

2 June 2021

Department of Planning,
 Industry and Environment
 4 Parramatta Square
 12 Darcy Street, Parramatta 2050
 L8, 123 Pitt Street

Attention: Russell Hand

Dear Sir,

Re: Waterloo Metro Quarter – Southern Precinct – City of Sydney Council Waste Responses

The purpose of this letter is to address City of Sydney Councils *Response to RtS – Waterloo OSD Southern Precinct* – as per the below:

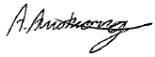
City of Sydney Response	Elephants Foot Recycling Solutions (EFRS) Response
<p>46. a) The application has been amended to reduce the size of the bin rooms and incorporate garbage chutes. A chute room is required on each habitable floor of a development that has a chute system. The chute room must be accessible, not adjacent to a habitable area and be able to accommodate at least 2 x 240L bins for waste and recycling in case of chute failure.</p>	<p>Bin rooms were redesigned during design development with the consultant team to incorporate more functional access through loading dock to bin rooms and each lobby. EFWC engineers were engaged to design the function of the chutes with appropriate equipment to handle the waste into the bins.</p> <p>Chutes were always intended for the site and were located in the same area, the bin handling systems were added after recommendation from EFWC, to be able to manage the volume produced daily.</p> <p>Building 3</p> <p>Due to spatial constraints on the floor plates backup bins have not been designed in to the habitable areas, all chutes are installed behind closed doors creating an air lock and separation from foyer and chute intake doors. An alternative system incorporating a larger chute diameter (reducing the risk of blockage). The system also has an automated blockage alarm reporting to the management office to alert blockage, this system is designed to send an alert with in 5 consecutive failed drops. Thus, allowing building management to release the blockage within 15 minutes.</p> <p>This solution is appropriate given Building 3 is managed full time by staff. The solution has been installed and operating successfully on other projects in City of Sydney</p> <p>See drawing below.</p> <p>Building 4</p> <p>Building meets the City of Sydney’s requirements. The chutes are in an airlock adjacent to the lift lobby and 2 x 240L bins for waste and recycling located in room in close proximity.</p>
<p>b) The City is the waste contractor for Building 4. The City does not support more than weekly collection, and as such</p>	<p>2 x weekly collections for residential waste bins and weekly collections for residential recycling bins is consistent with</p>

<p>sufficient bins and storage areas are to be provided.</p> <p>Note: The City recommends that a minimum 50mm be provided between each bin to allow for access/manoeuvrability between bins and provisions for disability access should be considered (i.e. 1500mm isle width between bin rows and avoid bin stacking). Doorway widths into and out of WSA should be designed with appropriate space to accommodate the movement of the largest bin proposed for development. The Waste Management Plan should identify the path of access for residents, retail staff, cleaners and collection vehicles demonstrating the functionality of the bin stores and loading dock.</p>	<p>previous Waste Management Plans compiled by EFRS in the City of Sydney Council jurisdiction.</p> <p>Building 4 is part of the larger WMQ precinct. The precinct is a busy mixed-use development with over 220 units. It is considered appropriate given the development size to collect waste twice weekly, twice weekly collection has been recommended to reduce the impact of odour with in the building, City of Sydney has previously approved twice weekly collection in project with unit volumes over 100.</p> <p>EFWC engineers and design team were engaged to ensure the functionality of all waste room is efficient, eliminating access to unauthorised personnel, while access to shared loading dock to be restricted to staff only. Caretaker to coordinate access to bulky waste as required by residents.</p>
<p>c) 5x weekly collections are proposed for Building 3, resulting in excessive truck movements. This is inconsistent with Sustainable Sydney 2030 and the TOD model which seek to reduce vehicle movements. Sufficient bin storage should be provided to allow for no more than 3x weekly collection.</p>	<p>Building 3 waste streams are managed by commercial contractors. The businesses typically work on five collections per week as normal course of business to keep loading dock and bin room in clean condition. The current design is considered appropriate.</p> <p>The Traffic Consultant has confirmed that 5 x weekly collections will not affect vehicle movement in the loading area.</p>
<p>d) Food waste generation cannot be merged with general waste. Separate space must be allocated for food waste recycling. Food waste must be stored in bins 240L or smaller</p>	<p>As per the previous letter prepared by EFRS for City of Sydney Council on the 15th of February 2021, food waste separation for the residential component has been considered. A plan has been put in place to separate food waste from general waste if Council's food waste trial progresses to a Council service during operation.</p> <p>The development is capable of accommodating food waste generation through recognition that the food waste is currently captured within the normal waste stream. If this COS service is confirmed, 1100l bin can be converted to 4 x 240l bins for food waste.</p> <p>This will require all occupants to store their food waste in eco friendly bags then transport them down via the lift into the waste room allocated in basement where the 240L bins are located. These 240L bins will be caged off from all other bins and equipment.</p>
<p>e) Details the ongoing management, storage and collection of waste, including responsibility for cleaning, transfer of bins between storage areas and collection points, implementation and maintenance of signage, and security of storage areas.</p>	<p>These details have already been covered in the Waste Management Report, as per the below:</p> <ul style="list-style-type: none"> • 11. Stakeholder Roles and Responsibilities. • 13.5 Signage and Education
<p>f) Waste management plans for demolition and construction including material storage areas for reusable materials and recyclables during demolition and construction; vehicle access to material storage areas; estimation of quantities and types of materials to be reused, recycled or left over for removal from the site are required. A template is available at Appendix A and B of</p>	<p>A separate Construction and Demolition WMP will be prepared by the applicant and provided prior to the relevant Construction Certificate. This is consistent with other OSD proposals (such as Pitt Street and Victoria Cross) and the applicant accepts a condition to this effect.</p>

the City of Sydney *Guidelines for Waste Management in New Developments 2018.*

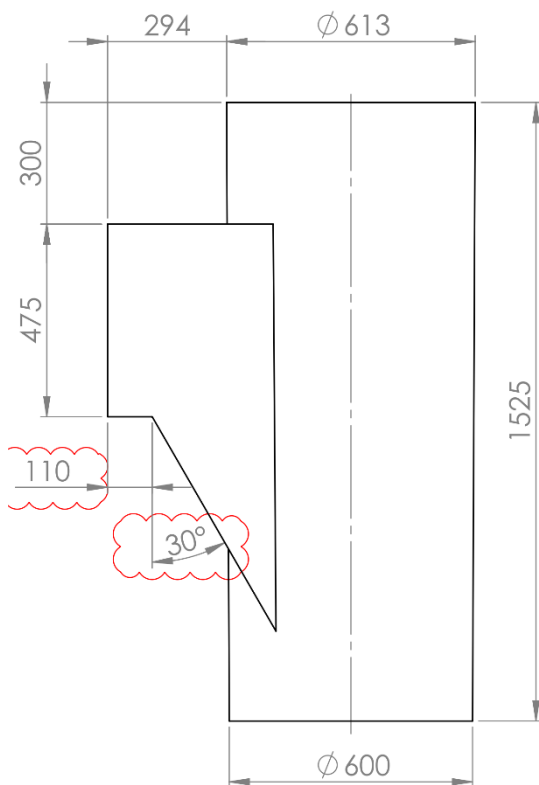
If you require any further information or clarification, please do not hesitate to contact me.

Kind Regards,



Ashleigh Armstrong

Consultancy Services Manager



Enhanced design reduce the impact area from 45 degrees to 30degrees

Increase chute diameter to 650mm

Both these elements will reduce blockage possibility, with an electric warning systems also installed any blockage will trigger an alarm to the building management team with in 15min.