

Attachment D.1 – Infrastructure

D.1.a – Site Security

The site is some 0.41 hectares in extent and faces onto Beech Road in the Western Industrial Estate. The site consists of the land and buildings at 430 Beech Road (STI's existing site) and 420 Beech Road (the adjoining property). The site will be fenced to a similar standard as the existing site. This consists of palisade fencing to a height of typically 2.4 metres around the perimeter of the site. The fence to the north west of the existing site boundary is retained except for a section that will be removed at the rear of the site to allow access between the two buildings.

A full specification electronic alarm system, similar to that on the existing building and linked to a central control for continuous monitoring and provision for response when necessary will be operated in the new building. The site will be manned on a shift system 24 hours a day up to 7 days per week ensuring continual presence of authorised personnel during operational periods. An outside security firm monitors the site from 6pm to 8am daily.

D.1.b – Designs for Site Roads

Access to the site is from Beech Road. There are no other access roads and there are no haulage roads or service roads on the site.

D.1.c – Designs for Hardstanding Areas

The areas surrounding the buildings are covered in tarmac hardstanding. These areas are used for staff and visitor parking, as well as delivery/collection vehicle movements. The floors within the buildings are constructed as concrete hardstanding to a similar standard as the existing site.

D.1.d – Plant

A weighbridge is not proposed for the site. A weighing device will be incorporated within the new building. The weighing device will be of a similar type and design as the weighing device within the existing building.

The proposed weighing device will be located on four load cells and be mounted flush with the floor. The surface area of the device will be 2.25 square metres and made of mild steel chequered plate. The device will be connected to an electronic interface with digital readout and calibrated on a quarterly basis by an independent calibration service provider.

A description of the proposed treatment and recovery plants is provided in Attachment D.2

D.1.e – Wheel-wash

A wheel wash facility is not proposed for the site.

D.1.f – Laboratory Facilities

All laboratory test work is undertaken in the quality control room within the building at 430 Beech Road. The laboratory is equipped with an incubation oven to allow the site to process the spore test strips used to verify the efficacy of the treatment process. The location of the laboratory is shown in figure D.1 F1.

D.1.g – Fuel Storage Areas

There is no large-scale storage of fuels or lubricants on the site. A number of small drums (< 200 litres) of fuels are kept on the extended site. These will be stored in mobile bunds constructed from waste carts. The bunds have the capacity to hold 110% of the capacity of the fuel held.

D.1.h – Waste Quarantine Areas

Two waste quarantine areas are incorporated into the layout of the site, one located in each building. The quarantine area in the building at 430 Beech Road is designed to hold waste identified as unsuitable for the waste treatment process and which has arrived at the site by error. Waste is held here for the shortest possible time prior to movement into the proposed transfer station in the adjacent building at 420 Beech Road.

The quarantine area in the building at 420 Beech Road holds waste received by the site in error and for which the site does not have a licence to receive, store, or process.

The quarantine areas are of similar design and consist of a fenced lockable compound approximately 4m x 3 m. The floor supervisors and plant supervisor controls access to the waste quarantine area. The location of the quarantine areas on the site is detailed in figure D.1 F1.

D.1.i – Waste Inspection Areas

All wastes arriving at the site is checked against the accompanying waste transfer documentation and details contained within the electronically collected consignment system operated by STI. Because of health and safety requirements, it is not practicable to open and sample individual primary containers of waste.

D.1.j – Traffic Control

Restrictions on the number of vehicle movements on and off the site are controlled by the planning permissions currently in place. No additional controls are proposed.

D.1.k – Sewerage and Surface Waste Drainage

The site is serviced with surface and foul water drains connected to the drainage system operated by South Dublin County Council. A plan of the site showing the location of surface water and foul drains is attached as figure D.1 F2.

D.1.k – All Other Services

Any upgrading of and/or alterations to existing electrical installations necessary to satisfy current safety standards shall be carried out in accordance with the 'National Rules for Electrical Installations' published by the Electro-Technical Council of Ireland.

Any upgrading to the existing gas installations necessary to satisfy safety standards and/or any alterations necessary to the installation shall be carried out in accordance with IS266:1989 and ICP 4: 1989 and the requirements of Bord Gais.

A plan of the site showing the location of electricity cables and gas pipes are attached as figure D.1 F2

D.1.m – Plant sheds, garages and equipment compounds

There are no plant sheds, garages, or equipment compounds on the site.

D.1.n – Site Accommodation

Office accommodation and staff amenities suitable for the size of the site and the number of staff are provided. The layout of the site is shown in figure D.1 F1.

D.1.o – Fire Control System, including water supply

The fire system proposed for the new building is similar to that already in place in the existing facility. The following description therefore applies to both.

The first level of fire protection is afforded by the provision of strategically located fire hydrants at the front and rear of the buildings. A combination of foam and carbon dioxide fire extinguishers are located at appropriate points throughout the building to assist in the safe egress of occupants from the building. Smoke detectors and heat sensors provide protection as appropriate. Finally, the

buildings are protected by a Fire Alarm system communicating automatically with the Emergency Services in the event of an Emergency.

D.1.p – Civic Amenity Facilities

Because of the specialist nature of STI's business the site will not operate any civic amenity facilities.

D.1.q – Any Other Waste Recovery Infrastructure

The above sections fully describe the infrastructure in place or proposed for the site. There is no other waste recovery infrastructure on the site.

D.1.r – Composting Infrastructure

STI will not be undertaking any composting activities on the site

D.1.s – Construction and Demolition Waste Infrastructure

STI will not bring onto the site any constructions or demolition wastes. All wastes associated with any construction or demolition activities undertaken will be contained in covered skips (or other suitable containers) and disposed of off-site in accordance with the relevant legislation

D.1.t – Incineration Infrastructure

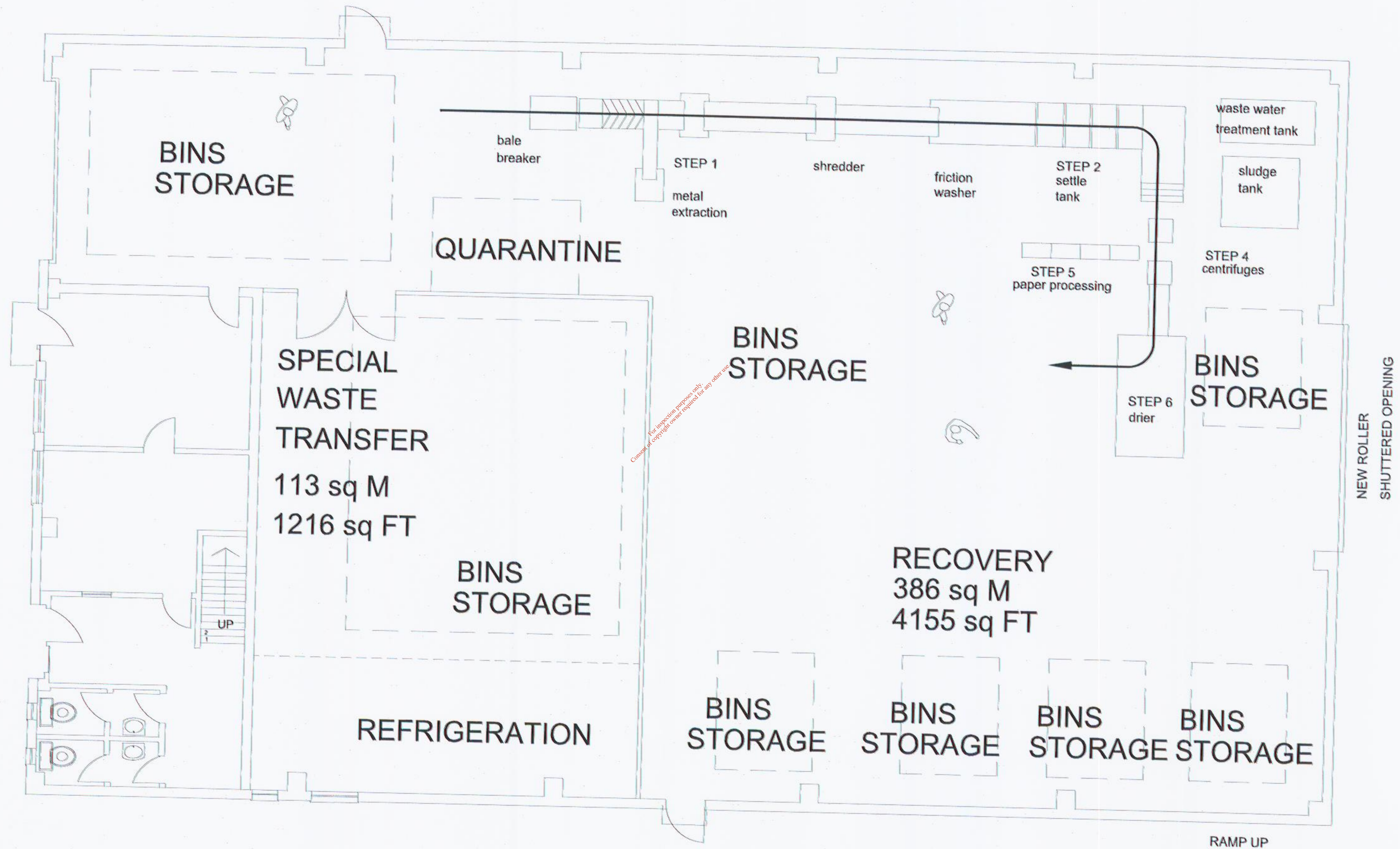
STI will not be undertaking any incineration activities on the site.

D.1.u – Any Other Infrastructure

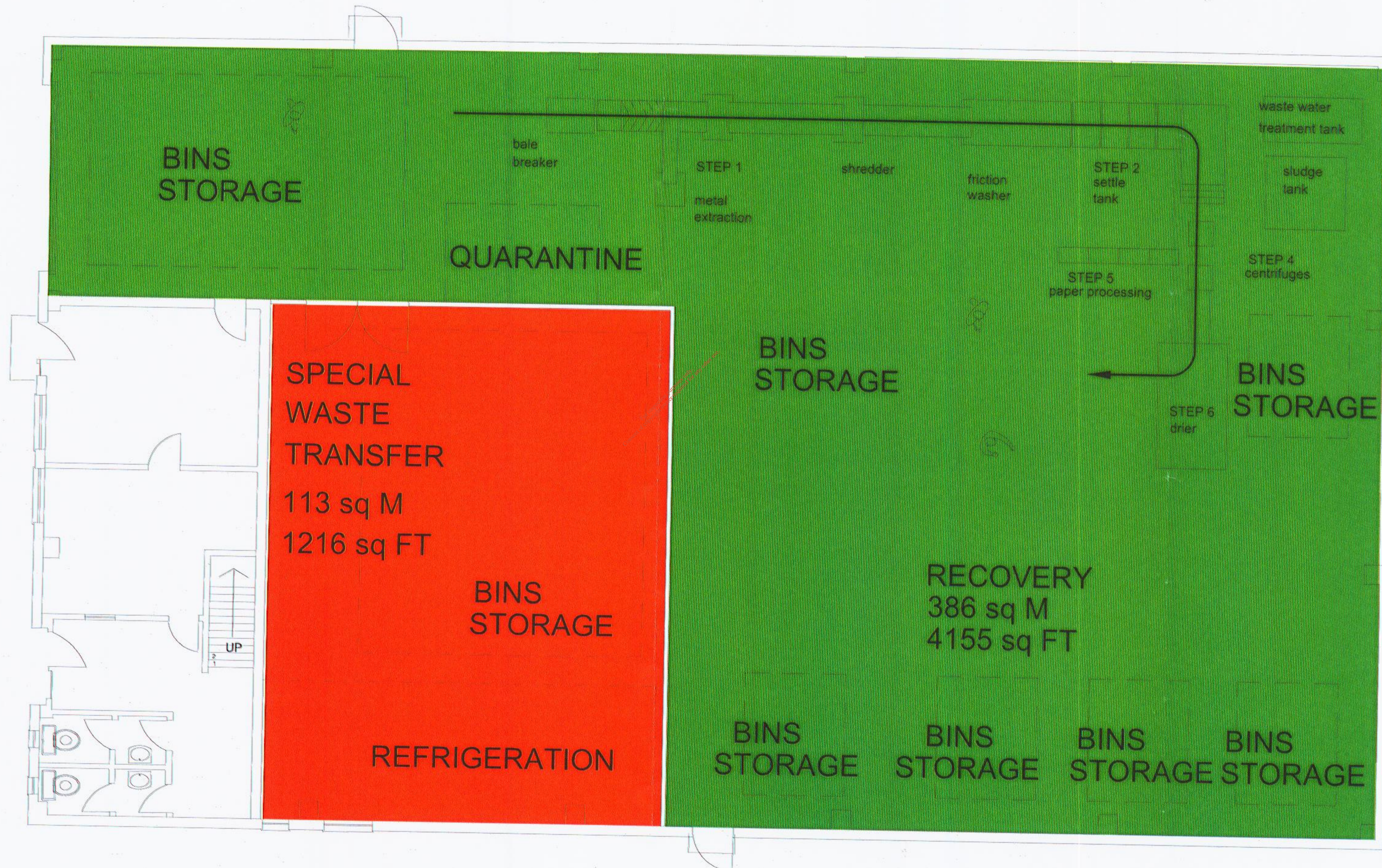
The above sections describe the infrastructure in place or proposed for the site. There is no other infrastructure on the site.

Figure D.1 F1 – Site Layout

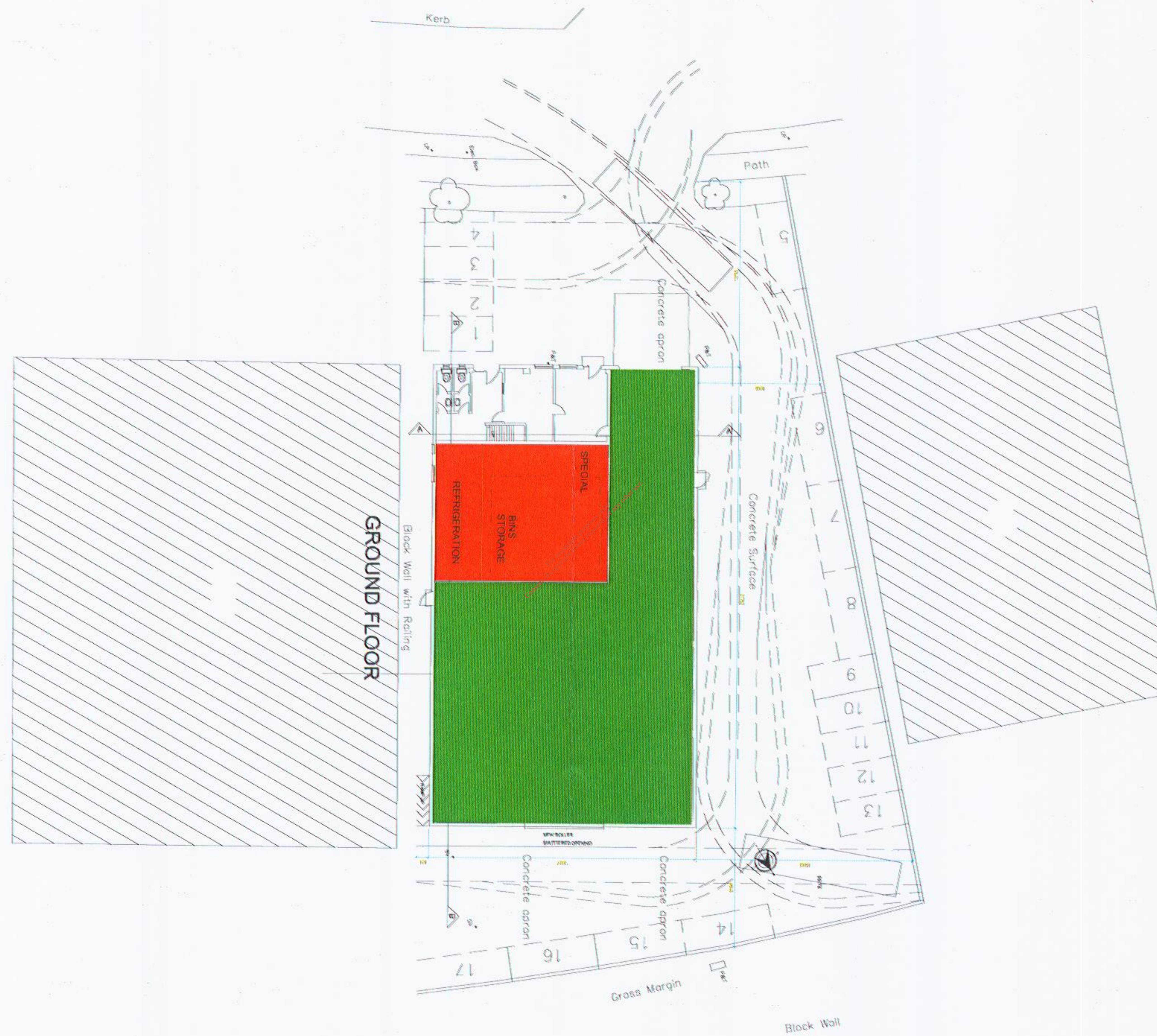
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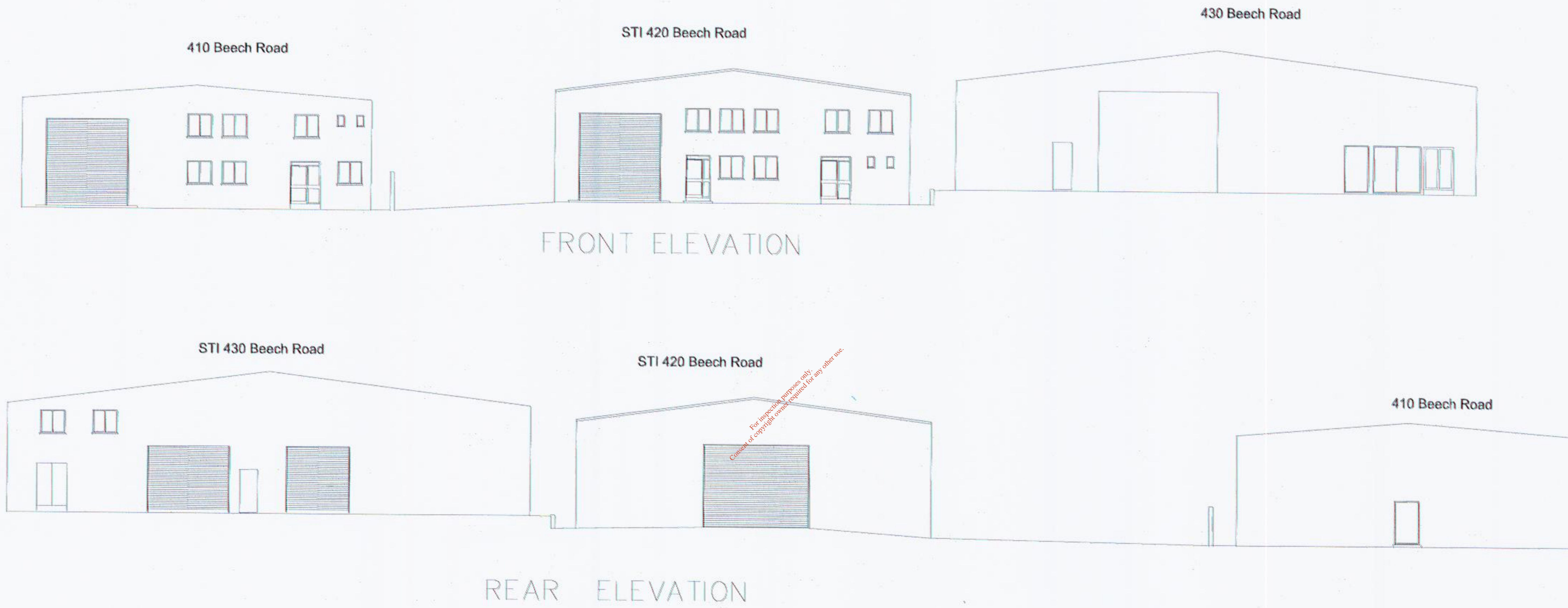
PROPOSED GROUND FLOOR LAYOUT



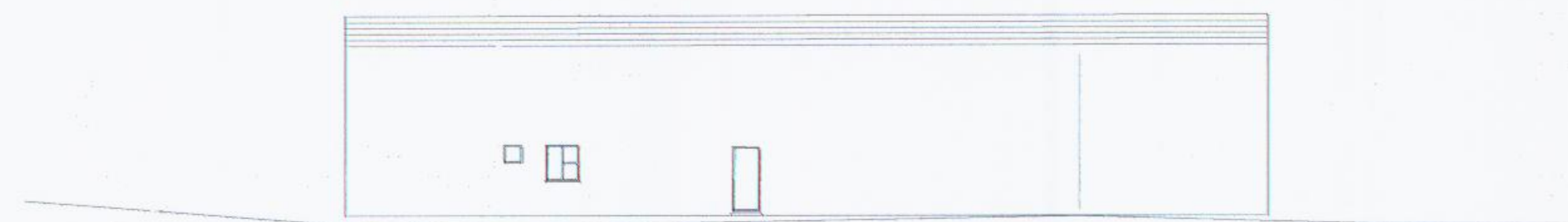
PROPOSED GROUND FLOOR LAYOUT



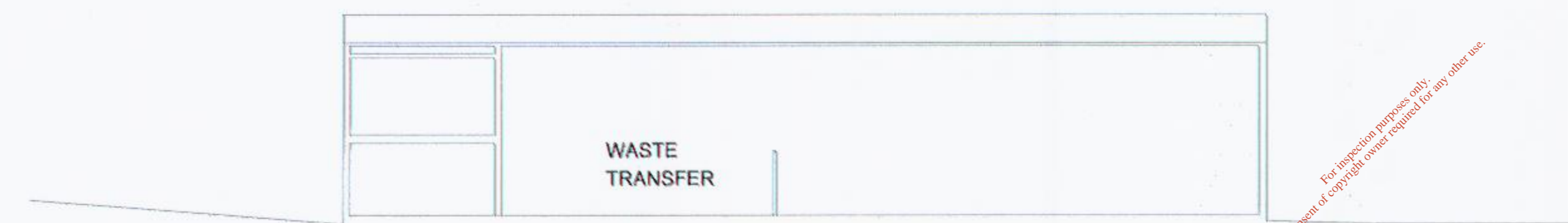
PROPOSED SITE LAYOUT



FRONT AND REAR ELEVATIONS - INDICATING ADJACENT PROPERTIES



EAST ELEVATION



SECTION B - B



WEST ELEVATION



SECTION A-A

SIDE ELEVATIONS AND SECTIONS

Figure D.1 F2 – Site Services

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PROJECT: PROPOSED NEW PREMISES.

TITLE: PROPOSED DRAINAGE LAYOUT.

