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August

The Director General

#### Westfield Parramatta,

#### **Waste Management Facilities**

#### Stage 1

To service the proposed new DDS at Retail Level 6, the existing tenant on Campbell St (Level 4) will be replaced by a new loading dock and reserve area. This dock will accommodate a 19m truck allowing service to the DDS and a compactor for waste. Adequacy of truck circulation has reviewed by CBHK to insure the workability of the loading. Servicing to Level 6 will be achieved through the utilisation of 2 Goods Lifts within the reserve area.

The existing Aird St loading dock at level 2 will undergo a reconfiguration to accommodate a new loading dock for the proposed Supermarket on Retail Level 6. This will be achieved by the relocation of storage rooms and reconfiguration of the loading dock layout including the provision of a truck turning area ensuring truck movements are contained with the loading dock facility. The proposed reserved adjacent to the loading dock will accommodate storage and 2 goods lifts servicing Level 6.

The proposed Mini-Majors located on Retail Level 5 will utilise the existing loading dock being vacated by the relocated Supermarket. This area can also accommodate compactors and service the Mini-Majors and Specialty tenancies at Level 5 & 6.

#### Stage 2

Waste for the proposed Stage 2 will be serviced through a new loading facility located within the Aird St East locale (Level 3). The facility will be accommodated through the relocation of storage and reconfiguration of the existing commercial tower facilities. The tower will be serviced by lifts serving the future sky lobby at Level 4 and the tower above.



#### **Westfield Parramatta Waste Management Plan**

This waste management plan is prepared under section 5.5 of the current Parramatta City Centre DCP.

There are 4 key areas the plan considers:

- 1. Best practice recycling and reuse of construction and demolition materials
- 2. Use of sustainable building materials that can be recycled at the end of their life
- 3. Handling methods and location of waste storage areas
- 4. Procedures for on-going sustainable management of organic and putrescible waste and for recycling waste (glass, paper etc) including estimated volumes, bin capacity, on-site storage requirements and collection of waste from the site.

#### 1. Best practice recycling and reuse of construction and demolition materials

This area is covered in the Cundall Ecologically Sustainable Design Report dated 1 Aug 2012 under Section 2.3 Building Materials Resource Minimisation, paragraph 2.3.1 Sustainable Building Products (page 12)

#### 2. Use of sustainable building materials that can be recycled at the end of their life

#### **Construction Practices**

- A comprehensive environmental management plan will be implemented to minimise the impact on the immediate environment
- 80% of construction waste will be either reused or recycled
- Construction energy and water consumption will be monitored to minimise wastage.

#### Materials Selection

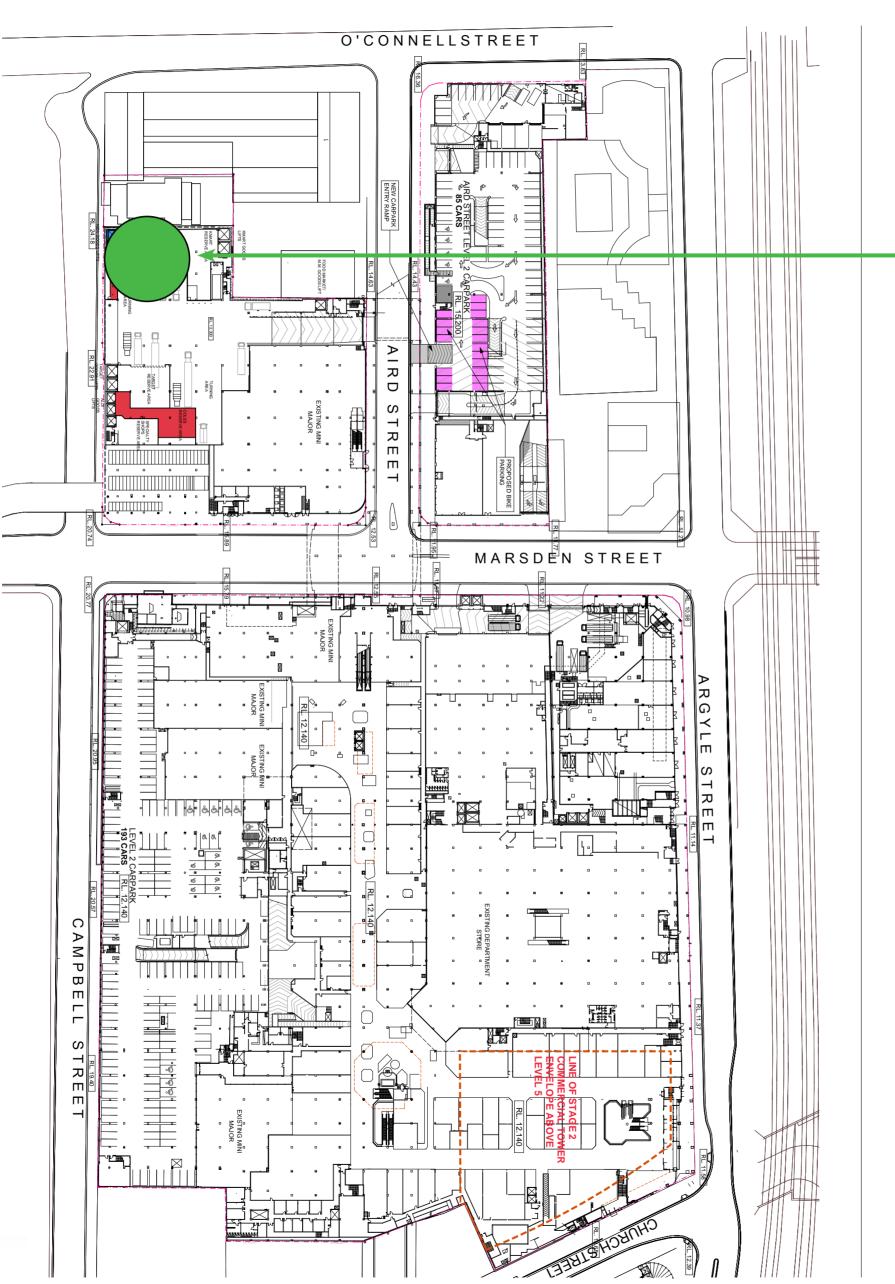
- Materials installed in the building during construction will be low in volatile organic compounds and low in formaldehyde emissions to improve the indoor air quality of the finished building
- Preference to recycled building materials will be used in the construction process and where recycled building materials are not available, materials low in embodied energy will be selected
- Steel will be selected to have a high recycled content
- Portland cement will be replaced with recycled content and aggregate will be made from waste product
- PVC use will be reduced by 20% and where it is used it will be sourced from companies who
  follow the "Best Practice Guidelines for PVC in the Built Environment".

3. Handling methods and location of waste storage areas & 4. Procedures for on-going sustainable management of organic and putrescible waste and for recycling waste (glass, paper etc) including estimated volumes, bin capacity, on-site storage requirements and collection of waste from the site.

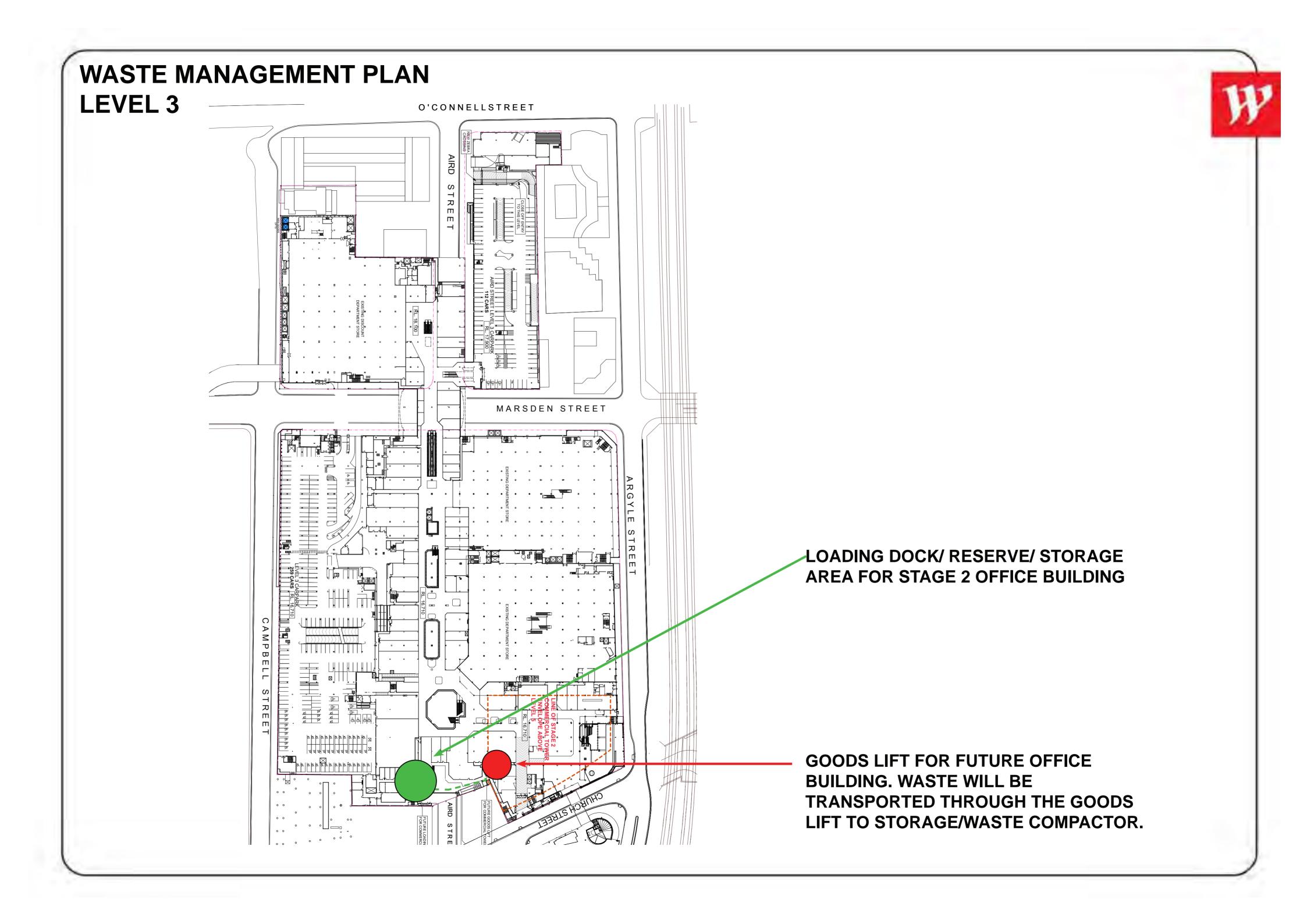
Please see attached report "Westfield Parramatta Waste Management Plan July 2012" and annotated plans illustrating loading dock locations and access paths.

# WASTE MANAGEMENT PLAN LEVEL 2

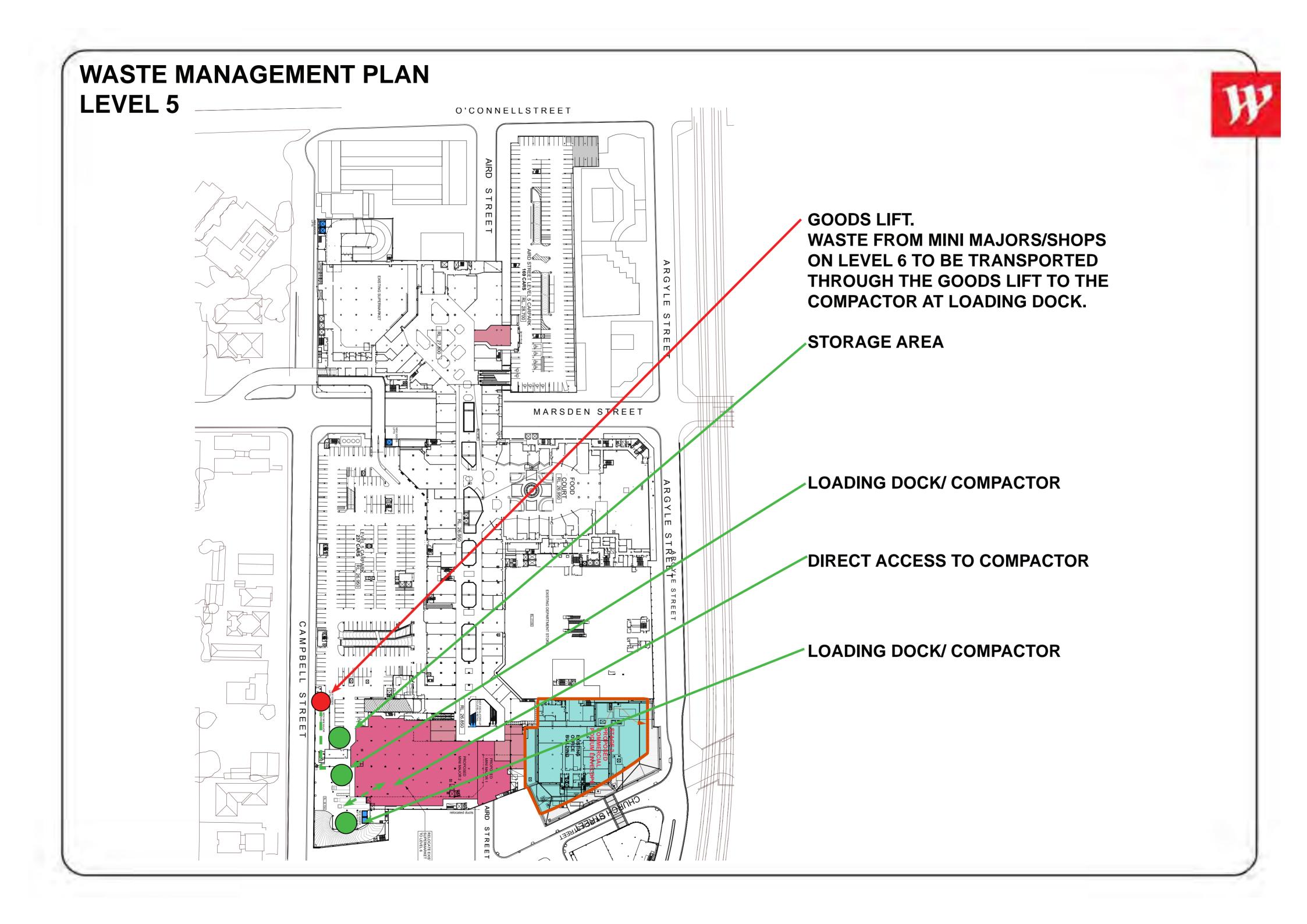


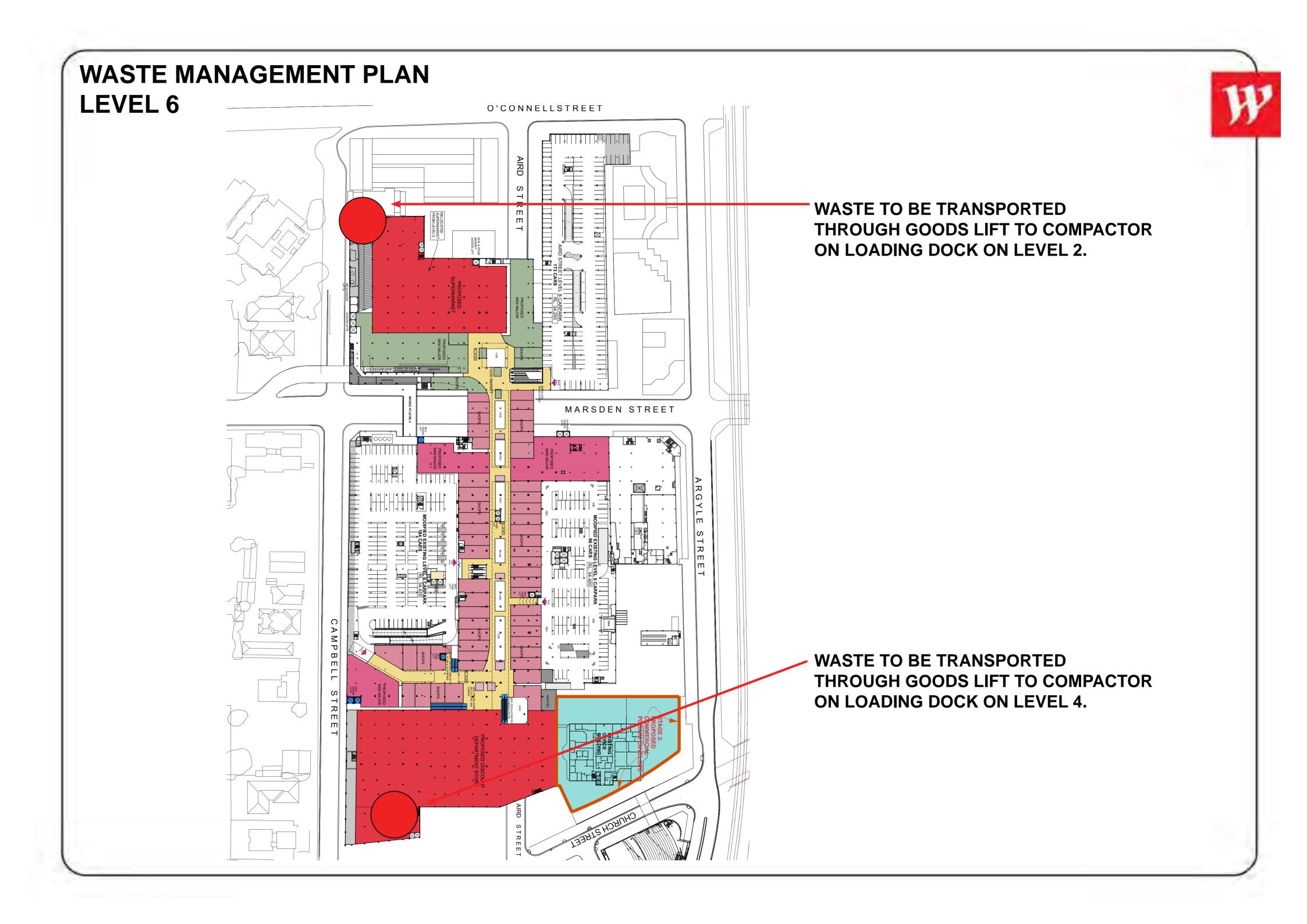


STORAGE AREA FOR NEW RELOCATED SUPERMARKET ON LEVEL 6. WASTE WILL BE TRANSPORTED THROUGH THE GOODS LIFT TO THE COMPACTOR AT THE LOADING DOCK.



# **WASTE MANAGEMENT PLAN** LEVEL 4 O'CONNELLSTREET MARSDEN STREET RESERVE AREA FOR D.D.S ON LEVEL 6. WASTE WILL BE TRANSPORTED BY GOODS LIFTS TO THE COMPACTORS AT LOADING DOCK AREA. **GOODS LIFT**







# Westfield Parramatta Waste Management Plan July 2012





# W

# **Waste Types**

**General waste** Compactor System

Cardboard Bailer System &

**Compactor System** 

LDPE (Plastics) Open Bail System

Organics Open Bin 240 Litre System

Commingled Open Bin 660 Litre System



#### **General Waste Compactors**

The compactor system situated in Docks B4,E,F & I are sized at 10.00 & 23.00 cubic metres.

Most general waste is collected through the waste bins situated throughout the centre mall areas and retailer waste from over 500 outlets in the centre.

General compactor waste is collected on Monday & Thursday weekly or Wednesday fortnightly, during the early to mid morning normal day trading period depending on the dock.



# **General Waste Compactors**



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#### **Cardboard**



The cardboard system has two types of equipment, a bailing unit and compacting units.

The bailing unit is a HD 200 system which is an auto compact unit, this is situated on Level 5 BOH Fruit Shop area and bails are stored in Dock J new cage area.

A Cardboard Compactor has been introduced into dock F which is 23 cubic metre in size, Dock's B4 & E are being nominated to have similar sized compactor's installed before the end of September 2012.

Most cardboard is collected through general retailer stock delivered in boxes and general packaging.

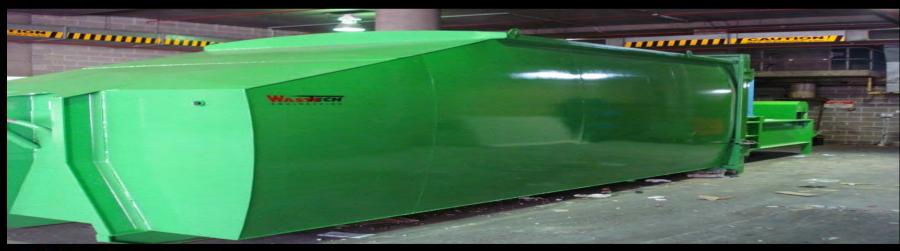
Cardboard is collected on Monday, Wednesday & Fridays (bailers) and Compactor (weekly Thursday) during the normal day trading period.

# Bailer HD 200





# **General Compactor**



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Bails that are designed to hold plastic waste have been situated in Docks B1,B2,B4,C,D,F,I & J.

This plastic is then transferred to a central holding cage in Dock B2 for collection.

Plastic that is collected is from the fashion retail areas of level 3 & 4 which is used in the covering of the clothing supplied to these stores, it is also collected from the covering around drinks cartons supplied to our food retailers and vending machines.

LDPE collected every Wednesday by the same contractor that services the cardboard.



The organics collection system is made up from a number of open lid 240 litre waste bins that are situated in Docks B4, I & J.

Organic waste is collected through the fresh food & fish retailers on site.

Organics are collected on Monday, Tuesday, Wednesday, Thursday, Friday, Saturday & Sunday by a individual collection Company.





The commingled collection system is made up of 660 litre open bin's that are situated in Dock's B4 & F

Commingled products are collected through the Westfield Public Waste Recycling scheme that is in place at Level 1 & 5 food court's.

General site retail café and barista outlet's using plastic milk containers.

General site retail outlet's using steel oil drums for cooking.

Collection of commingled products are collected on Monday, Tuesday & Friday.







Changes - Outcome 4 Operational Docks by end 2012

B4, E, F, & I

General strategy

**General Waste:** 

Remove the open bin system from Dock C & J and relocate the waste from those docks to general waste compactors in Dock B4,E & F – this will then provide an accurate indication of tonnage.

#### Cardboard:

Remove bailers from Dock C, E, I & J directing the cardboard from those docks to the new cardboard compactor's in Dock's B4 & E assisting the existing compactor in Dock F– providing an accurate indication of tonnage and reducing potential theft.

Caged area's will be installed in Dock J to stock the Level 5 fruit retailer cardboard to prevent loss from rogue collection companies and also in Dock I to assist with collection from Level 1 Zone G retailers for relocation to Dock E.





Changes - Outcome 4 Operational Docks by end 2012

B4, E, F, & I

General strategy

Plastic:

Centralise plastic collection to previous cardboard collection point at Dock B2 caged area to include signage.

Organics:

Organic collection—Provide colour code dock area location for placement of 240 litre bins to Docks B4, I & J with install of caged area to include signage.

Co-mingled:

Comingled collection – Provide colour code dock area location for Dock B4 Level 1 & Dock F level 2 for both Level 1 & 5 food court's with installation of caged area with signage to be included.





#### Changes to the way Level 1 waste will be managed (B4 & I)

- Removal of bailer from Dock B4
- 23 Cubic metre compactor for cardboard to be installed in Dock B4
- Retailers & Cleaners will place cardboard from PRL into Dock B4 new compactor or Dock I new holding cage.
- Cleaners will divert all general mall bin waste from Level 1 Food Court to Dock B4.
- Cleaners will remove co-mingled recycling from Level 1 food court to 660 litre bins in Dock B4
- PRL Zone G general mall and tenant waste will be taken to Dock I or B4
- Retailer education revised pack to include mall layout plans and waste stream details.



# Parramatta Level 1



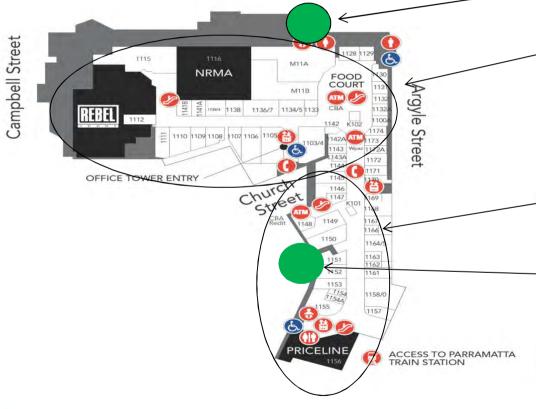


Dock B4 Campbell Street Entry

Level 1 General Mall & Food Court Area to Dock B4

Level 1 General Mall Area to Dock I

Dock I Fitzwilliam Street Entry







Changes to the way Level 2 waste has been managed (Dock F)

- 23 Cubic metre compactor for cardboard installed and now in place.
- Cleaners & Retailer's diverting cardboard from Level 2 to new compactor.
- Cleaners & Retailer's diverting all general waste from Level 2 to existing compactor.
- Collection of waste is Monday & Thursday and cardboard Thursday weekly.
- Retailer Education revised pack to include mall layout plans and waste stream details.





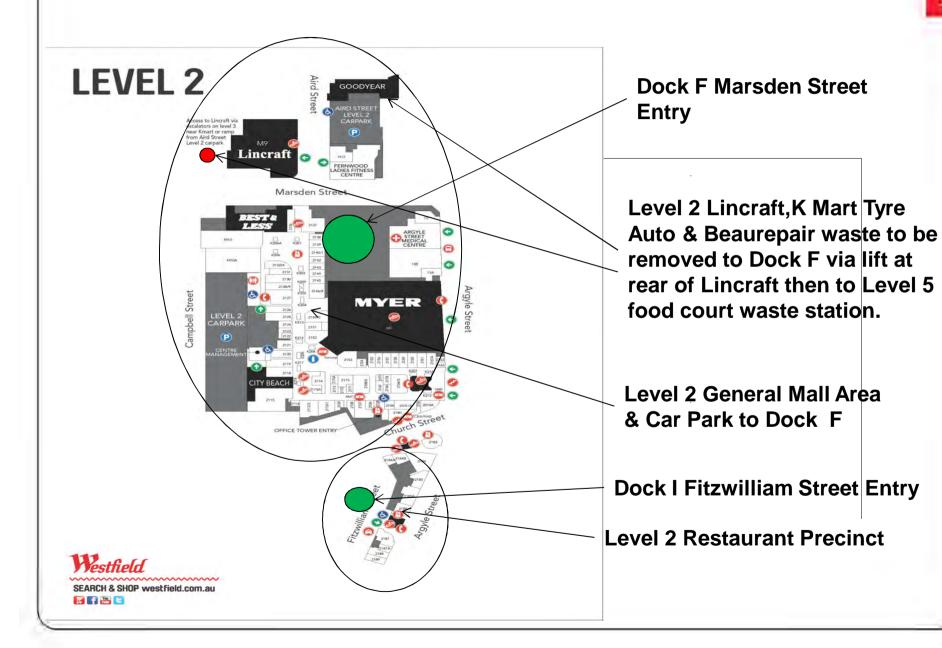
Changes to the way Level 2 Aird St retailer cardboard and waste to be managed (Dock J Closing)

- Retailers will be diverting cardboard and general waste from level 2 to Level 5 food court waste station in corridor behind Orporto's retail shop via BOH lift situated at the end of the corridor behind Lincraft retail shop.
- Cleaners will divert all general waste and cardboard from Level 5 food court recycling station's to Dock F.
- Retailer Education revised pack to include mall layout plans and waste stream details.



### Parramatta Level 2







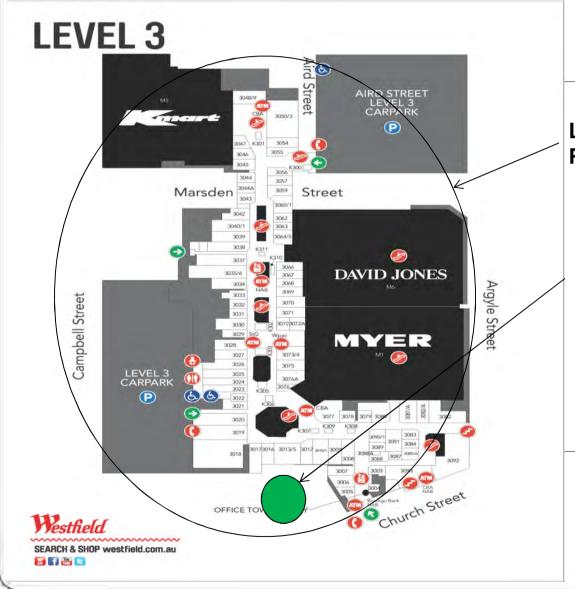
Changes to the way Level 3 waste has been managed (Dock E)

- Installation of Cardboard Compactor with existing cardboard bailer retained for bailing plastic in the dock.
- Existing General Waste Compactor to be relocated to the adjacent space beside where it is now situated.
- Retailers & Cleaners will relocate cardboard to new cardboard compactor in Dock E via access corridor behind Focus retail shop.
- Retailers & Cleaners will divert all general mall waste from level 3 to Dock E via access corridor behind Focus retail shop.
- Retailer Education revised pack to include mall layout plans and waste stream details.



# **Parramatta Level 3**





Level 3 General Mall & Car Park Area to Dock E

**Dock E Little Aird Street Entry** 



Changes to the way Level 4 waste has been managed (Dock C Closing)

- Remove cardboard bailer in Dock C with cardboard being relocated to Dock E cardboard compactor.
- Remove open bins in Dock C and have retailer 's directed to Dock E waste compactor via BOH lifts behind SDS retail shop.
- Cleaners will divert all general mall waste from Level 4 to Dock E via BOH lifts behind SDS retail shop.
- Retailers will divert cardboard to Level 3 Dock E via BOH lifts behind SDS retail shop.
- Retailer Education revised pack to include mall layout plans and waste stream details.





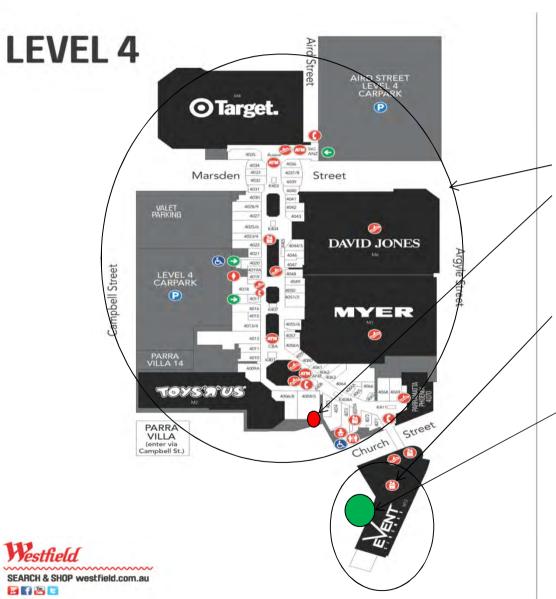
#### Level 4 Events Cinema (Dock I)

- 10 Cubic metre compactor for general waste to remain.
- Removal of existing cardboard bailer with installation of cardboard cage area to be used as a holding bay for the transfer to Dock E cardboard compactor by cleaning.



# Parramatta Level 4





Level 4 General Mall & Car Park Area to Dock E via BOH lift behind SDS retail shop.

Level 4 Event Cinema Area to Dock I

**Dock I Fitzwilliam Street Entry** 



Changes to the way Level 5 waste has been managed (Dock F)

- Installation of a 23 Cubic metre compactor for cardboard in Dock F
- Existing 23 Cubic metre compactor for general waste in Dock F
- Retailers & Cleaners will divert all cardboard and general waste from Level 5 to Level 5 food court recycling station's in BOH corridor behind Orporto's & KFC retail shop's.
- Cleaners will divert all retailer cardboard and general mall waste from Level 5 food court recycling station's to existing cardboard and waste compactor's in Dock F
- Retailer Education revised pack to include mall layout plans and waste stream details.





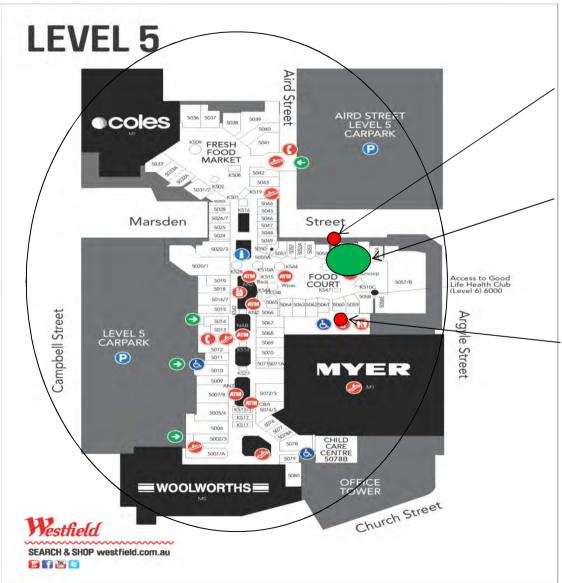
Changes to the way Level 5 waste has been managed (Dock J Closing)

- Removal of all open waste bins and cardboard bailer from Dock J
- Retailers will divert all waste and cardboard from Level 5 fresh food court to Level 5 food court recycling station's in BOH corridor behind Orporto's & KFC retail shop's.
- Cleaners will divert all general waste and cardboard from Level 5 food court recycling station's to Dock F
- Retailer Education revised pack to include mall layout plans and waste stream details.



### Parramatta Level 5





Level 5 Fresh Food Mall & Car Park Area to Dock F via Food Court BOH bins behind Oporto's retail shop

**Dock F Marsden Street Entry** 

Level 5 General Mall & Car Park Area to Dock F BOH bins behind KFC retail shop



Level 6 new retailers will result in the following changes to the dock management plan

- Re introduction of Dock D
- Access by BOS and Goods Lift
- A new retailer education process will be undertaken

#### Equipment

	Dock D
General waste packer	Yes
Cardboard bailer	Yes
Co-mingled	Yes
Plastics	Yes



### Parramatta Level 6





Level 6 specialty retailers and mini majors will be serviced by the reintroduction of Dock 5.
Access to the dock will by BOS passageway and goods lift



#### Outcome

Recycling KPI currently 33% recycled now

40% recycled proposed post development

Cardboard KPI currently 586 Tonne

650 Tonne proposed post development

General Waste KPI currently 2485 Tonne

2726 Tonne proposed post development

