

Built form

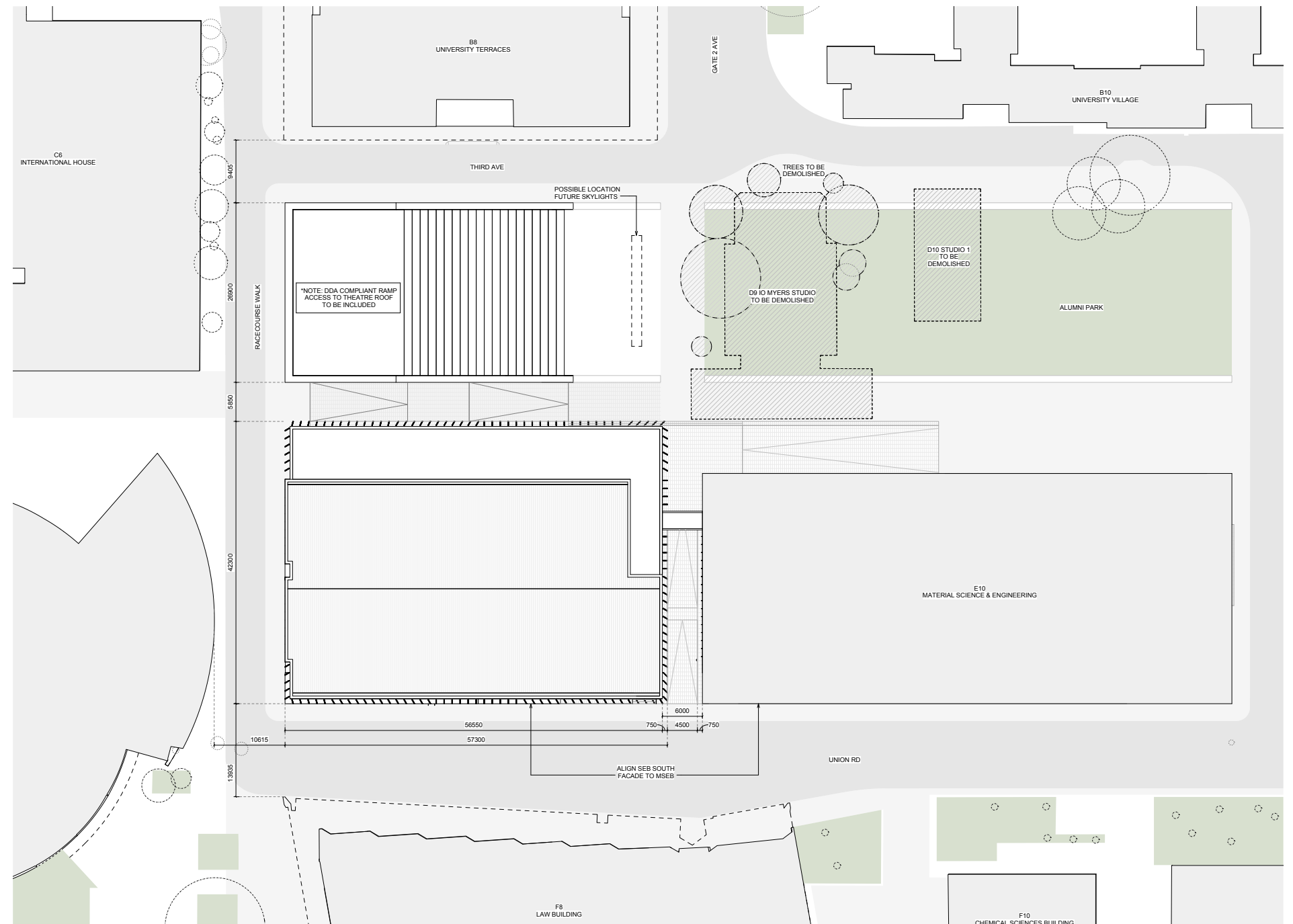
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## 5.1 Bulk and Scale

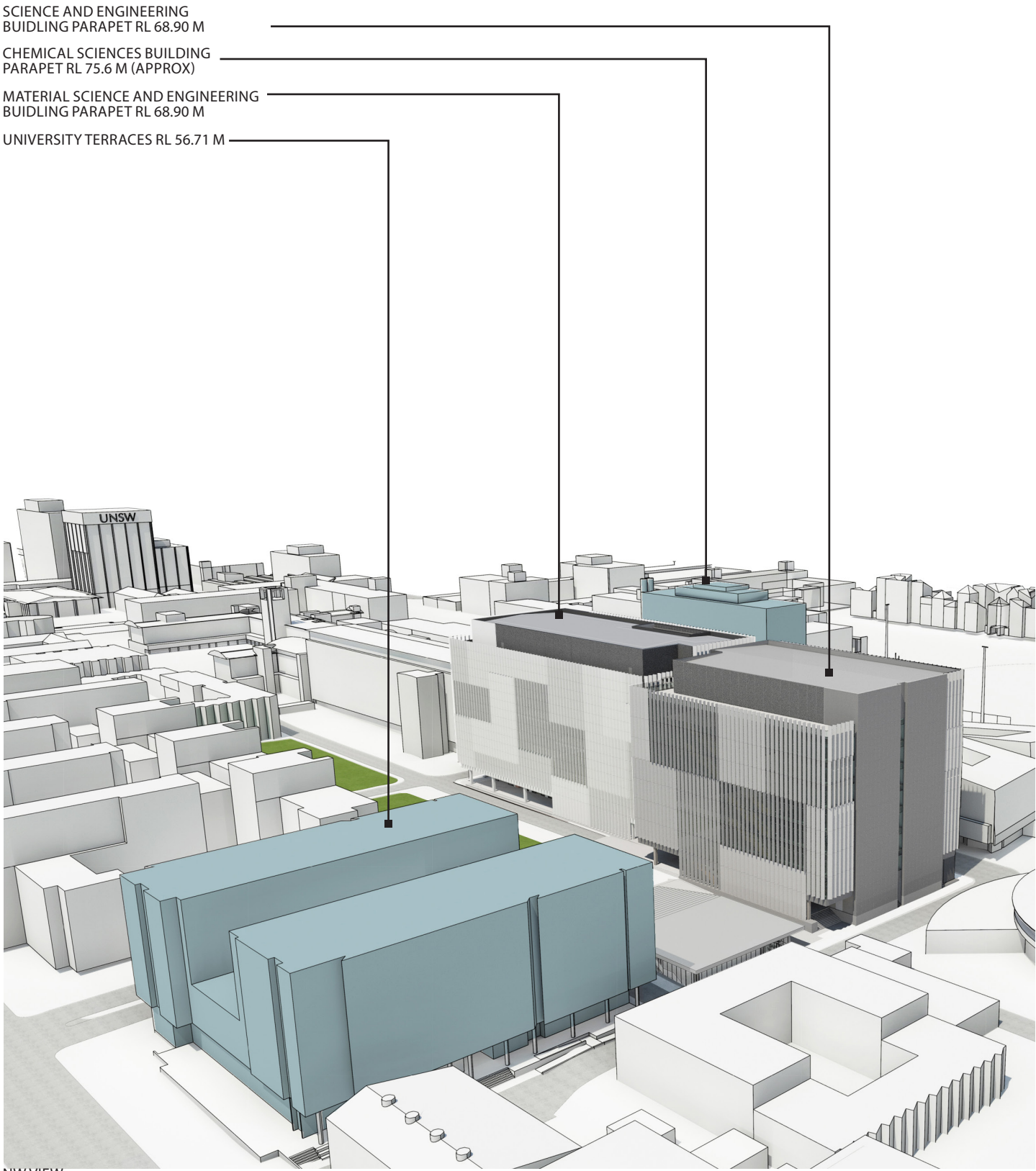
### SITE LAYOUT AND SETBACKS

The Science and Engineering Building sits as a backdrop to Alumni Park with the recently completed MSEB Building to the east, the Law building to the south and the Roundhouse to the west. The new building responds to a broader strategic research strategy, with the proposed GFA UNSW seeks to maximise the potential of the site. Urban design principles include the aligning with the western façade of the University Terraces Building as well as the continuity of the MSEB façade along Union Road. The formal building separation of 6 meters is articulated by recessing the bridge links that connect both buildings. The increased distance to the refurbished Roundhouse building allows for a new pedestrian passageway from Gate 1 to the Mall and a new circular service road that services the buildings along Union Road, International Road and Third Avenue and connects to Gate 2. Our design proposes a new sidewalk along Third Avenue in order to maintain a sensible setback from the Lower Ground Floor to the University Terraces to the North.

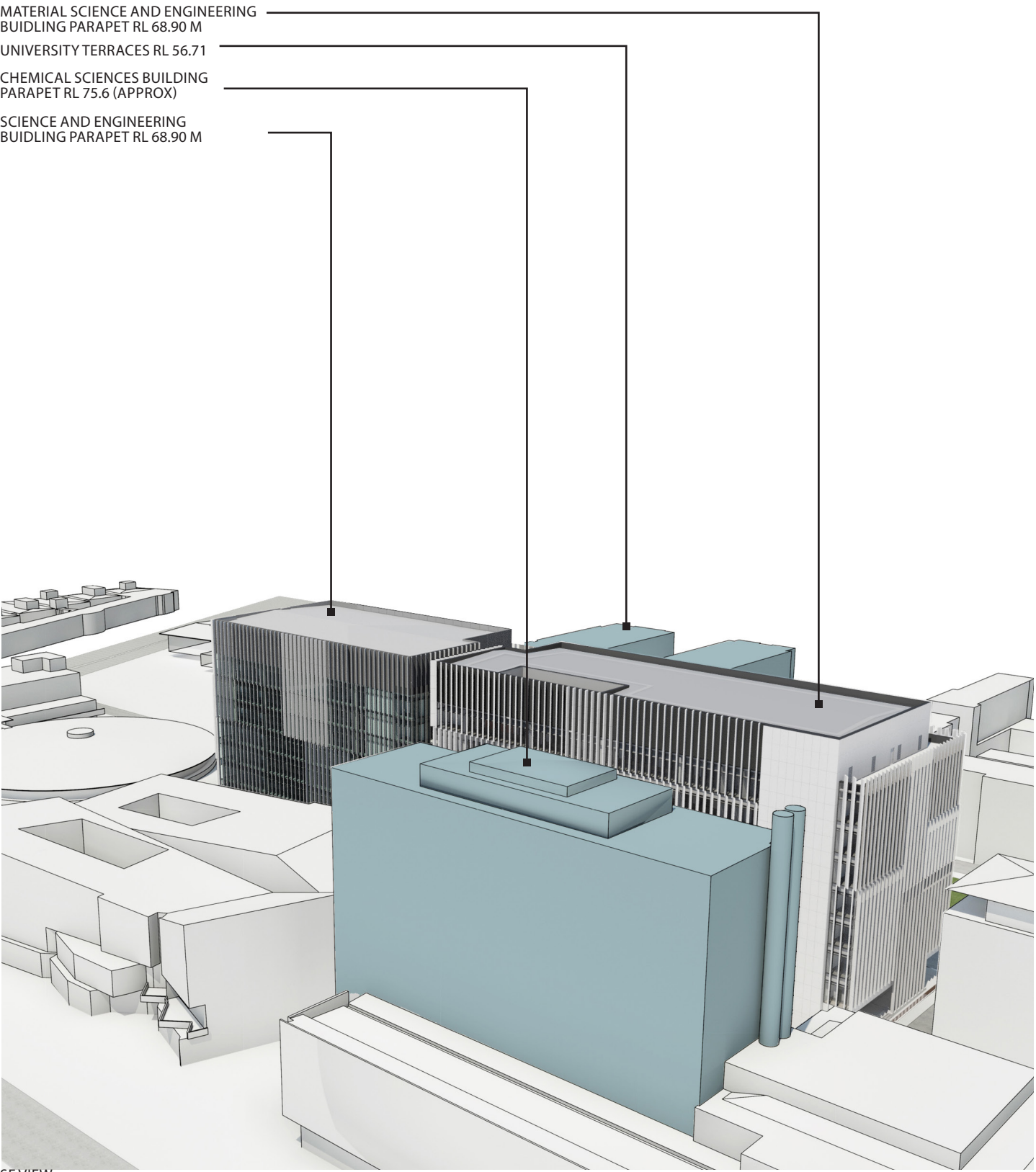


SITE PLAN SETBACKS

BUILT FORM AND HEIGHT

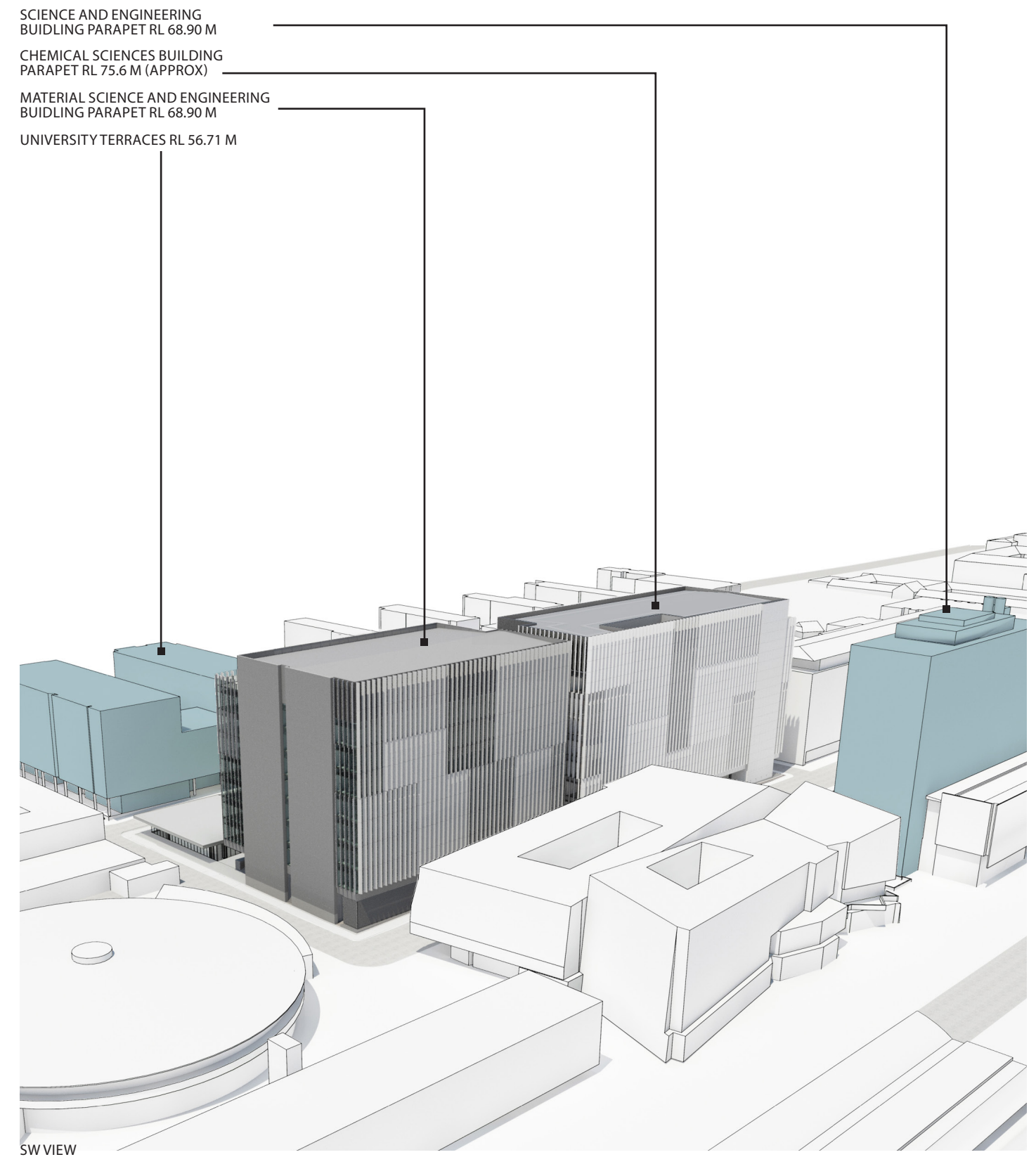
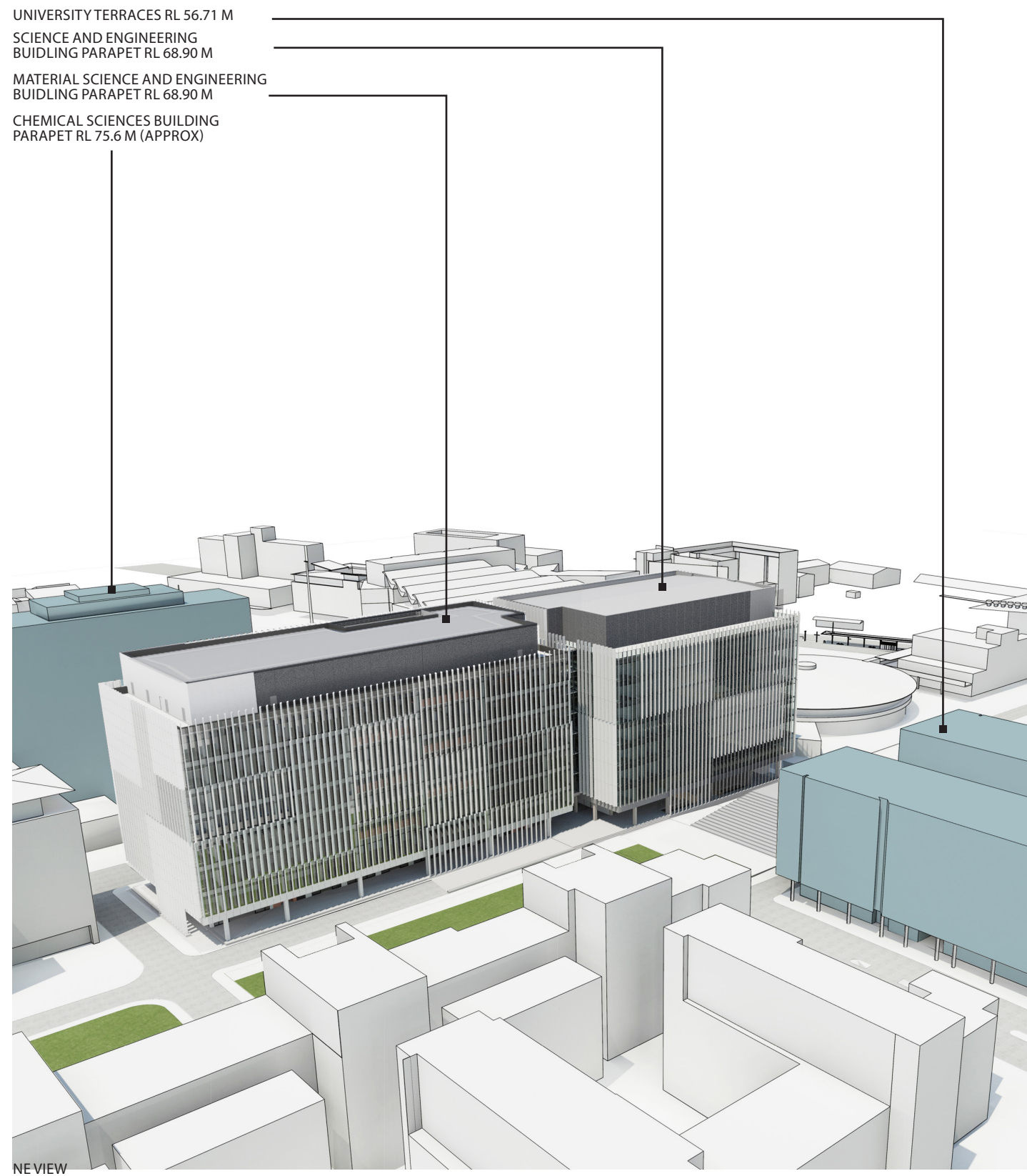


NW VIEW



SE VIEW

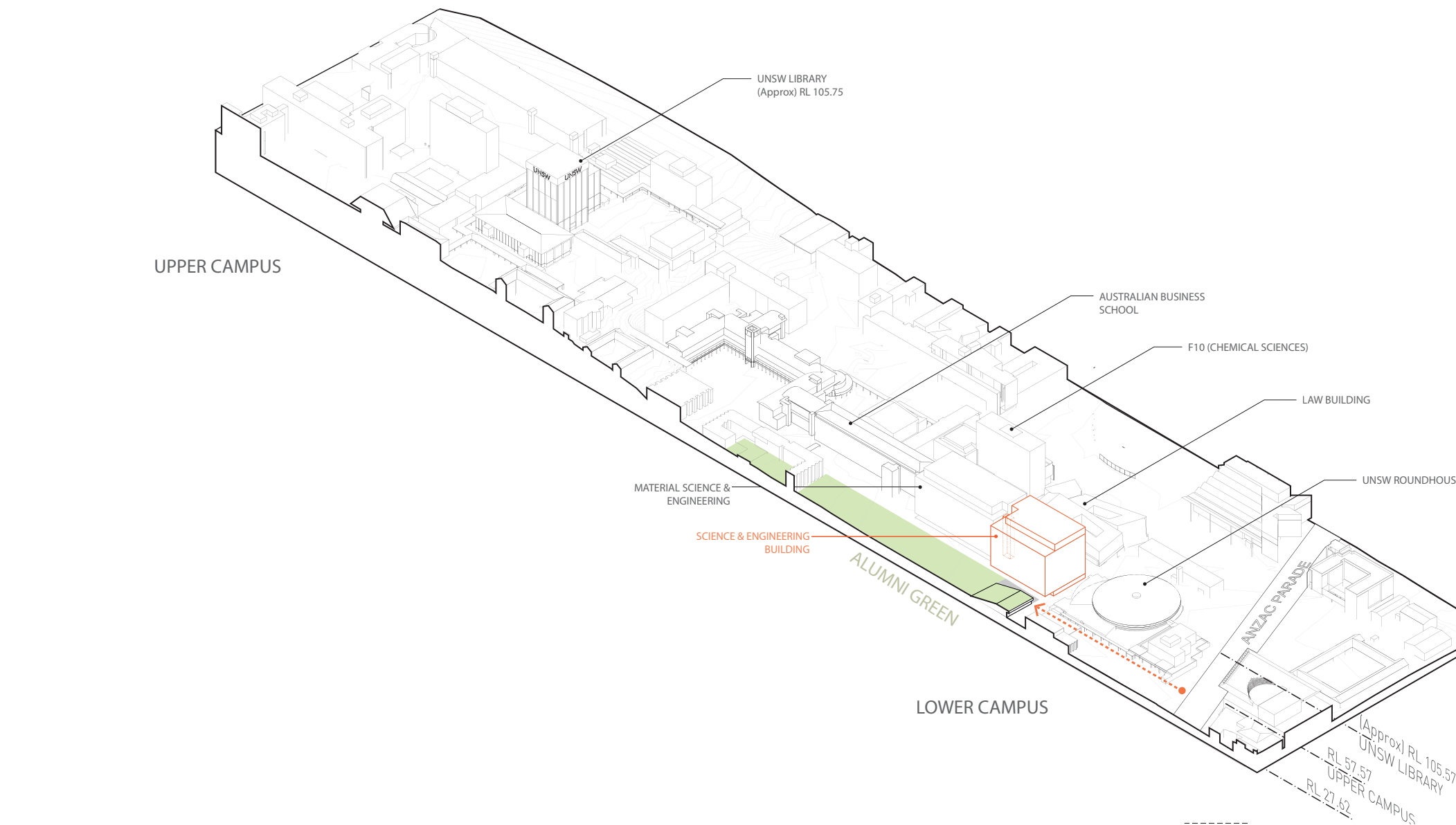




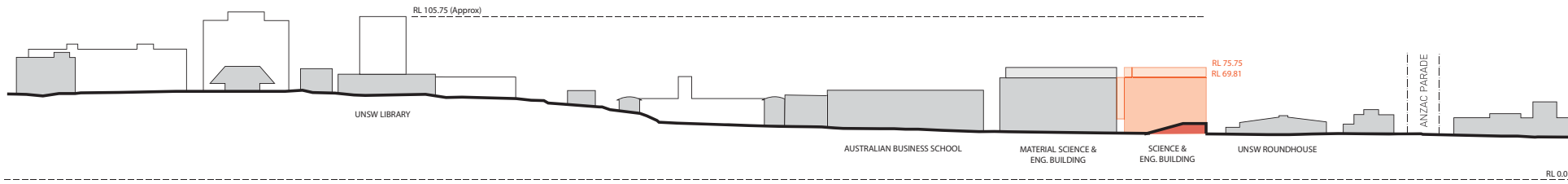
The proposed building in the context of the new Alumni Park seeks to frame the southern edge of the new park whilst maintaining a clear separation between the student accommodation and academic uses in the centre of the campus. The massing and height of the building is a direct consequence of the floor plate requirements for Chemical Engineering and Chemistry Research and the desire to extend the existing Material Sciences building and to create a new public space on the lower campus.

The building has the same height as the Material Sciences building which enables bridge links that connect on every level. Both buildings are designed to work as one building by sharing break-out spaces, meeting rooms and other non-generic spaces and allowing research groups to spread over both buildings. The building comprises a lower ground floor, ground floor, 7 levels above ground and a plantroom, with an RL at 73.80, inclusive of plant. Level 8 accommodates the rooftop plantroom which is set back from the façade edges towards Alumni Park in order to reduce the visual impact. The building layout allows optimal floor to floor heights to be considered with a floor to floor height of 4.5 metres typically except for the ground and basement where a 5.4m allows for the provision of laboratories with larger equipment.

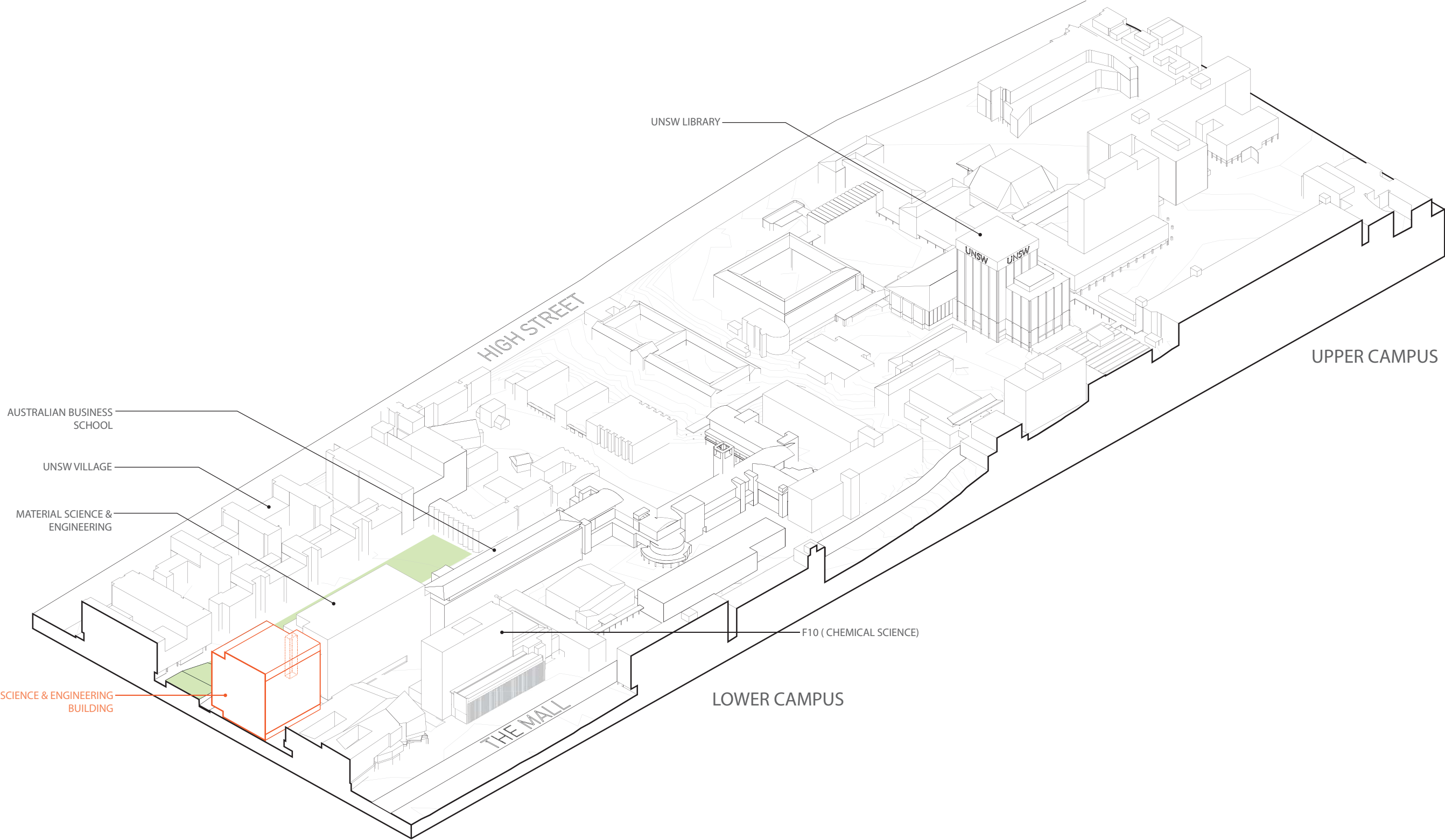
University Terraces student accommodation at Gate 2, the redevelopment of Kensington Colleges at Gates 4 and 5 and the Material Sciences Building, along with the Sciences and Engineering building, will help to define the new space within the campus.



BUILT FORM - AXONOMETRIC VIEW



STREETSCAPE ELEVATION



BUILT FORM - AXONOMETRIC VIEW