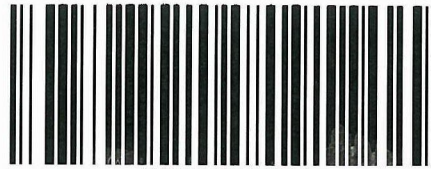


Our Ref: 497DA228 (I1/908) STH08/01370
Contact: Andrea Boes 4221 2771
Your Ref: MP06_0209 MOD 3



PCU025187

Department of Planning & Infrastructure
GPO Box 39
Sydney NSW 2001

Attention: Anthony Witherdin

**WOLLONGONG CITY COUNCIL – MP06_0209 MODIFICATION 3 – KEIRA STREET,
WOLLONGONG PROPOSED MIXED USE DEVELOPMENT**

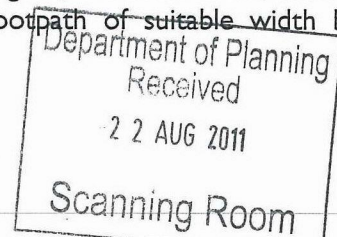
Dear Sir

Reference is made to your letter dated 5 August 2011 regarding the subject development application forwarded to the Roads and Traffic Authority (RTA) for consideration.

The RTA has reviewed the submitted information and offers the following comments for your consideration:

- The RTA notes the current modification 3 application reduces the gross floor area of the development by 4,358m² and reduces the number of parking spaces provided by 128 spaces. Given this, the RTA has no significant concerns regarding the traffic generation of the development.
- The RTA does not believe that the development adequately provides for public transport, particularly in light of the recent modifications to the bus stops within the Wollongong CBD. Specifically, the proposal has not adequately catered for the relocation of the northbound bus stop from the Transit Mall to outside of the existing Bing Lee Development. The West Keira Development represents a major development in Wollongong CBD that will draw large numbers of people to the CBD and as such the RTA considers that the proponent must provide appropriate public transport infrastructure. Based on all of the above, the RTA would not support the proposal unless the following issues were addressed by the proponent:
 - Provision of a widened footpath at the bus stop to adequately accommodate pedestrians travelling north south along the western side of Keira Street and the provision of bus shelters to accommodate the bus passengers waiting to catch a bus. This may require indentation within the proponent's site.
 - The bus shelters should be in accordance with the attached designs identified in a joint study between the RTA and Council titled "Wollongong CBD Bus Interchange Passenger Infrastructure Upgrade". In this regard, the bus shelters are to be located adjacent to the kerb with a pedestrian footpath of suitable width between the shelters and the building façade.

Roads and Traffic Authority



A plan showing how these issues will be addressed should be provided to the RTA prior to determination.

- The RTA has concerns that the graded proposed pedestrian entry off Crown Street has the potential to create road safety issues. In this regard, the RTA considers that the ramps providing access from the GPT development Retail Level 2 down to the Crown Street footpath create the potential for a collision with vehicles on Crown Street, particularly for prams and disabled users. The RTA considers this issue needs to be assessed in detail and addressed where necessary by some form of kerbside barrier. The assessment needs to include a detailed plan at this location, identifying the grades of the ramps/footpath and the location of the pedestrian crossing at the signalised junction of Crown Street/Keira Street.

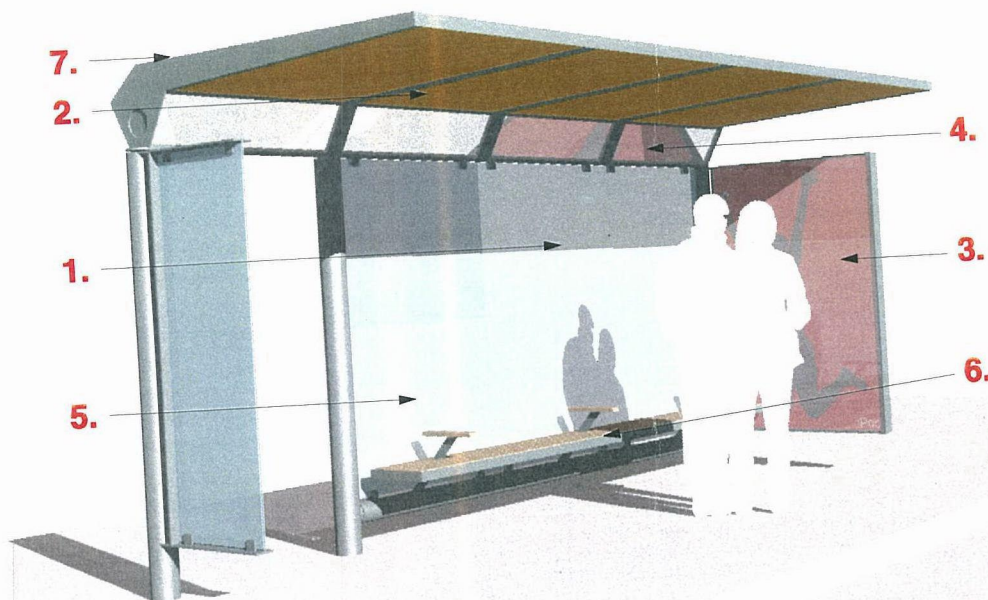
The RTA does not support the proposed modification until the above issues have been addressed. If you have any questions please contact Andrea Boes on 4221 2771.

Yours faithfully



18/8/11

Brian Lefoe
Manager, Road Safety and Traffic Management
Southern Operations and Engineering Services



PERSPECTIVE SKETCH

DESIGN PRINCIPALS

1. Maximise glass- or transparency for safety and security.
2. A solid roof- Alucabond- colour lemon yellow- solid colour range- to give strong visual marker.
3. Advertising panel 600mm from kerb, away from approaching bus.
4. Continuous light clads top beam - can include location signage
5. End Panel to include large format timetable
6. Seats maximised to 3.6 module
7. Fine roof profile gives distinctive character. 1800 cantilever maximises protection



ABN 74 090 135 035
Level 6, 89-92 Wentworth Avenue, Sydney, NSW 2010, Australia
T 61 2 0211 8111 F 61 2 0211 8112 M 61 2 0211 8113 E info@mcgregorwestlake.com.au
www.mcgregorwestlake.com.au

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LEGEND / SPECIFICATION / FINISHES

STRUCTURAL

ALL Structural elements are nominal only.
All to be signed off by a Structural engineer in consultation with the Architect.
Structure is to be fully welded. Only Canopy as a whole may be a separately bolted element to columns. To be verified by builder and engineer as a buildability issue.
All columns + primary beam @140CHS x 5mm wall -SC1
Seat beam @114 CHS
T-Section outriggers- Cut from 200 UBs. 100 wide flange - 150mm high top section- tapered
RC Reinforced Concrete Footings, to structural engineers requirements.
Allow for a template to locate cast in bolts to accurately attach to column base plates.

PAINT SYSTEM for all steel elements

Protective Coating - Dulux
1st Coat Zincode 202 to a Dry Film Thickness of 75 microns
2nd Coat Ferreko No3 to a Dry Film Thickness of 100 microns
3rd Coat Weathermax HBR (Colour Ferrodor "Natural Steel Grey") to a Dry Film Thickness of 100 microns.

The above coating systems can be discussed if you require with Peter Vilcek of Orica Protective Coatings on 0411 024 118.

Below ground steel to be suitably coated with a bituminous coating.

ELECTRICAL SPEC

All to conform to AS 3,000 + NSW installation rules
Allow for 1 photo electric cell per shelter for switching on and off.
Negotiate with electrical supplier for connection.
Provide shop drawings for inspection
Lights to be Slimline T5 21Watts from Sylvania lighting. (865mm units or continuous). With poly carbonate diffuser and IP21 rating.
Wiring to be routed up columns to lights above beam.

SEAT

Recycled hardwood 65 x 19mm nom sections at 5mm spacings. Hidden screw fixings from base of frame.

ROOF

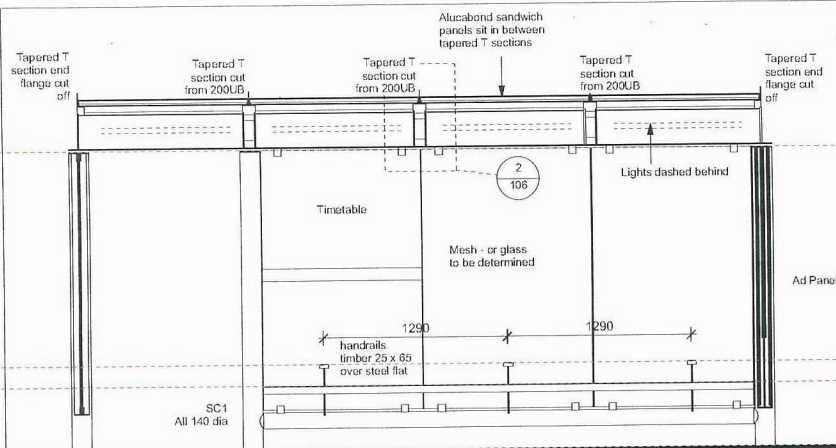
Roof Alucabond - sandwich panel Alucabond to wrap both side around a 35mm top section at 600 centres. To be confirmed by engineer.
COLOUR - "Lemon" from Solid Colour range.
Contact Ben Di Giorgi 0415 661446

GLAZING

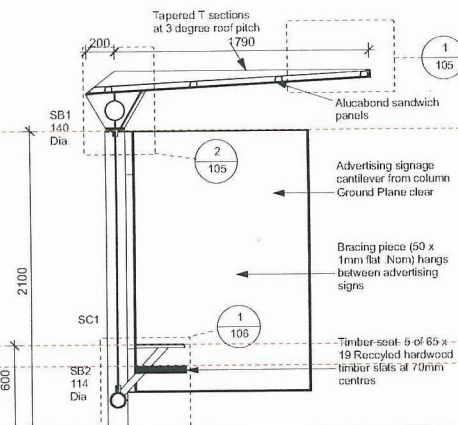
To be determined (OR MESH) - if glazing is used all panels to be toughened laminated in accordance with as 1288 + 4667

DD 100	COVER SHEET
DD 101	LAYOUT PLAN
DD 102	PLANS
DD 103	SECTIONS
DD 104	ELEVATIONS
DD 105	DETAILS 1
DD 106	DETAILS 2
DD 107	3 D VIEWS
DD 108	3D DETAILS
DD 109	8.4 MODULE PLAN+ ELEVATION
DD 110	8.4 MODULE 3D VIEW
DD 111	PERSPECTIVE VIEW
DD 112	8.4 LAYOUT
DD 113	FOOTING DIAGRAM

ISSUE	DATE	REVISION	PROJECT #
PROJECT			1106
CLIENT	WOLLONGONG COUNCIL	DATE #	DWG #
DWG	COVER SHEET	SCALE @ A3	100 DD
		DRAWN	WG
		CHECKED	PM
		REVISION	

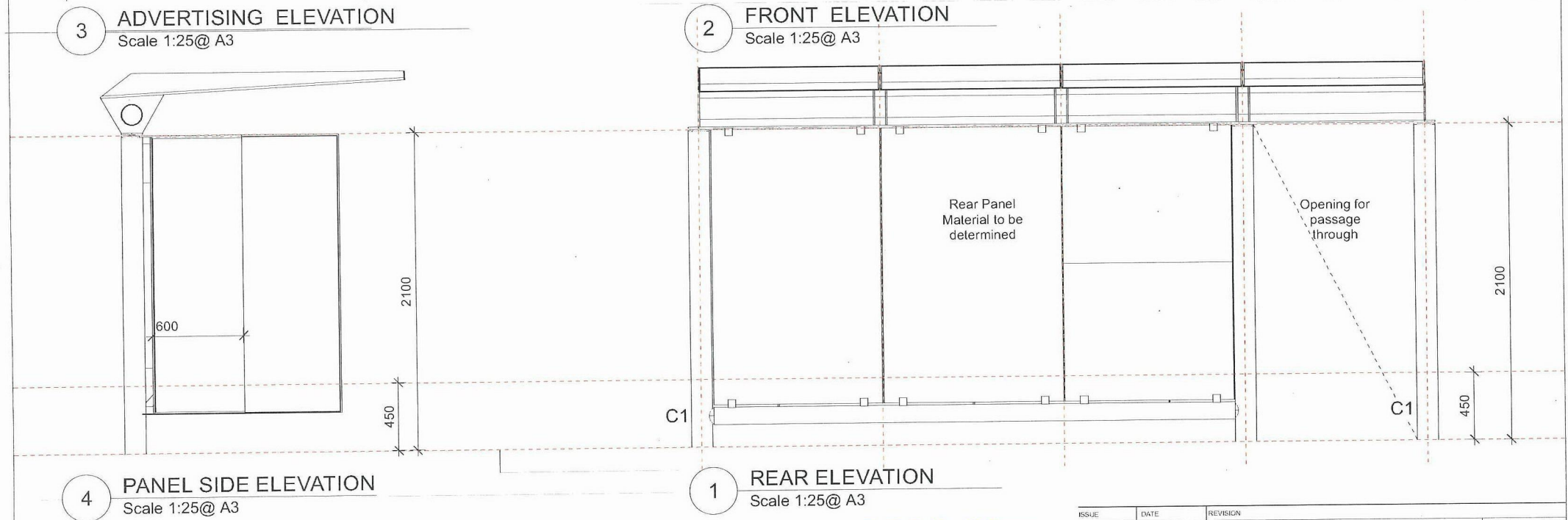
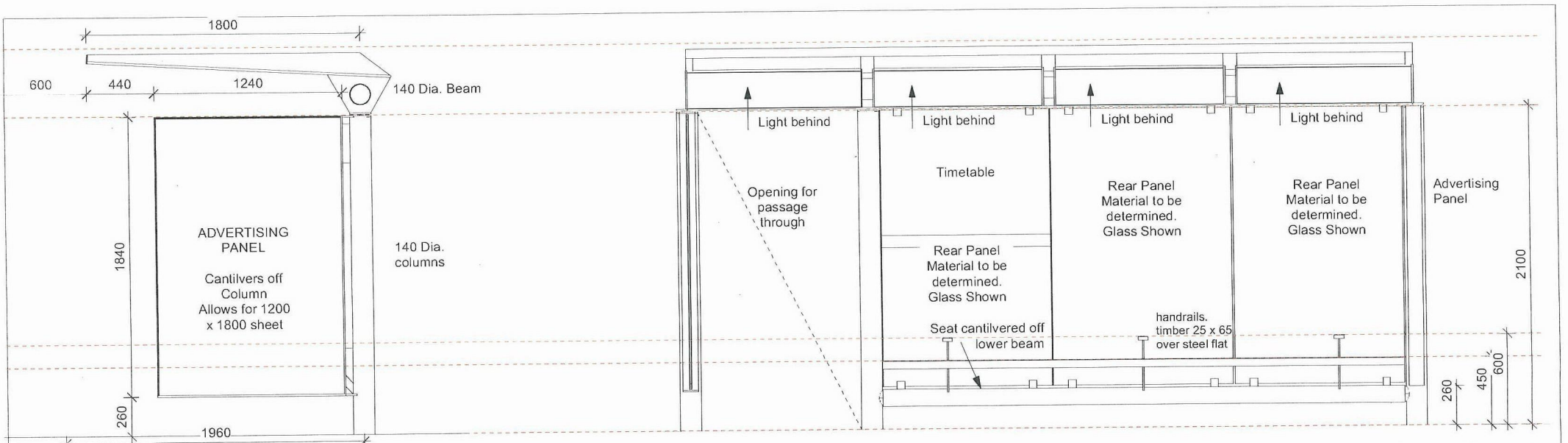


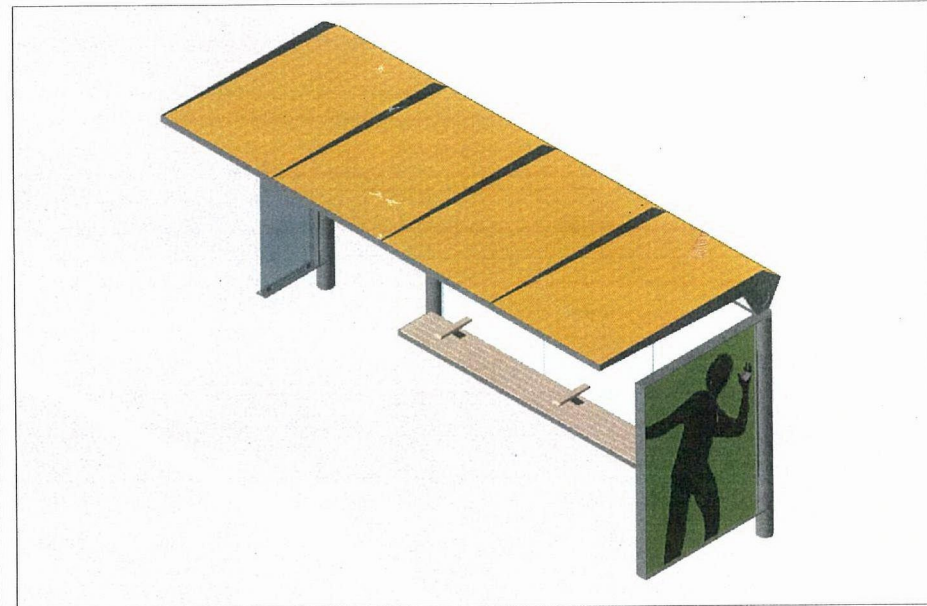
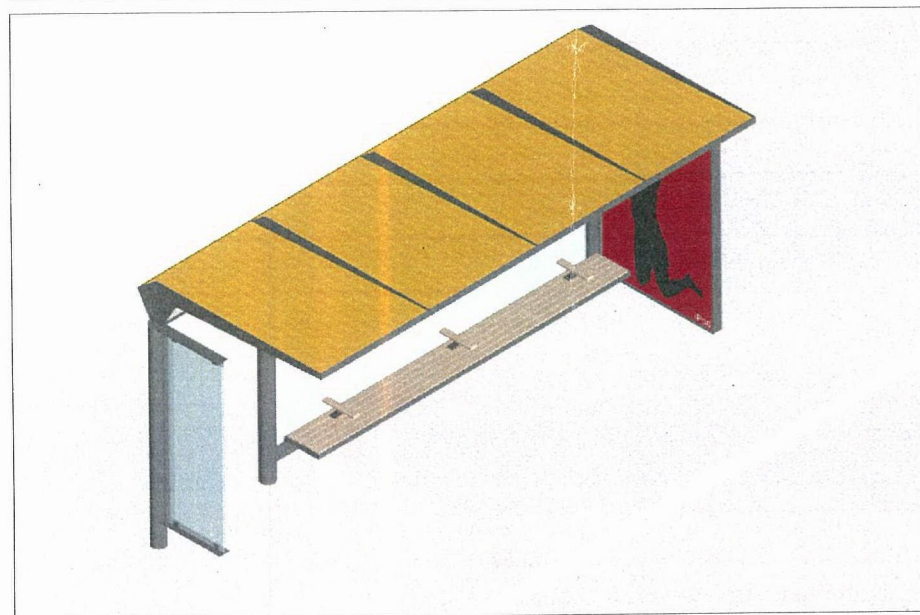
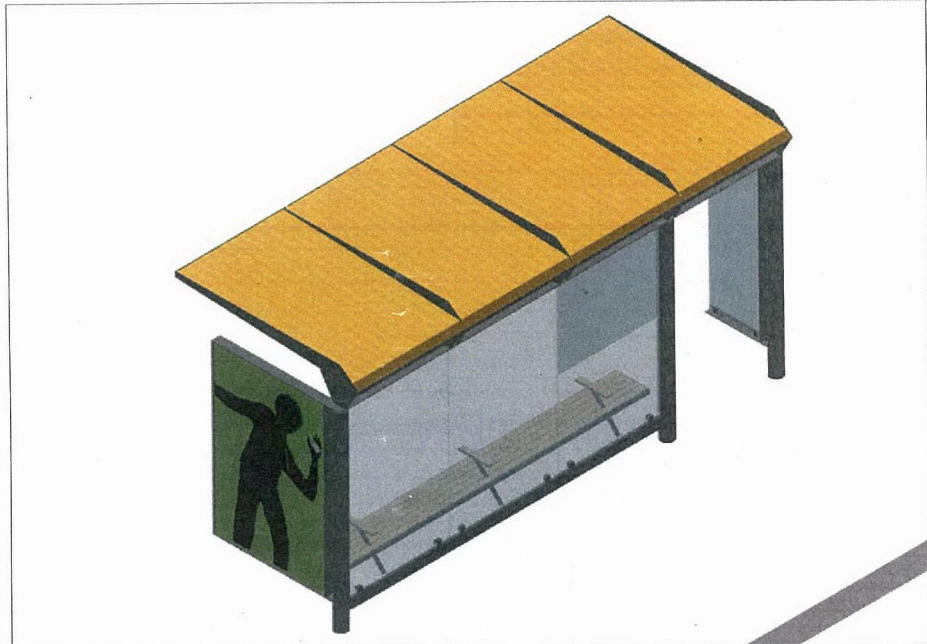
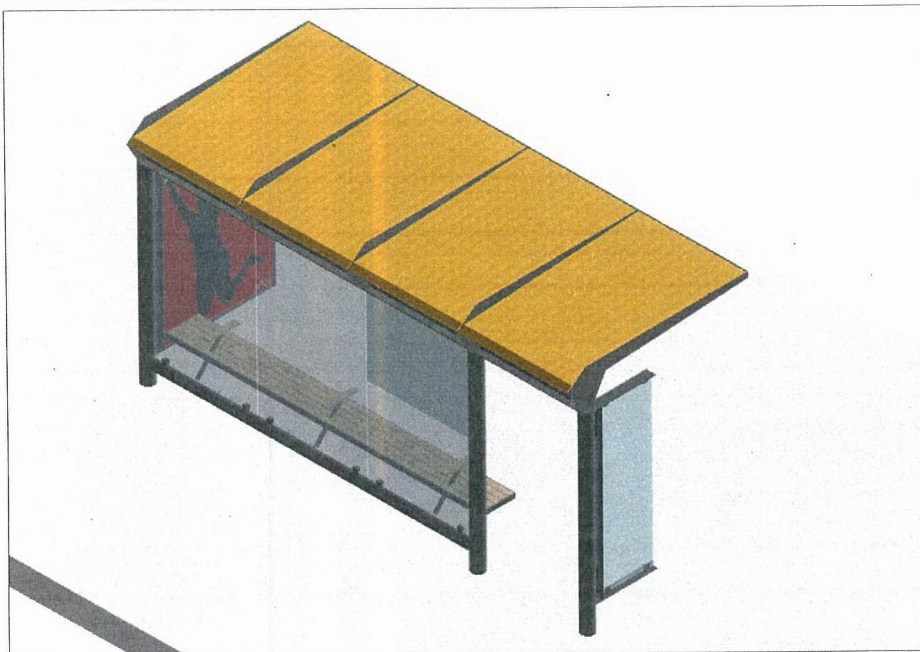
1 SECTION
Scale 1:25 @ A3



2 SECTION
Scale 1:25 @ A3

ISSUE	DATE	REVISION	PROJECT
PROJECT			BUSTOPS DESIGN PROJECT
CLIENT			WOLLONGONG COUNCIL
DATE			1106
SCALE @ A3	1:25		103 DD
DRAWN	WV		
CHECK	PM		





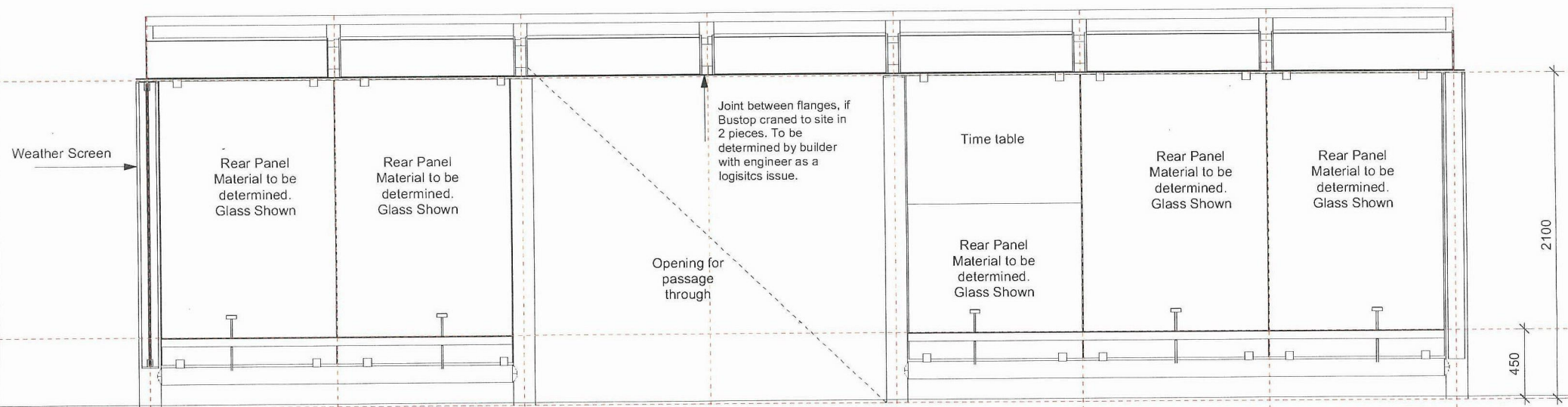
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Axonometric Views

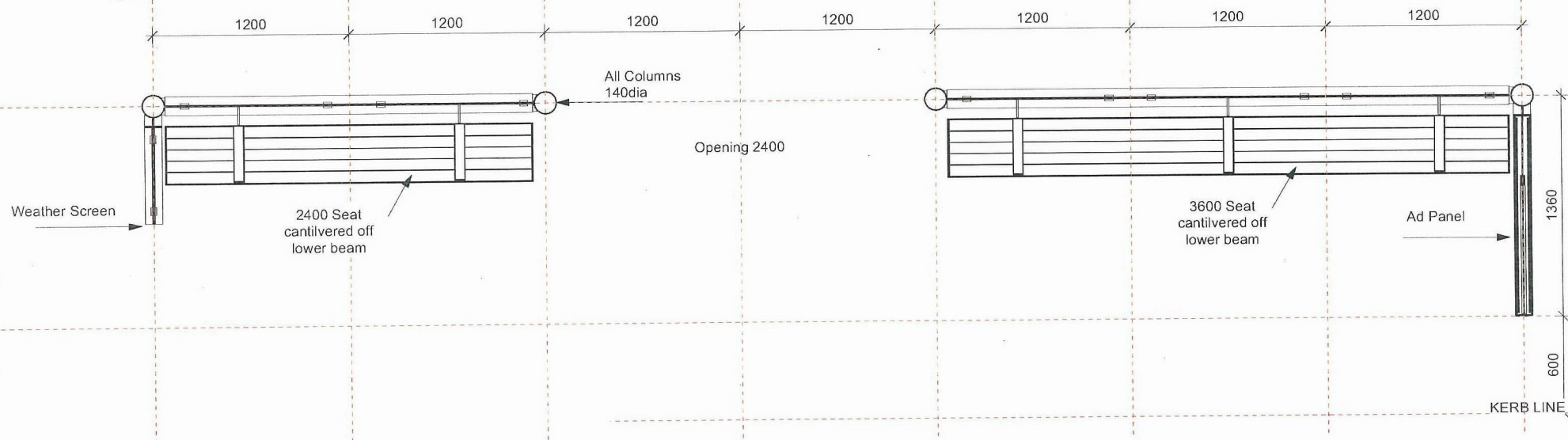


**McGregor
Westlake
Architecture**
ABN 74 090 130 068
Level 15, 66-72 Wentworth Avenue, Sydney, NSW, 2010, Australia
T 615 9213 8161 F 615 9281 3171 studio@mcgregorwestlake.com.au
www.mcgregorwestlake.com.au

ISSUE	DATE	REVISION	PROJECT #
PROJECT			1106
CLIENT	BUSTOPS DESIGN PROJECT		DWG #
DWG	WOLLONGONG COUNCIL		107 DD
			DATE #
			SCALE 80: A3
			NTS
			DRAWN
			WG
			QHD
			PM
			REVISION



2 ELEVATION
Scale 1:25 @ A3



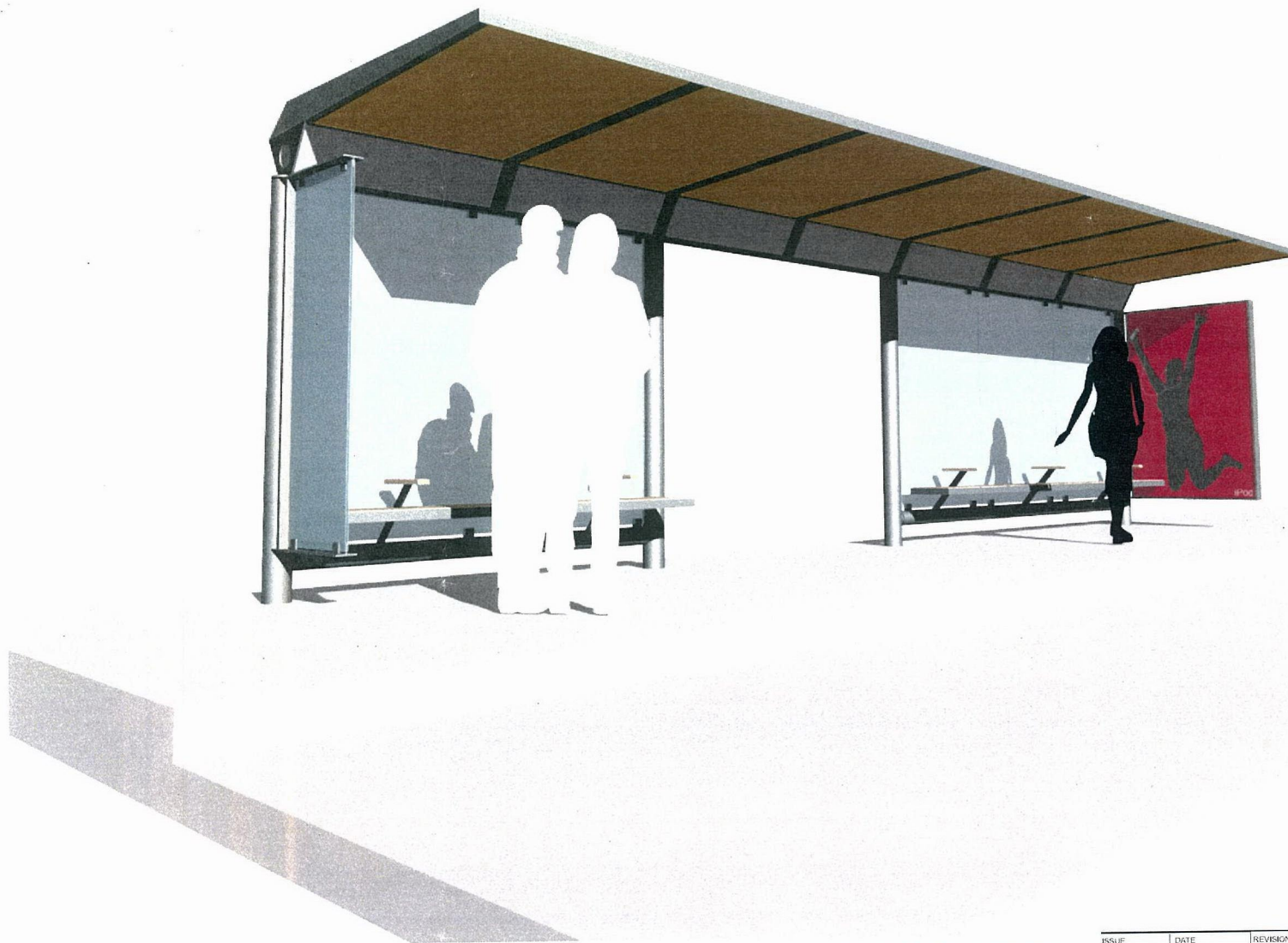
1 PLAN
Scale 1:25 @ A3



**McGregor
Westlake
Architecture**

ABN 74 090 135 035
Level 6, 83-72 Wentworth Avenue, Sydney, NSW, 2010, Australia
T: 612 0211 8151 F: 612 0211 3171 studio@mcgregorwestlake.com.au
www.mwarchitects.com.au

ISSUE	DATE	REVISION	PROJECT #
PROJECT			1106
CLIENT	DATE #	SCALE @ A3	DWG #
WOLLONGONG COUNCIL		NTS	109 DD
DWG	DRAWN	WG	REVISION
8.4 MODULE	CHCD	PM	



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Westlake
Architecture**

ABN 74 090 135 030
Level 6, 89-92 Waverley Avenue, Surry Hills, NSW 2010, Australia
T: 612 9211 8111 F: 612 9211 4121 m@mcgregorwestlake.com.au
www.mcgregorwestlake.com.au

ISSUE	DATE	REVISION	PROJECT #
PROJECT	BUSTOPS DESIGN PROJECT		1106
CLIENT	WOLLONGONG COUNCIL		DWG #
	DATE #	NTS	110 DD
	SCALE @ A3	WG	
DWG	DRAWN	PM	REVISION
PERSPECTIVE VIEW OF 8.4 MODULE			



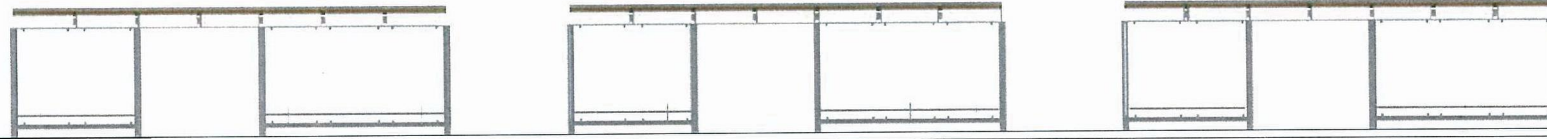
INDICATIVE VIEW, SHOWING BENIFIT OF GLASS BACKING MATERIAL.



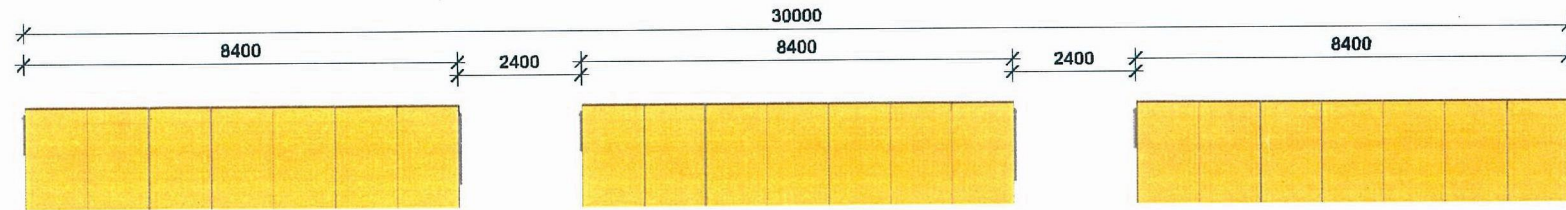
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Westlake
Architecture**

ABN 74 090 139 086
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T 612 9211 6157 F 612 9201 3171 studio@mcgregorwestlake.com.au
www.mcgregorwestlake.com.au

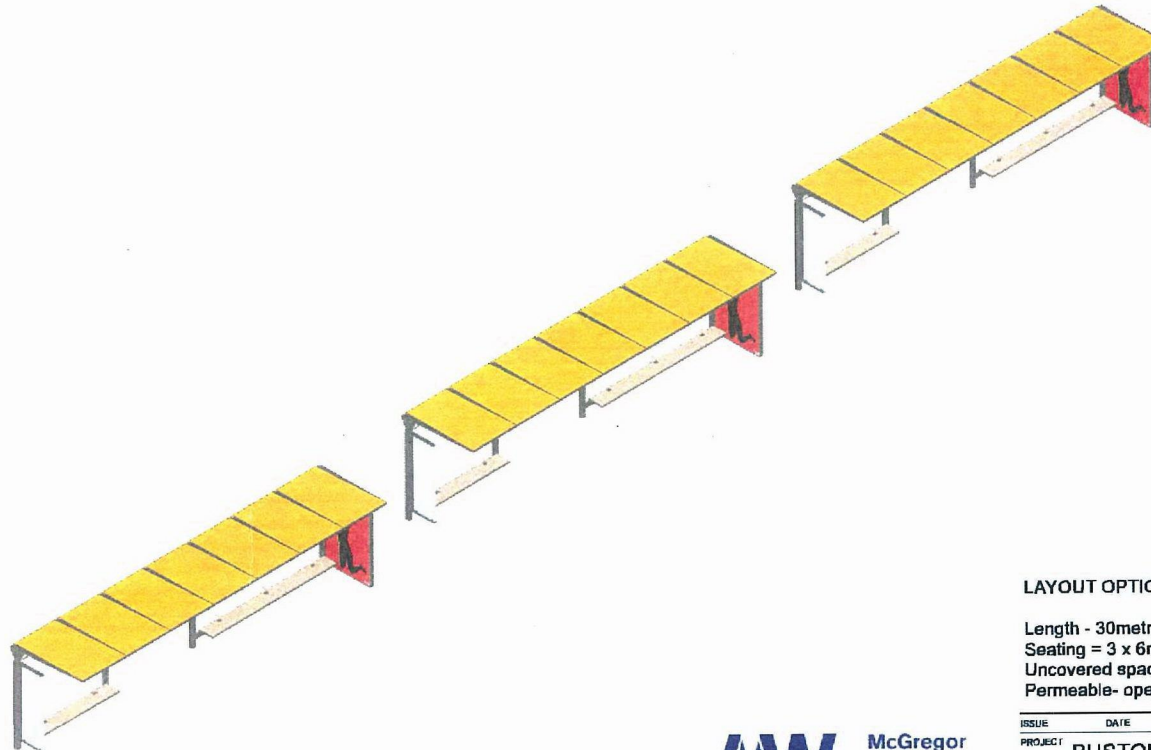
ISSUE	DATE	REVISION	PROJECT #	
PROJECT	BUSTOPS DESIGN PROJECT		1106	
CLIENT	WOLLONGONG COUNCIL		DATE #	DWG #
DWG	PERSPECTIVE MONTAGE OF INSTALLATION		SCALE 8: A3 NTS	111 DD
			DRAWN WJC	
			CHECK PM	REVISION



ELEVATION



PLAN



LAYOUT OPTION - 3 X 8.4 METRE SHELTERS WITH A 2.4 SPACING

Length - 30metres
Seating = 3 x 6m = 18metres
Uncovered space = 2 x 2.4 = 4.8
Permeable- openings = 4.8metre between shelters



**McGregor
Westlake
Architecture**

ABN 74 090 135 085
Level 5, 99-102 Wentworth Avenue, Sydney, NSW 2010, Australia
T 612 5211 8181 F 612 5281 3171 studio@mcgregorwestlake.com.au
www.mcgregorwestlake.com.au

ISSUE	DATE	REVISION	PROJECT #
PROJECT			1106
CLIENT			
DWG			
BUSTOPS DESIGN PROJECT			DATE #
WOLLONGONG COUNCIL			SCALE @ A3
EXISTING OPTION 3 X 8.4			NTS
			DRAWN
			CHKD
			PM
			REVISION

AXONOMETRIC