MASTERS HOME IMPROVEMENT CENTRE
STATION STREET, PENRITH, NSW.

HYDROX NOMINEES

WASTE MANAGEMENT PLAN-
CONSTRUCTION

ARCHITECTS:

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1:00 INTRODUCTION

The following Waste Management plan (WMP) has been developed in accordance with 'Waste Management Guidelines' for the works associated with the proposed Masters Home Improvement and Bulky goods development at Station Street, Penrith.

The proposed development involves the construction of a Masters home improvement store, new carpark, paving and landscaping.

2:00 AIM

The aim of this WMP is to identify the likely waste products that will generate from the construction works and the management procedures to be adopted to minimise the environment impacts of the generated waste and, thus, aiding Bathurst City Council's objective to reduce waste landfill.

3:00 WASTE IDENTIFICATION

Table 3.1 lists the construction activities involved with the proposed works and their (potential) associated waste products.

Table 3.1: Construction Activity Waste Generation

ITEM	CONSTRUCTION ACTIVITY	WASTE PRODUCT
1	Site Amenities	Effluent
2	Office Work	Paper, Cardboard, Packaging, Putrescible Waste
3	Bulk Earthworks	Soil, Green Waste
4	Detail Excavation	Soil
5	Concrete Tilt-up Wall Panels	Concrete, Steel Reinforcement, Formwork (Timber)
6	Structural Steel 'Portal-Frame'	Steel 'off-cuts'
7	Metal Roof Cladding	Metal Roof 'off –cuts'
8	Plasterboard Ceilings/Walls	Plasterboard, Steel off-cuts
9	Vinyl Flooring	Vinyl
10	Aluminium and Glass Windows/shop Fronts/ Curtain Wall	Aluminium, Glass, Silicone
11	'Tile' Flooring	Tile
12	Masonry/Concrete Paving	Masonry, Concrete, Sand, Cement
13	Asphalt Car Park and Access Roads	Road Base; Asphalt
14	Landscaping	Green Waste

4:00 WASTE MANAGEMENT

The following items will be used as a guide to managing the construction activity waste products identified in Table 3.1.

4.01 Site Amenities

The Site amenities are to be connected (where possible) to the (existing) sewerage system. If connection to the sewerage system is not possible, portable self-contained facilities will be utilised for the duration of the early works activities. The portable facilities will be maintained/cleaned regularly by a registered operator.

4.02 Office Works

General office waste will be collected and placed in a central bin located within the site compound. The bin will be emptied as required and the waste will be disposed of at a licensed Inert Waste Class1 Landfill. Where possible, a separate bin for recycling paper products will be provided by a licensed operator, and emptied at a licensed recycling facility.

4.03 Bulk Earthworks

The bulk earthworks will involve the filling of part of the site involving the importing of inert material to the site for the proposed development to raise the floor levels as required by civil engineers.

4.04 Detail Excavation

Detail excavation works will be required for the installation of the structural footings and the like. It is intended the 'spoil' material from the detail excavation works be re-used as fill throughout (for such activities as landscaping, backfill to retaining walls, etc).

4.05 Concrete Tilt-up Wall Panels

Constructing the concrete tilt-up wall panels will result in the generation of concrete, steel reinforcement and timber waste products. All three (3) waste products shall be minimal as a result of the following:

- Correct measurement and ordering of concrete to ensure the delivery of excess concrete to suite is avoided.

Inevitably there will be concrete waste as part of the clean-up process post concrete pour. This excess concrete is to be placed in either a dedicated

Masonry/concrete recycling bins, or in a bin provided by an operator of assorting, processing and recycling facility (such as Collex).

- Steel reinforcement shall be 'scheduled' correctly to suit the design Requirements, which will minimise waste.

As with concrete, it is inevitable there will be excess steel reinforcement to be discarded which is to be placed in either a dedicated metal recycling bin, or in a bin provided by an operator of a sorting, processing and recycling facility (such as Collex).

- The timber waste from the formwork process of the tilt-up wall panels will be limited to minor off-cuts. The formwork timber will be re-used throughout the course of this project and utilised on subsequent projects by the tilt-up wall panel contractor.

4.06 Structural Steel 'Portal-Frame'

The structural steel 'portal-frame' works will generate limited waste, as the 'portal-frames' will be manufactured off-site and erected on-site only.

Any minor steel off-cuts will be placed in either a dedicated metal recycling bin, or in a bin provided by an operator of a sorting, processing and recycling facility (such as Collex).

4.07 Metal Roof Cladding

Ordering metal roof sheets to size shall limit the waste generated from the metal cladding works.

Any off-cuts will be placed in either a dedicated metal recycling bin, or in a bin provided by an operator of a sorting, processing and recycling facility (such as Collex).

4.08 Plasterboard Ceilings/Walls

The minium of waste associated with the plasterboard ceilings and walls includes both the design and construction stages.

During design development, standard plasterboard sheet sizes shall be considered when reviewing wall and ceiling layouts.

During construction, the development of accurate 'cutting-plans' shall aid the reduction of plasterboard waste.

Any off-cuts will be placed in either a dedicated plasterboard recycling bin, or in a bin provided by an operator of a sorting, processing and recycling facility (such as Collex).

4.09 Vinyl Flooring

Vinyl flooring shall be cut-to-size prior to delivery to site. Thus, waste shall be minimised to trimming off-cuts only. The vinyl off-cuts are to be placed in the construction waste bin on site.

4.10 Aluminium and Glass Windows/Shop Fronts/Curtain Wall

The aluminium and glass windows et al will be manufactured off-site to either a pre-determined dimension or site measurements. Thus there shall be minimal waste product as a result of the aluminium and glass works.

Any aluminium off-cuts will be placed in either a dedicated metal recycling bin, or in a bin provided by an operator of a sorting, processing and recycling facility (such as Collex). Any glass waste will be placed in the construction waste bin.

4.11 Tiled Flooring

The minimisation of waste associated with the tiled flooring works includes both the design and construction stages.

During design development, tile sizes shall be considered when reviewing floor layouts.

During construction, the development of accurate 'cutting-plans' shall aid the reduction of tile waste (i.e. off-cuts may be used to fill areas elsewhere on the floor).

Any off-cuts will be placed in the construction waste bin.

4.12 Masonry/Concrete Paving

The minimisation of waste associated with concrete/paving works is as per item, 4.11 above.

Any masonry/concrete paving off-cuts will be placed in either a dedicated masonry/concrete recycling bin, or in a bin provided by an operator of a sorting, processing and recycling facility (such as Collex).

4.13 Asphalt Car Park and Access Roads

Correct measurement, ordering and monitoring of deliveries during the laying phase will ensure the delivery to site of excess asphalt is avoided.

Small quantities of excess asphalt will be placed in the construction waste bin on site. Large quantities of excess asphalt (say due to over ordering) are to be sent back to the manufacturer for disposal.

4.14 Landscaping

Green waste (of a very minor nature) will be generated as a result of the landscaping works, as well as the clearing works at the commencement of the project.

Where practical all green waste will be recycled on site (eg. Stockpile topsoil from clearing process for use in final landscaping works; any plant cuttings to be mulched or composted, etc).

5.0 Waste Management Report

A waste management report is to be implemented on the project to ensure the type, quantity, date and disposal method for all waste on site is recorded.

An indicative Waste Management Report is attached as Annexure A.

WASTE MANAGMENT REPORT

DATE	TYPE OF MATERIALS	EST VOL (m3)	WASTE DISPOSAL CONTRACTOR	LOCATION (i.e. Recycling facility, landfill)