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Software, Electronics and Mechanical Consulting Engineers

Traffic Management priority system for the Boarding Houses at 14 & 16 Wyatt Ave Belrose

Overview:

In the referral response from Traffic for DA2021/1039, Northern Beaches Council has requested:

“The driveway ramps to both the upper and lower carparks are curved and less than 5.5m in width and therefore of insufficient width to allow for two vehicles to pass. As vehicles exiting the carpark will not be able to see vehicles entering the carpark traffic light control requiring exiting vehicles to wait for an entering to vehicle to pass must be provided for both carparks. Details to be included on the DA plans including markings to denote the location of the waiting bay.”

Proposal:

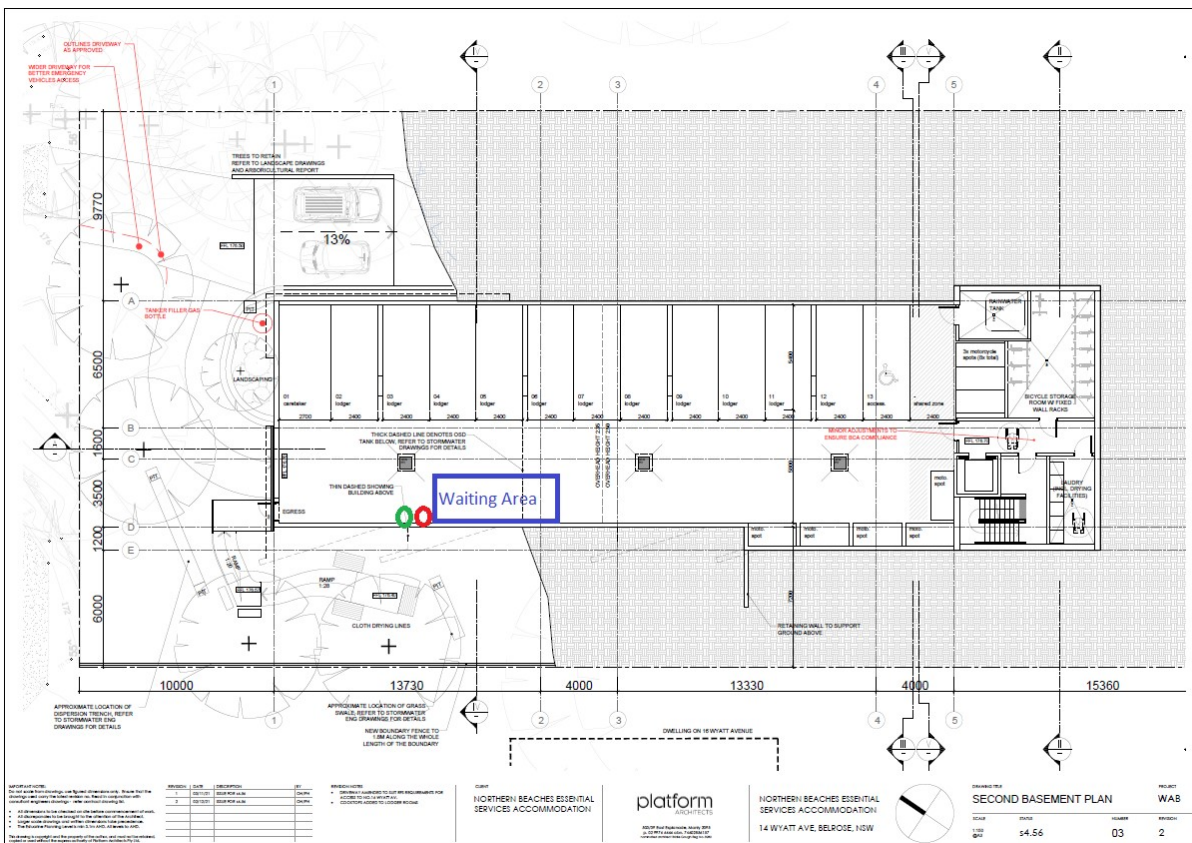
We believe it is proposed to now use the driveway at 14 Wyatt Ave Belrose to provide access to the proposed Lower Boarding house at 16 Wyatt Ave Belrose. As such the above comment is now pertinent to the driveways at both 14 Wyatt Ave Belrose and 16 Wyatt Ave Belrose.

We propose installing three traffic light priority systems. One in the basement carpark of the boarding house at 14 Wyatt Ave Belrose, one in the basement carpark of the upper boarding house at 16 Wyatt Ave Belrose and one in the basement carpark of the lower boarding house at 16 Wyatt Ave Belrose.

System 1: 14 Wyatt Ave Belrose:

This traffic light priority system will control vehicles exiting the carpark from the boarding house at 14 Wyatt Ave Belrose. It will only provide a green light to allow exiting when there are no vehicles on the driveway. There will be vehicle detection loops located at the top and bottom of the driveway and the entrance to the boarding house carpark at 14 Wyatt Ave. These vehicle detection loops will inform the controller that there is a vehicle on the driveway. If there is a vehicle on the driveway the exit light for the carpark from 14 Wyatt Ave will turn from Green to Red. The light will only turn to green once all vehicles have left the driveway.

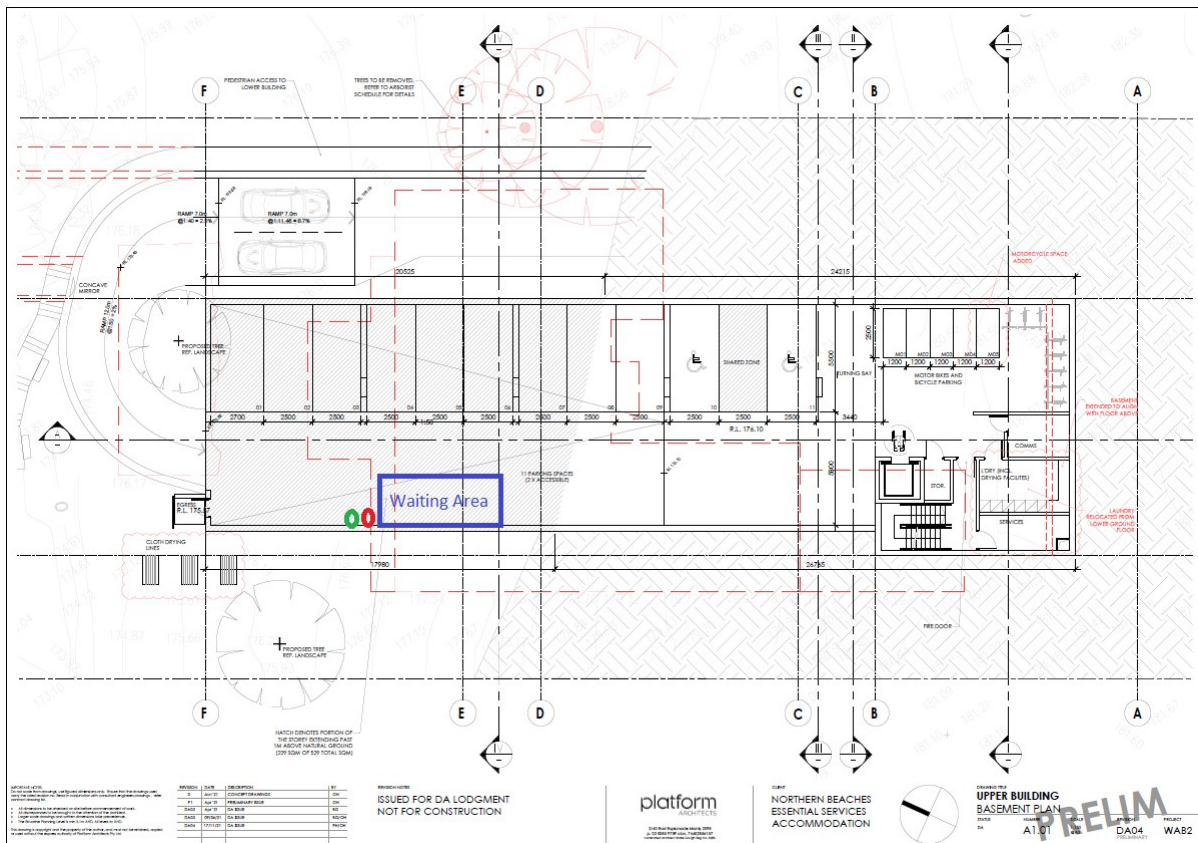
The Red/Green light pair and waiting area will be as shown below:



System 2: 16 Wyatt Ave Belrose (Upper building):

This traffic light priority system will control vehicles exiting the carpark from the upper boarding house at 16 Wyatt Ave Belrose. It will only provide a green light to allow exit when there are no vehicles on the upper driveway. There will be vehicle detection loops located at the top of the upper driveway and the entrance to the upper boarding house carpark at 16 Wyatt Ave. These vehicle detection loops will inform the controller that there is a vehicle on the driveway. If there is a vehicle on the driveway the exit light for the basement carpark for the upper building at 16 Wyatt Ave will turn from Green to Red. The light will only turn to green once all vehicles have left the driveway.

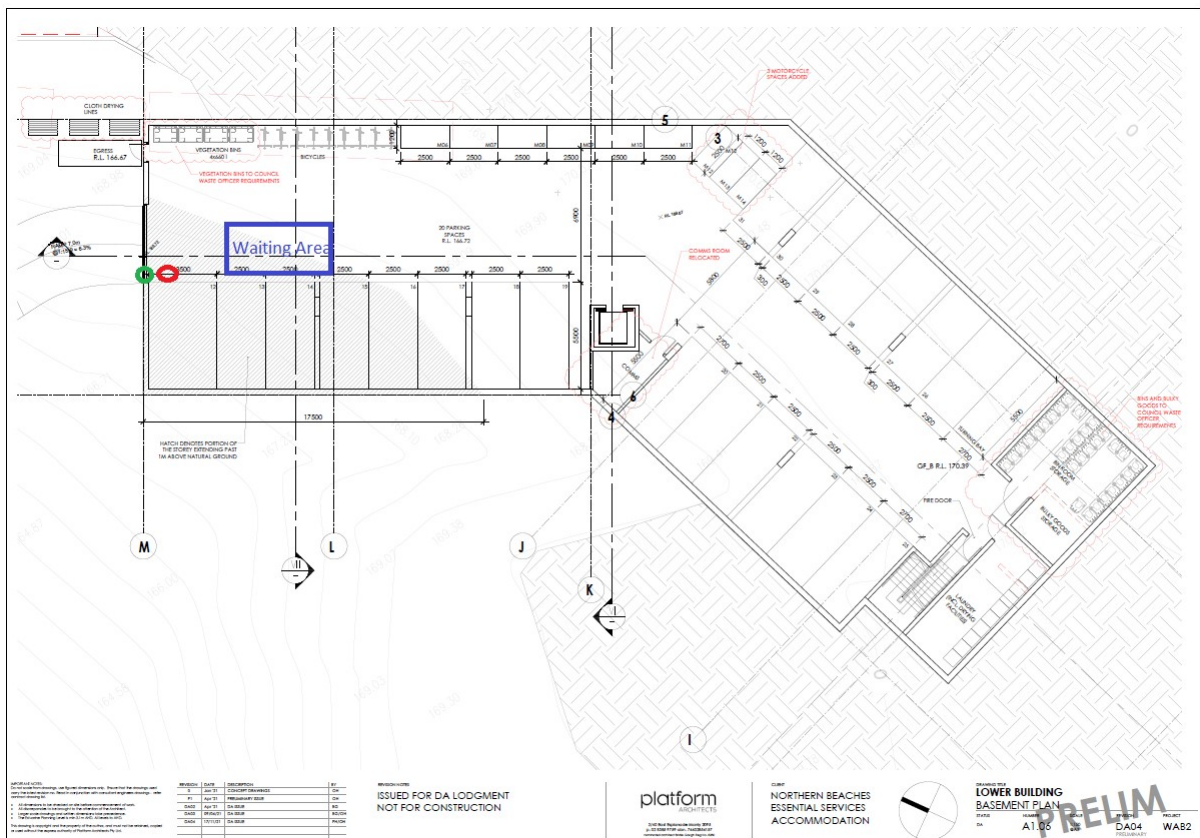
The Red/Green light pair and waiting area will be as shown below:



System 3: 16 Wyatt Ave Belrose (Lower building):

This traffic light priority system will control vehicles exiting the basement carpark from the lower boarding house at 16 Wyatt Ave Belrose. It will only provide a green light to allow exit when there are no vehicles on the bottom part of the driveway to the boarding house. There will be vehicle detection loops located at the top of the bottom part of the driveway and the entrance to the basement carpark at the lower building at 16 Wyatt Ave. These vehicle detection loops will inform the controller that there is a vehicle on the driveway. If there is a vehicle on the driveway the exit light for the basement carpark from lower building at 16 Wyatt Ave will turn from Green to Red. The light will only turn to green once all vehicles have left the driveway.

The Red/Green light pair and waiting area will be as shown below:



Experience

Holman Engineering has extensive experience in designing, supplying and maintaining Parking Guidance and Traffic Management system. Many of the Parking Guidance and Traffic Management systems installed in car parks around Australia are systems designed by Holman Engineering. Below is a photo of a typical traffic management system installed at a carpark in Castlereagh St Sydney:



Holman Engineering has two websites which show our experience in these areas:

www.holman.com.au

www.parkingguidance.com.au