

## COMPLETED PROJECTS

<b>SITE:</b>	<b>Perth Stadium</b>
<b>LOCATION:</b>	Burswood
<b>SCOPE OF WORK:</b>	Fire Protection – (Wet Fire)
<b>COMPLETION DATE:</b>	October 2017



*Construction of the Perth Stadium commenced in December 2014 and will be a world class venue with seating capacity of 60,000. The Stadium will be utilised for a range of events including AFL, cricket, rugby, soccer and concerts. The state of the art building has been features including a lightweight fabric roof which covers 85% of the seats and the seating configuration will give fans exceptional views close to any event action.*

*The venue is located so that it easily accessible by all forms of transport, fans can arrive by foot via the Swan River pedestrian bridge, catch a train the Stadium station which will be Perth's second biggest station or ride on the special event buses that will stop in East Perth.*

### SCOPE DETAILS

Within our scope for this project we were tasked with the design and construct contract for all the Wet Fire services which included:

- A fully compliant Fire Sprinkler system with combined water supply in accordance with AS2118.1 & AS2118.6
- Duty & Standby Fire Pumps in accordance with AS2941
- Above Ground Fire Water Storage Tanks in accordance with AS2304
- Fire Extinguishers in accordance with AS2444
- Fire Hose Reels in accordance with AS2441
- Fire Hydrants in accordance with AS2419

## CHALLENGES & SOLUTIONS

Throughout the project there were various challenges which we had to overcome:

- Firstly, during the tender process we were engaged to engineer a solution which would allow the project to be designed in such a way that we could reduce the total number of sprinkler heads to a level suitable to the client without compromising the integrity of the level of fire protection provided despite the complicated non-standard nature of the structural components.

Firesafe were able to achieve this based on the information available at the time through our Design and Management team and the inclusion of the Consultant to ensure that compliance with the design intent and specification was not hindered.



- The way in which the construction process and program was coordinated meant that Firesafe were required to visit areas on numerous occasions essentially creating a Base Build and Tenancy Fitout sequence of working, and which were required to be completed in a small timeframe from availability of fitout drawings to the completion of our works.

Firesafe were able to provide adequate resources in order to fulfil our obligation to complete the design works in timeous manner and subsequently provide a sufficient level of onsite labour workforce to complete multiple work fronts simultaneously.

- The design for the project was executed primarily utilising Autodesk Revit 3D Design software in which Firesafe have a wealth of experience. We were able to constantly showcase our expertise; providing design information and drawings on or better than program requirements whilst working with and coordinating with other contractors and architectural requirements in line with the relevant BIM plans.