WASTE MANAGEMENT PLAN

DEMOLITION, CONSTRUCTION AND USE OF PREMISES

The applicable sections of this table must be completed and submitted with your Development Application.

Completing this table will assist you in identifying the type of waste that will be generated and will advise Council of how you intend to reuse, recycle or dispose of the waste.

The information provided on the form (and on submitted plans) will be assessed against the objectives of the DCP.

OUTLINE OF PROPOSAL

Site Address: 32-36 Hope Street Penrith

Applicants name and address: Designcorp Australia Pty Ltd 16 Dunlop Street North Parramatta NSW 2151

Phone: 9630 9911 Fax: 9630 9922

Buildings and structures currently on the site: Each property contains a brick dwelling and detached garages. All structures on site are to be demolished

Brief description of proposal: <u>Proposed residential flat building comprising of six</u> storeys and two basement levels.

The details provided on this form are the intentions of managing waste relating to this project.

Signature of applicant

Ox

Date: 06/12/2017

STAGE ONE - DEMOLITION

This is the stage with the greatest potential for waste minimisation, particularly in Sydney where there are high levels of development, relatively high tipping charges and where alternative quarry materials are located on the outskirts.

Applicants should consider is whether it is possible to re-use existing buildings, or parts thereof, for the proposed use.

With careful onsite sorting and storage and by staging work programs it is possible to re-use many materials, either on-site or off-site.

Council is seeking to move from the attitude of straight demolition to a process of selected deconstruction, ie. total reuse and recycling both off-site and on-site. This could require a number of colour-coded or clearly labelled bins onsite (rather than one size fits all).

Applicants should demonstrate project management which seeks to:

- re-use of excavated material on-site and disposal of any excess to an approved site;
- green waste mulched and re-used in landscaping either on-site or off-site;
- bricks, tiles and concrete re-used on-site as appropriate, or recycled off site;
- plasterboard re-used in landscaping on-site, or returned to supplier for recycling;
- framing timber re-used on-site or recycled elsewhere:
- windows, doors and joinery recycled off-site;
- plumbing, fittings and metal elements recycled off-site;
- All asbestos, hazardous and/or intractable wastes are to be disposed of in accordance with WorkCover Authority and EPA requirements;
- Locations of on-site storage facilities for material to be reused on-site, or separated for recycling off-site; and
- Destination and transportation routes of all materials to be either recycled or disposed of off-site.

The following table should be completed by applicants proposing any demolition work. The following details should be shown on your plans.

- Location of on-site storage space for materials (for re-use) and containers for recycling and disposal.
- · Vehicle access to the site and to storage and container areas.

Demolition Stage One – To be completed for proposals involving demolition

Materials on		Destination			
Site		Reuse &	recycling	Disposal	
Type of material	Estimated volume (m3) or area (m2) or weight (t)	On-Site Specify how materials will be reused or recycled on site	Off-site Specify the contractor and recycling outlet	Specify the contractor and landfill site	
EXAMPLE	e.g 2m3	e.g. clean and reuse for footings and broken bricks behind retaining walls	e.g. sent by XYZ Demolishes to ABC Recycling Company	e.g. nil to landfill	
Excavation material	2m3	Re-use as fill where possible	Has-a-bin Auburn Waste Management	Horsley Park Waste Management centre	
Green waste	4m3		Has-a-bin Auburn Waste Management		
Bricks	0.50m3		Concrete Recyclers Group Camellia		
Tiles	2m3		Concrete Recyclers Group Camellia		
Concrete	3m3		Concrete Recyclers Group Camellia		
Timber – please specify	6m3		Has-a-bin Auburn Waste Management		
Plasterboard	6m3		Has-a-bin Auburn Waste Management	WSN Enviro Solutions Wallgrove Road, Eastern Crk	
Metals	2m3		Sims Metal 43 Ashford Ave Milperra		
Asbestos	6m3			Horsley Park Waste Management centre	
Other waste e.g. ceramic tiles, paints, plastics, tubing, cardboard	6m3 (general)			Has-a-bin Auburn Waste Management	

Demolition Stage One - continued

How will waste be separated and/or stored onsite for reuse and recycling? How will site operations be managed to ensure minimal waste creation and maximum reuse and recycling?

e.g. Staff training, selected deconstruction v. straight demolition, waste management requirements stipulated in contracts with sub-contractors, ongoing checks by site supervisors, separate area set aside for sorted wastes, clear signage for waste areas etc.

The demolition/excavation waste contractors engaged will be responsible for the
sorting and disposal of the waste according to the rules and regulations

Note: Details of the site area to be used for on-site separation, treatment and storage (including weather protection) should be provided on plan drawings accompanying your application.

STAGE TWO – CONSTRUCTION

Stage Two - Potential for Waste Minimisation During Construction Stage

- Consider the following measures that may also save resources and minimise waste at the construction stage:
 - Purchasing Policy i.e. Ordering the right quantities of materials and prefabrication of materials where possible;
 - Reusing formwork;
 - Minimising site disturbance, limiting unnecessary excavation;
 - Careful source separation of off-cuts to facilitate re-use, resale or efficient recycling;
 - Co-ordination/sequencing of various trades.

How to Estimate Quantities of Waste

 There are many simple techniques to estimate volumes of construction and demolition waste. The information below can be used as a guide by builders, developers & homeowners when completing a waste management plan:

To estimate Your Waste:

ii. Quantify materials for the project

iii. Use margin normally allowed in ordering

iv. Copy these amount of waste into your waste management plan

 When estimating waste the following percentages are building "rule of thumb" and relate to <u>renovations</u> and <u>smallhomebuilding:</u>

Material	Waste as a Percent of the Total		
	Material Ordered		
Timber	5-7%		
Plasterboard	5-20%		
Concrete	3-5%		
Bricks	5-10%		
Tiles	2-5%		

Converting Volume into Tonnes: A Guide for Conversion

Timber = 0.5 tonnes per m2 Concrete = 2.4 tonne per m3 Bricks = 1.0 tonne per m3 Tiles = 0.75 tonne per m3 Steel = 2.4 tonne per m3

- To improve provide more reliable figures:
- · Compare your projected waste quantities with actual waste produced;
- · Conduct waste audits of current projects;
- Note waste generated and disposal methods;
- Look at past waste disposal receipts;
- Record this information to help estimate future waste management plans.
- On a waste management plan amounts of waste may be stated in m2 or m3 or tonnes (t).

Construction Stage Two – for proposals involving construction

Materials on		Destination		
Site		Reuse & recycling		Disposal
Type of material	Estimated volume (m3) or area (m2) or weight (t)	On-Site Specify how materials will be reused or recycled on site	Off-site Specify the contractor and recycling outlet	Specify the contractor and landfill site
EXAMPLE	e.g 2m3	e.g. clean and reuse for footings and broken bricks behind retaining walls	e.g. sent by XYZ Demolishes to ABC Recycling Company	e.g. nil to landfill
Excavation material	3000m3	Re-use as fill		WSN Enviro Solutions Wallgrove Road, Eastern Crk
Green waste	3m3		Has-a-bin Auburn Waste Management	
Bricks	4m3		Concrete Recyclers Group Camellia	
Tiles				
Concrete	4m3		Concrete Recyclers Group Camellia	
Timber – please specify	4m2		WSN Enviro Solutions Wallgrove Road, Eastern Crk	
Plasterboard	5m3			WSN Enviro Solutions Wallgrove Road, Eastern Crk
Metals	2m3		Sims Metal 43 Ashford Ave Milperra	
Other waste e.g. ceramic tiles, paints, plastics, tubing, cardboard	3m3			Has-a-bin Auburn Waste Management

How will waste be separated and/or stored onsite for reuse and recycling? How will site operations be managed to ensure minimal waste creation and maximum reuse and recycling?

e.g. Staff training, selected deconstruction v. straight demolition, waste management requirements stipulated in contracts with sub-contractors, on-

going checks by site supervisors, separate area set aside for sorted wastes, clear signage for waste areas etc.
Refer to demolition process
·

Note: Details of the site area to be used for on-site separation, treatment and storage (including weather protection) should be provided on plan drawings accompanying your application.

STAGE THREE – DESIGN OF FACILITIES

- The following details should be shown on your plans:
 - Location of temporary storage space within each dwelling unit;
 - Location of Waste Storage and recycling Area(s), per dwelling unit or located communally onsite. In the latter case this could be a Garbage & Recycling Room;
 - Details of design for Waste Storage and Recycling Area(s) or Garbage and Recycling

Room(s) and any conveyance or volume reduction equipment; and

- Location of communal composting area.
- Access for vehicles.
- Every builder shall be provided with a Waste Storage and Recycling
 Area which is flexible in size and layout to cater for future changes in
 use. The size is to be calculated on the basis of waste generation rates
 and proposed bin sizes.

Stage 3 – Design of Facilities – To be completed if designing waste facilities for the proposed development

Type of waste	Expected	Proposed on	Destination
to be	volume per	site storage	
generated	week	and treatment	
		facilities	
General waste		3 x 1100L bins	Council pickup
		provided to be	
		emptied weekly	
Glass,		3 x 1100L bins	Council pickup
cardboard,		emptied	
cans		fortnightly	
Services bins		2 x 1100L bins	Council pickup
		provided to be	
		emptied weekly	

Note: details of on-site waste management facilities should be provided on plan drawings accompanying your application.

ON-GOING MANAGEMENT

Describe how you intend to ensure on-going management of waste on site (e.g. lease conditions, caretaker / manager on site).

Strata manager will be responsible for the provided bins to be maintained and put out for collection on council specified days
Owner / occupant will be responsible for the sorting out the appropriate product going into the provided bins to reduce the amount of general waste