



CASE STUDY



Bibra Lake Changing Places Restroom, Western Australia





Case study details

Customer:	City of Cockburn
Product:	Custom “Changing Rooms” restroom facility
Location:	Bibra Lakes Regional Playground, Western Australia
Installer:	PML Installations
Ref No:	29158

Overview

It is among the most spectacular playgrounds in Australia, thanks to a \$3.4 million upgrade completed in early 2017.

Featuring amazing interactive public art, shelters, barbecues and themed vegetation, Bibra Lake Playground is not only a wonderland for children but is built to welcome and accommodate people with disabilities.

The “Changing Places” restroom facility

designed, manufactured and installed by Landmark Products is a key ingredient of this disability-inclusive approach by the City of Cockburn.

Changing Places is an international project which advocates for public toilets with an automated adult-sized change tables and automated hoists and access doors in major public spaces, to meet the needs of people with severe and profound disabilities.



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Facility design

The Bibra Lake restroom is visible from both Progress Drive and the new playground (pictured left), easily accessed by all members of the public. The brief was to produce a facility to “capture architecturally and tastefully the key themes of the location, both historic and contemporary”.

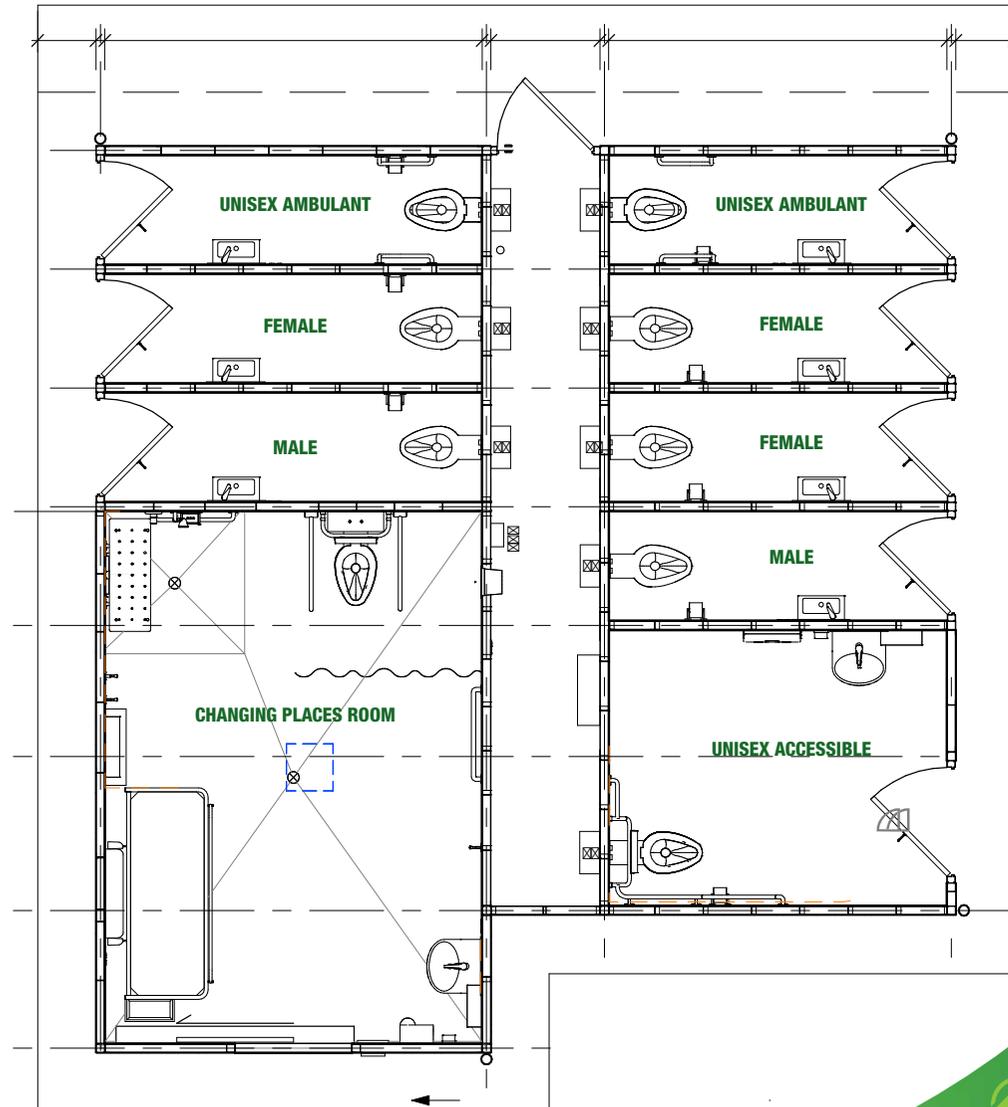
The feature of the facility is the 15 square metre Changing Places room which includes such equipment which gives carers the confidence to take day trips, knowing that all toiletry and hygiene needs are fully met if needed.

Eight other toilet cubicles are also included, including a unisex accessible, two unisex ambulant, two female and two male cubicles. All cubicle doors are fitted with automated lock-out system.

A service duct runs the length of the facility, allowing, storage space, protection of services, cisterns, switchboard and pump control switchboard, and easy maintenance of all toilet systems.

Drafting and planning

Landmark’s design and drafting team produced a multi-faceted design specification for the restroom, including framing plan, slab plan and footing details, hydraulic layout, drainage and water supply plans and electrical layout.





Changing Places fit-out

The major inclusions in these roomy toilet facilities are automatic doors, remoted control adult-sized change tables, automated remote-controlled hoists (with re-charging in any position option) and Changing Places toilets pan and showers. The overhead hoist uses the XY system or gantry, providing coverage over the entire room with a safe working load of 180 kg.

The change table and hoists are remotely controlled by low voltage and capable of managing 250 kg (tested up to 300 kg load capacity).

The automatic doors allow for one button entry and one button locking once inside with occupancy lighting. Highest security is retained through the national MLAK (Master Locksmith Access Key).

The walls around the Changing Places room were insulated with wall batts.

A Changing Places representative accredited the facility as complaint with all necessary standards.





Aesthetics

The eye-catching finish on these facilities is achieved through Aluminium Composite Material (ACM) wall cladding, and the astute use of laser-cut aluminium artwork in colours that are consistent with other artwork throughout the park, with the design intended to reflect the lake's Aboriginal heritage and local wildlife.

Electrical and lighting

The electrical fit-out in the Changing Places room included the automatic door controllers and operator, the adjustable height change table and the hoist.

LED Lights were installed in all other cubicles and a hot water system in the service duct.



Roofing

The block features a 10-degree pitched skillion roof and aluminium ventilation screens allowing for consistent airflow.





Installation

As with all Landmark Products, this 63 square metre structure was pre-fabricated in the factory before being delivered in kit-form on site. From the pouring of the slab until the handover took just over four weeks.





Above: Mayor of City of Cockburn, Logan Howlett, speaking at the opening of the launch of the Changing Places restroom at Bibra Lake, Western Australia.

Comments from Council representatives

“... the quality of work noted was impressive and similar to previous projects that Landmark has delivered for the City of Wanneroo.”

Representative from City of Wanneroo.

“I was extremely impressed not only with the playground, its design, playground elements and quality of finish, but also with Landmark’s toilet block and changing places facility. The modern design of the combination toilet block/ changing place facility at Bibra lake, its construction, componentry and overall finish were top class and the artwork just finished off a great project.”

Representative from City of Vincent.

“My feedback on the toilet facility (and the playground) is all positive, and those involved should be applauded. The toilet facility is absolutely stunning, with the artwork on the facility was very bright and modern, helping set the tone of the overall park. From a maintenance perspective, I did enjoy the keyless features around the block and the self-locking mechanism. In terms of functionality, it’s safe to say that the amenities available within the disabled space was a crowd favourite.”

Representative from City of Gosnells

