

REFUSE AND RECYCLING PLAN

The project entails the construction of a five story mixed use residential/commercial building containing twenty (20) residential units along the upper floors, and 1,700 sf of commercial/retail space on the first floor. The residential mix consists of sixteen (16) two-bedroom units and four (4) one-bedroom units. The commercial/retail component consists of a maximum of two stores. The site is approximately 0.42 acres (18,184 sf). The proposed refuse and recycling area for the development shall be located at north side of the parking lot. The details of the area are outlined below..

Projected Waste Generation

The projected waste generated from the site is as calculated below. US EPA national estimate is that each person creates about 4.6 pounds of solid waste each day. Furthermore, for the retail component of the project , a waste generation rate of 13.81 pounds per employee per week is used based upon the business type (retail trade-general merchandise store –SIC Code 53). These rates were used as the basis for developing waste profile for the proposed project. It is also estimated that 32 percent of this waste generated is comprised of recyclable materials.

ESTIMATED TYPE OF WASTE BY WEIGHT/VOLUME

Residential Component

Apt. Size	No.Person /Apt.	Waste/Person /Day	No. Apts.	Total/Day
2 BR	2	4.6 pounds	16	147 pounds
1 BR	1	4.6 "	4	<u>18 pounds</u>
				165 pounds

Retail/Commercial Component

Estimated at an average 3 employees per store:

3 employees/store x 13.81 pounds/week/empl. = 41.43 pounds/store/week

For 2 stores Total Estimate = 83 pounds/week

Total Residential and Retail/Commercial Waste/week = 1,238 pounds

Estimated Recyclables @32% = 396 pounds

Estimated Refuse @ 68@ = 842 pounds

Based on the above the weekly solid waste generation rates are shown below. Weight are converted to volume using a rate of 150 pounds/ cu. yd.

Residential Refuse 842 pounds/week or 5.6 cy/week

Residential Recyclables 396 pounds/week = 2.6 cy/week

MEASURE TO REDUCE WASTE - UTILIZATION OF CITY'S RECYCLING PROGRAM

To reduce the amount of waste deposited into waste stream, the development will utilize the current City/PMUA Recycling Program. Materials such as used bottles, cans, newspapers, plastics, etc. shall be separated from normal refuse, stored onsite and collected periodically by the City/PMUA. Normal refuse (non -recyclable)solid waste shall also be stored onsite and collected by the City/PMUA. The refuse collection schedule is twice per week; the recyclable collection frequency is one per week,

Based on the generated volumes of refuse and recyclables and the collection frequencies of both, the estimated storage requirements are as follows:

Refuse 5.6 cu. yd. ----- Utilize one(1) 4 cu. yd. dumpster ..(collection 2 times/week)

Recyclables: 2.6 cu. yd. ---- Utilize one (1) 4 cu. yd. dumpster (collection once/week)

The dimensions of the proposed Refuse/Recyclable Storage area are shown on the drawings. Separate containers for refuse and recyclables are proposed. The features of the proposed area are as follows:

METHODS TO BE USED TO SEPARATE RECYCLABLE MATERIAL FROM THE WASTE STREAM AND TEMPORARILY STORE THEM IN AN AREA FOR COLLECTION

A refuse room shall be provided at the first floor level. A refuse chute from the upper floors shall terminate at a collection point in this room. The accumulated refuse shall be transferred to the exterior dumpster location by building maintenance personnel as required, on a daily basis.

The refuse/recycling enclosure facility is to be designed to allow convenient access by tenants and the waste hauler. All-weather signage shall be posted inside the enclosure that provides information on what is accepted for recycling.

Containers and enclosures shall be located so as to allow ease of access for collection trucks. No parking or other obstructions shall be permitted in the access area for enclosures

To prevent holes in the asphalt from developing as a result of bin impact, each enclosure shall be built on a concrete slab with a thickness of eight inches minimum. Additionally, a minimum six foot wide, eight inch thick concrete apron shall be constructed in front of the enclosure. The concrete apron should be extended in front of the enclosure to pass the point of pick-up to minimize the damage to the surrounding asphalt paving

Each enclosure shall have a decorative solid heavy gauge metal gates incorporating cam bolts to secure the gates when in the open and closed positions.

Gates shall swing outward.

Walls of the enclosure shall be at least six feet in height.

Containers and enclosures shall be placed away from public view insofar as is practical. Refuse and recycling receptacles, other enclosures, and loading areas shall be screened with shrubs where feasible, with a gate providing for access.

Containers and enclosures shall be situated so that they do not cause excessive nuisance to occupants of nearby buildings.

The perimeter of the enclosure shall be planted where practical with landscaping materials

The above refuge and recycling plan has been discussed and reviewed with the PMUA and has been found to be acceptable by that agency.