

06/05/2025

Richard Crookes Constructions

Level 3/4 Broadcast Way

NSW 2064

Attn: Marek Sorm (sormm@richardcrookes.com.au)

PROJECT: IMHC – Integrated Mental Health Complex

**Westmead Hospital Campus, Hawkesbury Road, Westmead (Lot 1 DP1194390 and Lot 4 DP
1077852) / SSD-44034342-Mod-2**

STATEMENT OF FLOOD MITIGATION – ELECTRICAL SERVICES

GRiD Electrical Services has provided this statement at the request of Richard Crookes Construction (RCC) to outline the flood mitigation measures, considerations, provisions, and actions implemented by GRiD Electrical in the design of the Main Switchroom at the Integrated Mental Health Complex (Cumberland Hospital).

Main Switchroom (MSR)

The Main Switchroom was subjected to value engineering and relocated from Level 10 to Level 01, positioned above the PMF level. The MSR is situated at an elevation of 21,900 RL. This placement does not adversely affect the installation or operational performance of the associated equipment, as the PMF is established at 18,900 RL and the freeboard line at 19,400 RL.

Yours Sincerely,



Andre Sousa

Electrical Engineer, BE, NER, RPEng.

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STATEMENT OF FLOOD MITIGATION - ELECTRICAL

GRiD Electrical Services has provided this statement at the request of Richard Crookes Construction (RCC) to outline the flood mitigation measures, considerations, provisions, and actions implemented by GRiD Electrical in the design of the Generator and Padmounted Substation Plant at the Integrated Mental Health Complex (Cumberland Hospital).

The following details of the mitigation measures are provided, with the understanding that the effectiveness and viability of these measures depend on RCC ensuring that all finished floor levels are constructed in accordance with the detailed drawings attached. Please note that these services are classified as Essential Services under the Engineering Services Guidelines.

Generator Plant

A containerized generator was relocated from Level 10 to Level 00, situated above the PMF level at 19,200 RL. Noting the required PMF level of 18,900 RL + 500mm freeboard, within the generator container all components sit on steel plinth and all are located at 19,400 RL or above. The base of the container is further waterproofed with a bunded belly tank up to RL 19,500.

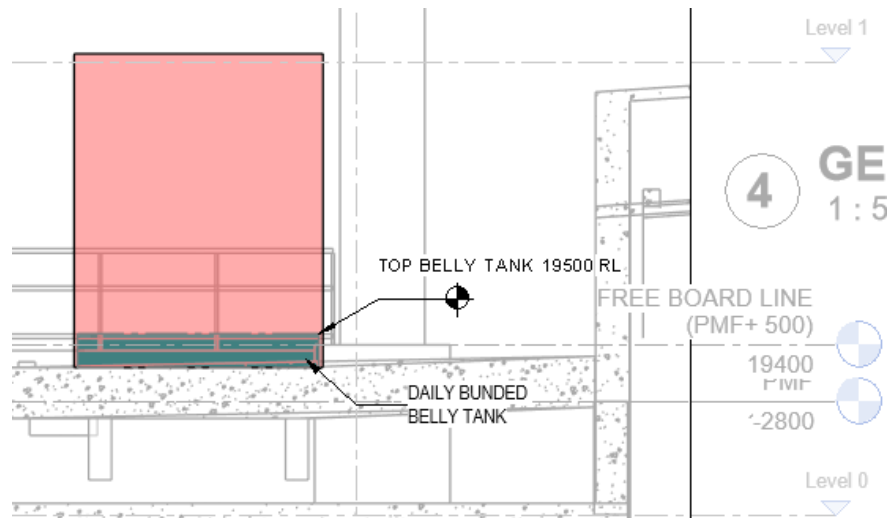


Figure 1 - Source: IMHC GRID Electrical Revit Model – Generator

Padmounted Substation Plant - Kiosks

Two Padmounted Substations were relocated from Level 10 to Level 00 situated above the PMF level at 19,200 RL. Noting the required PMF level of 18,900 RL + 500mm freeboard. The Kiosks will be placed on 200mm concrete plinths which means all the components are located above 19,400 RL.

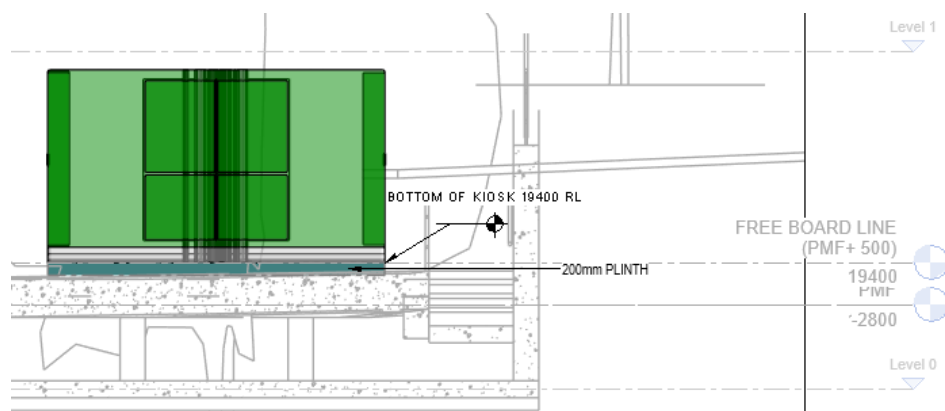


Figure 2 - Source: IMHC GRID Electrical Revit Model – Padmount Substation

We believe that the proposed measures above are adequate to ensure an uninterrupted power supply to the hospital during a flood event.

Yours Sincerely,



Andre Sousa

Electrical Engineer, BE, NER, RPEng.