for a 6-year period from 2022 to 2028.

1 The Cork City Council (Segregation, Storage and Presentation of Household and Commercial Waste) Bye-Laws 2019. Source: https://www.corkcity.ie/en/council-services/news-room/latest-news/new-byelaws-relating-to-household-and-commercial-waste-enacted.html. Accessed 21-03-2022.

2 Cork City Development Plan 2015-2021. Section 12.22: Design Standards. Source: https://www.corkcity.ie/en/existing-cork-city-development-plan-2015-2021/. Accessed 21-03-2022.

Page 4 Planning and Policy

The European Commission's Circular Economy Action Plan: For a Cleaner More Competitive Europe⁴ was adopted in 2020, and promotes a transition towards the principles of a circular economy, facilitating the use of materials at their highest value for as long as possible and then recycling or reusing them at the end of their service life with the end result being the generation of minimal waste.

The government's Waste Action Plan for a Circular Economy-Ireland's National Waste Policy 2020- 2025², endorses this approach and aims to shift the focus of waste management away from waste disposal and treatment to ensure that materials and products remain in productive use for longer. This is aimed at preventing waste and supporting reuse through a policy framework that discourages the wasting of resources and rewards circularity.

Currently, Cork City is part of the Southern Waste Region. The strategic vision of the Southern Region Waste Management

Plan 2015-2021 is to rethink our approach to managing waste, by viewing our waste streams as valuable material resources, leading to a healthier environment and sustainable commercial opportunities for our economy.³

Particular emphasis is placed on preventing and designing out waste at the initial stage of any activity, thus achieving the highest level of the waste hierarchy, namely waste prevention.

The Southern Region Waste Management Office has commenced the process of drafting the next Waste Management Plan.⁴ This proposal supports the sustainable management of waste in line with the objectives of the Southern Region Waste Management Plan 2015-2021 and its successor.

4 Ibid.

¹ The European Commission's Circular Economy Action Plan: For a Cleaner More Competitive Europe. Source: https://ec.europa.eu/environment/circular-economy/. Accessed 21-03-2022. 2 A Waste Action Plan for a Circular Economy: Ireland's National Waste Policy 2020-2025. Source: https://www.gov.ie/en/publication/4221c-waste-action-plan-for-acircular-economy/. Accessed 21-03-2022.

³ Southern Region Waste Management Plan 2015 – 2021. Source: http://southernwasteregion.ie/content/southern-region-waste-management-plan-2015-2021-associated-reports. Accessed 21-03-2022.



Figure 3: The Waste Hierarchy1

This proposal acknowledges that policies and objectives in relation to waste management in Cork City are reflective of overarching EU, National and Regional policy and legislation.

The European Commission adopted the new circular economy action plan (CEAP) in March 2020. It is one of the main building blocks of the European Green Deal, Europe's new agenda for sustainable growth. It is also a prerequisite to achieve the EU's 2050 climate neutrality target and to halt biodiversity loss. Measures that will be introduced under the new action plan aim to:

- make sustainable products the norm in the EU
- empower consumers and public buyers
- focus on the sectors that use most resources and where the
 potential for circularity is high such as: electronics and ICT,
 batteries and vehicles, packaging, plastics, textiles,
 construction and buildings, food, water and nutrients
- ensure less waste
- make circularity work for people, regions and cities
- lead global efforts on circular economy²

This Waste Management Plan is assembled in accordance with the amended Planning and Development Act 2000 and Section 22(10A) of the Waste Management Acts 1996-2008 as the objectives for waste recovery and disposal facilities within the development are outlined.

Page 6 Planning and Policy

¹ Waste Prevention and Management. Source: https://ec.europa.eu/environment/green-growth/waste-prevention-and-management. Accessed 21-03-2022.

2 Circular Economy Action Plan. Source: https://ec.europa.eu/environment/green-growth/waste-prevention-and-management. Source: https://ec.europa.eu/environment/green-growth/waste-prevention-and-management. Source: https://ec.europa.eu/environment/strategy/circular-economy-action-plan_en#ecl-inpage-872. Accessed 21-03-2022.

3. WASTE CALCULATION

ASSUMPTIONS

- Occupancy rates are assumed to be 1 person per studio apartment, 2 persons per one bed apartments, 4 persons per 2 bed apartment and 6 persons per 3 bed apartment.
- Household waste will be source separated into recyclables, residual, and organic wastes. Wheeled bins will be available in waste storage rooms also for WEEE and waste glass.
- It is assumed that approximately 60% of waste generated will be dry mixed recyclables. 30% of waste generated will be residual waste, and 10% of waste generated will be organic waste. The waste management system will be flexible to allow for increases in the proportion of source segregated recyclables and reduction of residual wastes in the future. This includes the European Commission's 70% target for re-use and recycling of waste by 2030.1

- Once weekly waste collection per waste type of residential & other waste is assumed for the purpose of these calculations.
- It is assumed that all waste will be delivered by householders to basement level communal waste stores. Communal waste rooms will be located in each podium basement for each building block, representing one communal waste room per two blocks.
- The EPA reported a household waste generation rate per capita of 321kg per annum for 2017, the most recent year for which published data is available.²
- Density of 0.21 tonnes/m3 or 0.21 tonnes/1000 litres for waste calculations.

https://ec.europa.eu/commission/presscorner/detail/el/MEMO_14_450. Accessed 21-03-2022. 2 Household Waste Statistics for Ireland. Source: https://www.epa.ie/publications/monitoring-assessment/waste/national-waste-statistics/Household-Waste-2017-data.pdf. Accessed 21-03-2022.

Page 7 Waste Calculation

¹ Towards a Circular Economy. Source:

| Waste Type | Residential | Refuse Room No. | RFC1 | Waste Estimation (Recycling, Residual, Organic) | 3,380 ltr. | |
|------------------|-------------|------------------------|--------------------|---|--|--|
| Building | С | Refuse Room Area | 37.4m ² | Waste Provision (Recycling, Residual, Organic) | 3,780 ltr. | |
| No. Apartments | 34 | 1100ltr. Bins Provided | 4 | Additional Provisions (Glass, WEEE) | 1,820 ltr. | |
| Collection Point | С | 240ltr. Bins Provided | 5 | Total Provisions | <u>5,600 ltr.</u> | |
| | | | | | Building C Refuse Room RFC1 Collection Point C | |

| | Municipal Solid Waste (MSW) Estimation | | | | | | | | | |
|----------|--|-------------|------------------|-------------------|--------------------|------------------------------|------------------|--|--|--|
| Apt Type | Occupancy per apt. | No. of apts | Total population | Waste/annum* (kg) | Waste/annum** (m³) | Waste/week (m ³) | Waste/week (Itr) | | | |
| 1 BED 2P | 2 | 9 | 18 | 5,778 | 27.51 | 0.53 | 529 | | | |
| 2 BED 3P | 3 | 3 | 9 | 2,889 | 13.76 | 0.26 | 265 | | | |
| 2 BED 4P | 4 | 22 | 88 | 28,248 | 134.51 | 2.59 | 2587 | | | |
| 3 BED 6P | 6 | 0 | 0 | 0 | 0.00 | 0.00 | 0 | | | |
| | Total | 34 | 115 | 36,915 | 175.79 | 3.38 | 3380 | | | |

| WASTE CATEGORY SPLIT | | | | | | | | | | |
|-----------------------------|------|------------------|---------------------------|--------------------------|--------------------------------|--|--|--|--|--|
| Waste Type | % | Waste/week (ltr) | No. 1100ltr bins required | No. 240ltr bins required | Total Waste Provision (ltr) | | | | | |
| Municipal Solid Waste (MSW) | 100% | 3380 | | | | | | | | |
| Dry mixed recyclables | 60% | 2028 | 2 | | 2200 | | | | | |
| Residual Waste | 30% | 1014 | 1 | | 1100 | | | | | |
| Organic Waste | 10% | 338 | | 2 | 480 | | | | | |
| | | Subtotal | 3 | 2 | 3780 | | | | | |

| Additional Waste Provisions | | | | |
|-----------------------------|-----------|---|---|------|
| Glass Recycling | | | 3 | 720 |
| WEEE | | 1 | | 1100 |
| | Subtotal: | 1 | 3 | 1820 |
| *321 kg/person/annum | | | | |
| **210 kg/m³ =waste density | Total: | 4 | 5 | 5600 |

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| Waste Type | Residential | Refuse Room No. | RFD1 | Waste Estimation (Recycling, Residual, Organic) | <u>4,645 ltr.</u> |
|------------------|-------------|------------------------|--------------------|---|--|
| Building | D | Refuse Room Area | 38.5m ² | Waste Provision (Recycling, Residual, Organic) | 5,980 ltr. |
| No. Apartments | 58 | 1100ltr. Bins Provided | 6 | Additional Provisions (Glass, WEEE) | 1,820 ltr. |
| Collection Point | D | 240ltr. Bins Provided | 5 | Total Provisions | 7,800 ltr. |
| | | | | | Building D Refuse Room RFD1 Collection Point D |

| | Municipal Solid Waste (MSW) Estimation | | | | | | | | | |
|----------|--|-------------|------------------|-------------------|--------------------|------------------------------|------------------|--|--|--|
| Apt Type | Occupancy per apt. | No. of apts | Total population | Waste/annum* (kg) | Waste/annum** (m³) | Waste/week (m ³) | Waste/week (ltr) | | | |
| 1 BED 2P | 2 | 34 | 68 | 21,828 | 103.94 | 2.0 | 1999 | | | |
| 2 BED 3P | 3 | 6 | 18 | 5,778 | 27.51 | 0.53 | 529 | | | |
| 2 BED 4P | 4 | 18 | 72 | 23,112 | 110.06 | 2.12 | 2116 | | | |
| 3 BED 6P | 6 | 0 | 0 | 0 | 0.00 | 0.00 | 0 | | | |
| | Total | 58 | 158 | 50,718 | 241.51 | 4.64 | 4645 | | | |

| WASTE CATEGORY SPLIT | | | | | | | | | |
|-----------------------------|------|------------------|---------------------------|--------------------------|--------------------------------|--|--|--|--|
| Waste Type | % | Waste/week (ltr) | No. 1100ltr bins required | No. 240ltr bins required | Total Waste Provision (ltr) | | | | |
| Municipal Solid Waste (MSW) | 100% | 4645 | | | | | | | |
| Dry mixed recyclables | 60% | 2787 | 3 | | 3300 | | | | |
| Residual Waste | 30% | 1393 | 2 | | 2200 | | | | |
| Organic Waste | 10% | 464 | | 2 | 480 | | | | |
| | | Subtotal | 5 | 2 | 5980 | | | | |

| Additional Waste Provisions | | | | |
|-----------------------------|-----------|---|---|------|
| Glass Recycling | | | 3 | 720 |
| WEEE | | 1 | | 1100 |
| | Subtotal: | 1 | 3 | 1820 |
| *321 kg/person/annum | • | | | |
| **210 kg/m³ =waste density | Total: | 6 | 5 | 7800 |

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| Waste Type | Residential | Refuse Room No. | RFE1 | Waste Estimation (Recycling, Residual, Organic) | <u>4,027 ltr.</u> | |
|------------------|-------------|------------------------|--------------------|---|--|---|
| Building | E | Refuse Room Area | 24.6m ² | Waste Provision (Recycling, Residual, Organic) | 5,980 ltr. | |
| No. Apartments | 48 | 1100ltr. Bins Provided | 6 | Additional Provisions (Glass, WEEE) | 1,820 ltr. | 1 |
| Collection Point | E | 240ltr. Bins Provided | 5 | Total Provisions | <u>7,800 ltr.</u> | |
| | | | | | Building D Refuse Room RFD1 Collection Point D | |

| | Municipal Solid Waste (MSW) Estimation | | | | | | | | | |
|----------|--|-------------|------------------|-------------------|--------------------|------------------------------|------------------|--|--|--|
| Apt Type | Occupancy per apt. | No. of apts | Total population | Waste/annum* (kg) | Waste/annum** (m³) | Waste/week (m ³) | Waste/week (ltr) | | | |
| 1 BED 2P | 2 | 27 | 54 | 17,334 | 82.54 | 1.59 | 1587 | | | |
| 2 BED 3P | 3 | 3 | 9 | 2,889 | 13.76 | 0.26 | 265 | | | |
| 2 BED 4P | 4 | 17 | 68 | 21,828 | 103.94 | 2.0 | 1999 | | | |
| 3 BED 6P | 6 | 1 | 6 | 1,926 | 9.17 | 0.18 | 176 | | | |
| | Total | 48 | 137 | 43,977 | 209.41 | 4.03 | 4027 | | | |

| WASTE CATEGORY SPLIT | | | | | | | |
|-----------------------------|------|------------------|---------------------------|--------------------------|--------------------------------|--|--|
| Waste Type | % | Waste/week (ltr) | No. 1100ltr bins required | No. 240ltr bins required | Total Waste Provision (ltr) | | |
| Municipal Solid Waste (MSW) | 100% | 4645 | | | | | |
| Dry mixed recyclables | 60% | 2787 | 3 | | 3300 | | |
| Residual Waste | 30% | 1393 | 2 | | 2200 | | |
| Organic Waste | 10% | 464 | | 2 | 480 | | |
| | | Subtotal | 5 | 2 | 5980 | | |

| Additional Waste Provisions | | | | |
|-----------------------------|-----------|---|---|------|
| Glass Recycling | | | 3 | 720 |
| WEEE | | 1 | | 1100 |
| | Subtotal: | 1 | 3 | 1820 |
| *321 kg/person/annum | • | | | |
| **210 kg/m³ =waste density | Total: | 6 | 5 | 7800 |

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Collection Point D

| Waste Type | Ancillary | Refuse Room No. | RFD1 | Waste Estimation (Recycling, Residual, Organic) | <u>1,068ltr.</u> |
|------------------|---------------------|------------------------|--------------------|---|------------------------------------|
| Building | D | Refuse Room Area | 38.5m ² | Waste Provision (Recycling, Residual, Organic) | 1,820tr. |
| Total Area | 565.1m ² | 1100ltr. Bins Provided | 1 | Additional Provisions (Glass, WEEE) | 480ltr. |
| Collection Point | D | 240ltr. Bins Provided | 5 | Total Provisions | <u>2300ltr.</u> |
| | | | | = | Communal Areas Refuse Room RFD1 |



| Municipal Solid Waste (MSW) Estimation | | | | | | |
|--|--------------------------------|-------|----------------|------------------|--|--|
| Ancillary Use | day output (ltrs/100m2/day) | Area | operation days | Waste/week (Itr) | | |
| LOUNGE 1+LOBBY (BUILDING D) | 27 | 113.3 | 7 | 214.137 | | |
| STAFF ROOM + CONCIERGE (BUILDING D) | 27 | 14.1 | 7 | 26.649 | | |
| FUNCTION ROOM (BUILDING A) | 27 | 70.1 | 7 | 132.489 | | |
| LIBRARY+COMMUNAL WORKSPACE+SUN LOUNGE (BUILDING B) | 27 | 367.6 | 7 | 695 | | |

| | | | | Total: | 1068 | | | |
|-----------------------------|----------------------|------------------|---------------------------|--------------------------|--------------------------------|--|--|--|
| | WASTE CATEGORY SPLIT | | | | | | | |
| Waste Type | % | Waste/week (Itr) | No. 1100ltr bins required | No. 240ltr bins required | Total Waste Provision (ltr) | | | |
| Municipal Solid Waste (MSW) | 100% | 1068 | | | | | | |
| Dry mixed recyclables | 60% | 641 | 1 | | 1100 | | | |
| Residual Waste | 30% | 320 | 0 | 2 | 480 | | | |
| Organic Waste | 10% | 107 | | 1 | 240 | | | |
| | | Subtotal | 1 | 3 | 1820 | | | |

| Additional Waste Provisions Glass Recycling | | | 2 | 480 |
|--|-----------|---|---|------|
| | Subtotal: | 0 | 2 | 480 |
| 210 kg / 1000 ltr = waste density | Total: | 1 | 5 | 2300 |

210 kg / 1000 ltr = waste density

| Waste Type | Ancillary | Refuse Room No. | RFD2 | Waste Estimation (Recycling, Residual, Organic) | <u> 268ltr.</u> |
|------------------|--------------------|------------------------|--------------------|---|--|
| Building | D | Refuse Room Area | 24.2m ² | Waste Provision (Recycling, Residual, Organic) | 2440tr. |
| Total Area | 236 m ² | 1100ltr. Bins Provided | 3 | Additional Provisions (Glass, WEEE) | 1340ltr. |
| Collection Point | D | 240ltr. Bins Provided | 2 | Total Provisions | 3780ltr. |
| | | | | | CRECHE Refuse Room RFD2 Collection Point D |

| Municipal Solid Waste (MSW) Estimation | | | | | |
|--|--------------------------------|--------------|----------------|-----------------|------------------|
| Ancilliary Use | day output (ltrs/100m2/day) | No. Children | operation days | Waste/week (kg) | Waste/week (ltr) |
| CRECHE | 450 | 25 | 5 | 56.25 | 267.86 |

| | WASTE CA | TEGORY SPLIT | | | |
|-----------------------------|----------|------------------|---------------------------|--------------------------|--------------------------------|
| Waste Type | % | Waste/week (ltr) | No. 1100ltr bins required | No. 240ltr bins required | Total Waste Provision (ltr) |
| Municipal Solid Waste (MSW) | 100% | 268 | | | |
| Dry mixed recyclables | 60% | 161 | 1 | | 1100 |
| Residual Waste | 30% | 80 | 1 | | 1100 |
| Organic Waste | 10% | 27 | | 1 | 240 |
| | | Subtotal | 2 | 1 | 2440 |
| Additional Waste Provisions | | | | | |
| Glass Recycling WEEE | | | 1 | 1 | 240 1100 |
| | | Subtotal: | 1 | 1 | 1340 |
| | | Total: | 3 | 5 | 3780 |

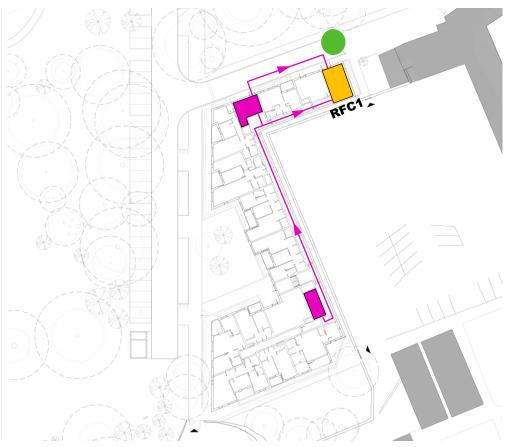
| Waste Type | Ancillary | Refuse Room No. | RFE1 | Waste Estimation (Recycling, Residual, Organic) | <u>475ltr.</u> |
|------------------|---------------------|------------------------|--------------------|---|---|
| Building | E | Refuse Room Area | 24.2m ² | Waste Provision (Recycling, Residual, Organic) | 960tr. |
| Total Area | 95.6 m ² | 1100ltr. Bins Provided | 0 | Additional Provisions (Glass, WEEE) | 240ltr. |
| Collection Point | E | 240ltr. Bins Provided | 5 | Total Provisions | <u>1200ltr.</u> |
| | | | | | GYM Refuse Room RFE1 Collection Point E |

| | Municipal Solid Waste (MSW) Estimation | | | |
|---------------|--|------|----------------|------------------|
| Ancillary Use | day output (ltrs/100m2/day) | Area | operation days | Waste/week (ltr) |
| GYM | 71 | 95.6 | 7 | 475 |
| | | | Total: | 475 |

| WASTE CATEGORY SPLIT | | | | | | | |
|-----------------------------|------|------------------|---------------------------|--------------------------|--------------------------------|--|--|
| Waste Type | % | Waste/week (ltr) | No. 1100ltr bins required | No. 240ltr bins required | Total Waste Provision (ltr) | | |
| Municipal Solid Waste (MSW) | 100% | 268 | | | | | |
| Dry mixed recyclables | 60% | 161 | | 2 | 480 | | |
| Residual Waste | 30% | 80 | | 1 | 240 | | |
| Organic Waste | 10% | 27 | | 1 | 240 | | |
| | | Subtotal | 0 | 1 | 960 | | |

| | Total: | | 5 | 1200 |
|-----------------------------|-----------|---|---|------|
| | | | | |
| | Subtotal: | 0 | 1 | 240 |
| WEEE | | 0 | | 0 |
| Glass Recycling | | | 1 | 240 |
| Additional Waste Provisions | | | | |

4. WASTE DISPOSAL WITHIN DEVELOPMENT



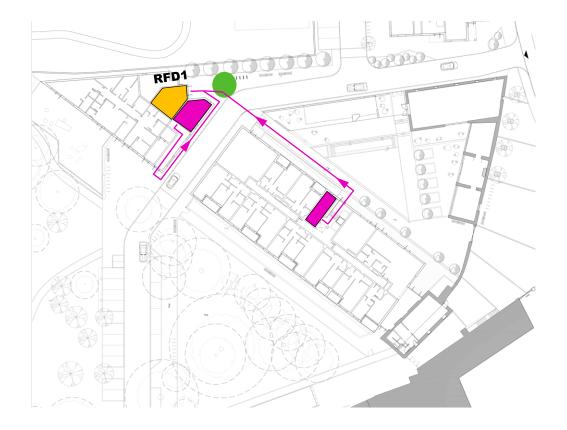
RESIDENTIAL: BUILDING C

As it is assumed that all waste will be delivered by householders to ground floor level waste stores, design measures have been taken to ensure the ease and safety of this delivery.

Figure 4 & 5 illustrate the most direct path from each residential stair and lift core to the buildings designated refuse room on the ground floor level.







RESIDENTIAL: BUILDING D

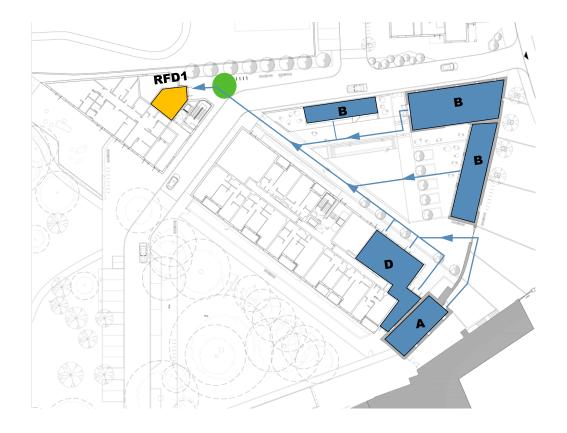


REFUSE ROOM

CORE LIFT & STAIR ACCESS

COLLECTION POINT





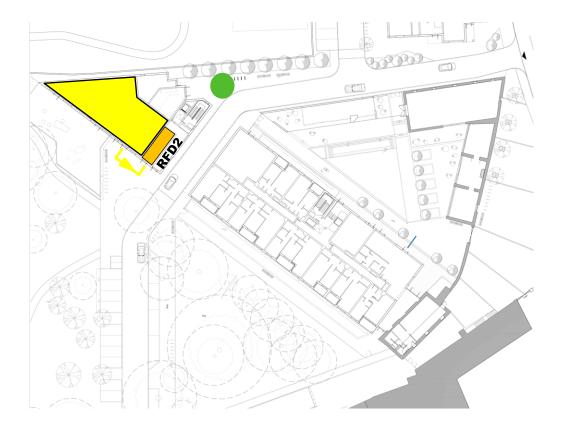
ANCILLARY - COMMUNAL AREAS

Refuse Room RFD1 serves all Public Amenity Areas within buildings A, B and D as well as the residents of Building D. As shown in *Figure 6*, each Ancillary space has efficient access to the Refuse Room provided.





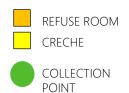




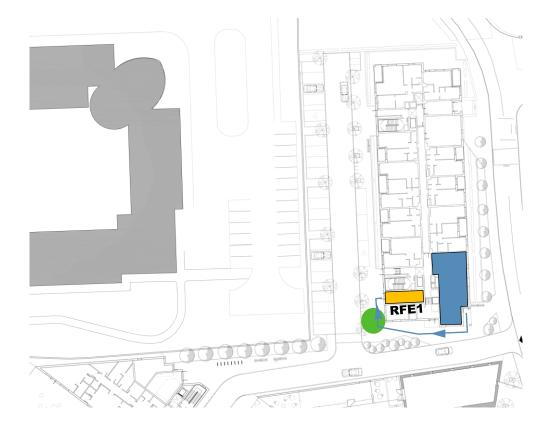
ANCILLARY - CRECHE

Refuse Room RFD2 serves the on-site 25 child creche. It is situated adjacent to the creche providing safe and efficient access. (Figure 7)









ANCILLARY - GYM

Refuse Room RFD2 serves the on-site 25 child creche. It is situated adjacent to the creche providing safe and efficient access. (Figure 5)







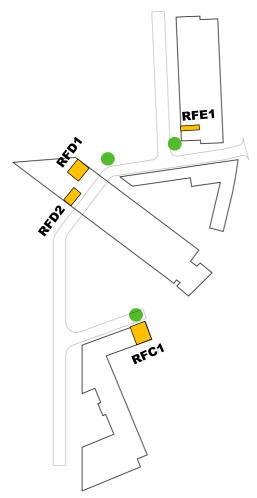


Figure 9: Ground Floor Plan highlighting all Refuse Rooms + Collection Points| NTS

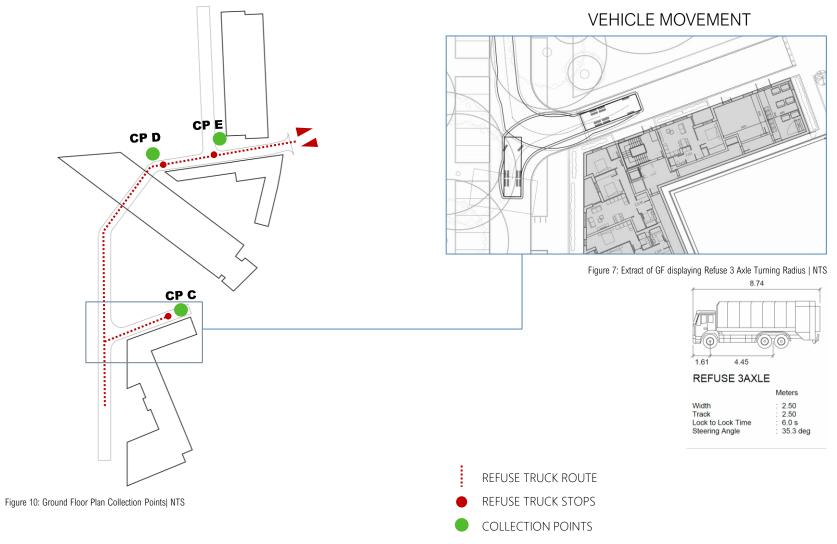
COLLECTION POINTS

Each building has been allocated a refuse collection point as shown in *Figure 9*. These designated areas are easily access by each refuse rooms. A refuse truck turning zone (see **Section 5**), will help to prevent traffic congestion during weekly and fortnightly collections.





5. WASTE COLLECTION

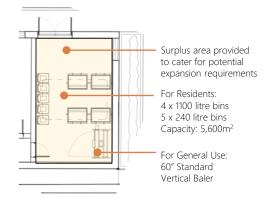


Page 20 Waste Calculation

6. REFUSE ROOMS AND INVENTORY



area: 37.4m²



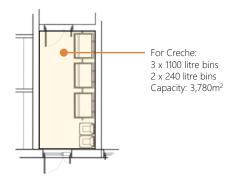
Por Ancillaries:
1 x 1100 litre bins
5 x 240 litre bins
Capacity: 2,300m²

For Residents:
6 x 1100 litre bins
5 x 240 litre bins
Capacity: 7,800m²

For General Use:
60" Standard
Vertical Baler

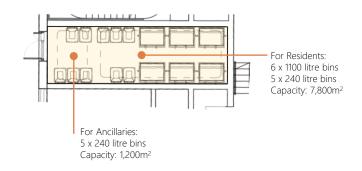
3 Refuse Room RFD2

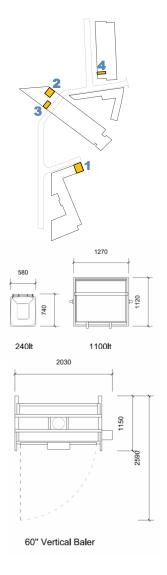
area: 24.2m²



4 Refuse Room RFE1

area: 24.6m²











www.shipseybarry.com