The proposed building section has been developed based on the feasibility studies undertaken during Stage 02. The principles of the design revolve around semiconductor facilities. The main ISO labs are located in the center of the building and services from both below and above. The supporting plant and equipment for specialist tools is located on the ground floor and access is provided through several openings in the first floor slab to the main general labs. A raised access floor above the first floor slab allows for limited services and primarily acts as a plenum for air circulation within the labs.

Above the clean rooms there is an interstitial ceiling for the majority of services to be supplied to the labs below and to allow access to ceiling mounted fan coil units, lighting and secondary equipment such as smoke detectors and sprinkler systems.

The offices located on the second floor wrap around the proposed plant space allowing direct access from the second floor plant space to the interstitial ceiling and labs below.

The first floor houses the ISO laboratory’s and supporting labs. Primary access to the labs is located to the south west corner with a suitable changing area. The organics lab located in the south west has a separate changing facility to avoid cross contamination between labs. Ventilated passageways are provided between dirty and clean spaces in the organics and general labs.

Customer bays and first lab facility’s are located to the south access from the western circulation corridor. Customer bays can be operated as clean or dirty spaces. When operating in a clean mode they are access from the main clean lab space. When operated as dirty labs they are access from the corridor and sealed from the main lab space.

The kithen space is proposed to act as the ‘heart’ of the building community, as such the furniture layout is defined options for open seating and more private booths should be included.

Additionally to the office several meeting rooms a board room and shared kitchen are proposed. Meeting rooms have been created in different sizes and configurations from single occupancy to large open plan spaces.

The kitchen space is proposed to act as the ‘heart’ of the building community, as such the furniture layout is defined options for open seating and more private booths should be included.

The main entrance from west.