

4 Design Strategy

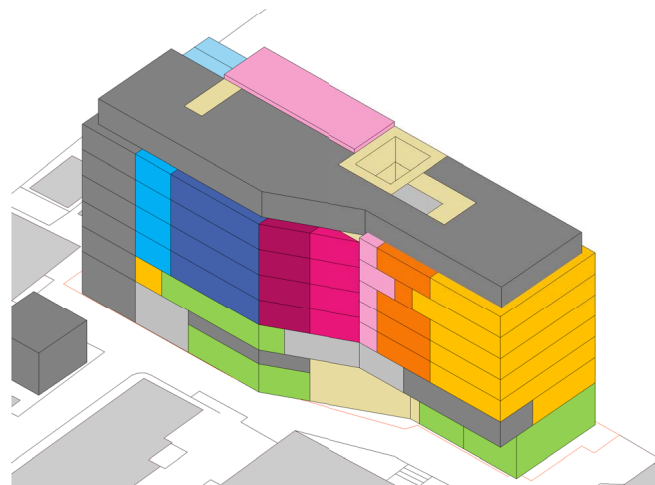
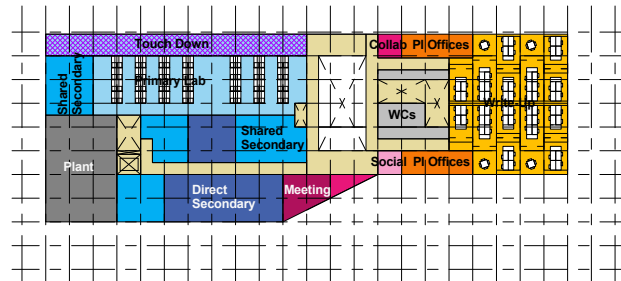
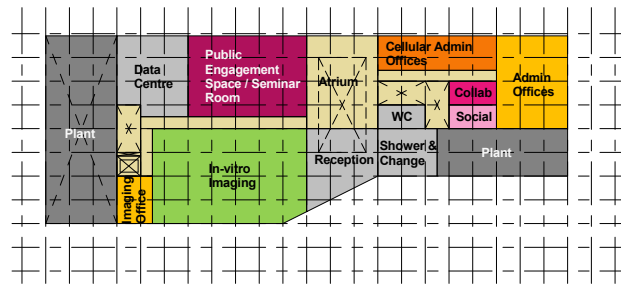
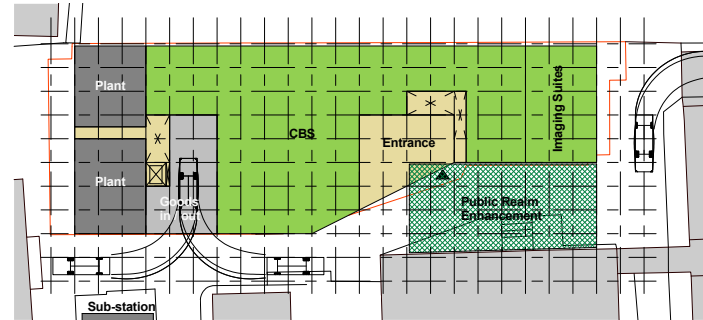
4.3 Design Approach

4.3.2 Design Development Matrix

Typical Floor Development Options

Through the latter stages of Stage 1 various design options were explored as a response to brief, user consultations and Building Working Group Discussions. A series of these studies are presented here with pros and cons of each listed below. The chosen options for further development have been highlighted.

OPTION 1A as presented on 08.09.17



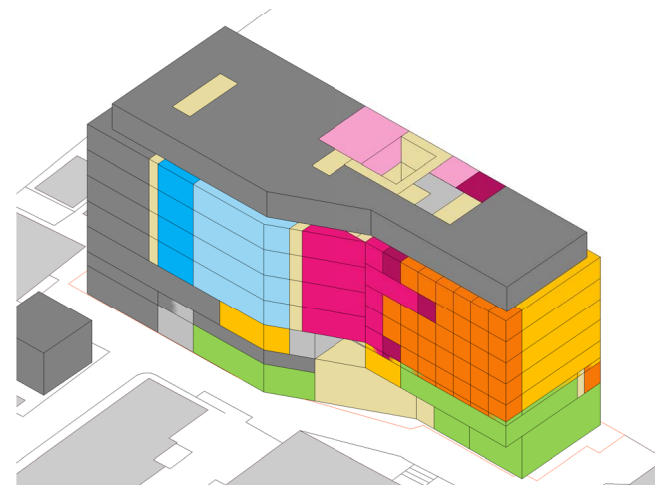
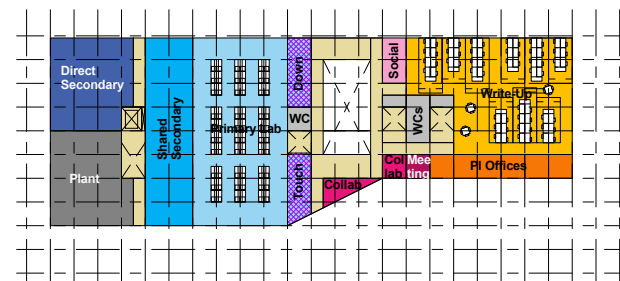
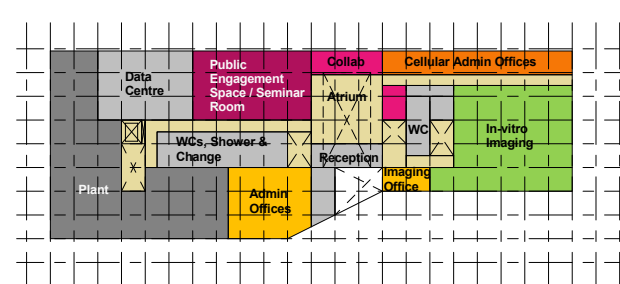
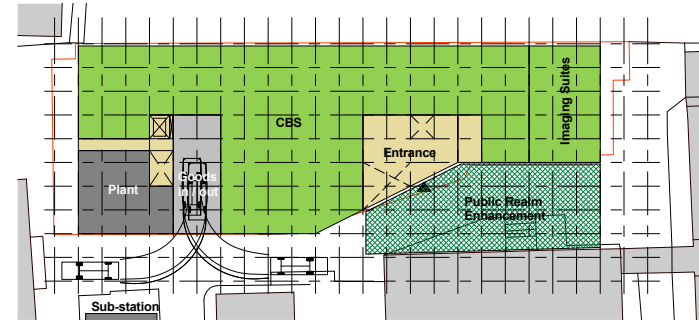
Pros:

- Opportunity for additional write-up floor with smaller floor to ceiling

Cons:

- Large travel distances between lab and write-up spaces

OPTION 1B as presented on 08.09.17



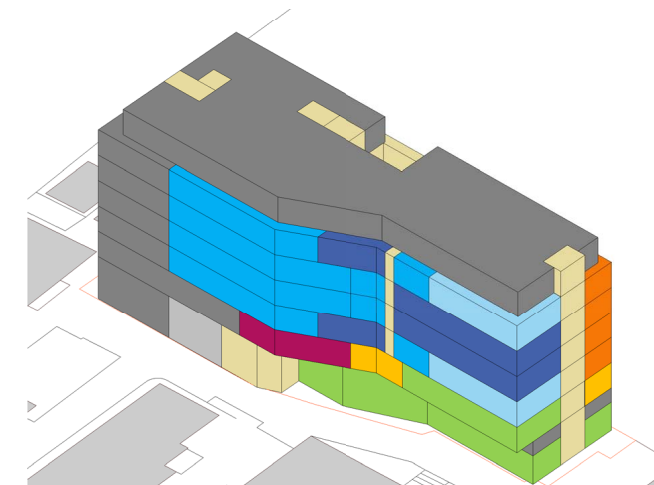
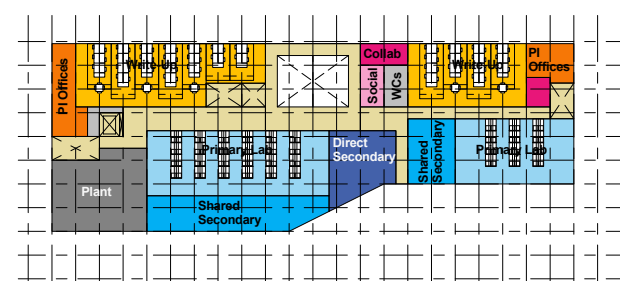
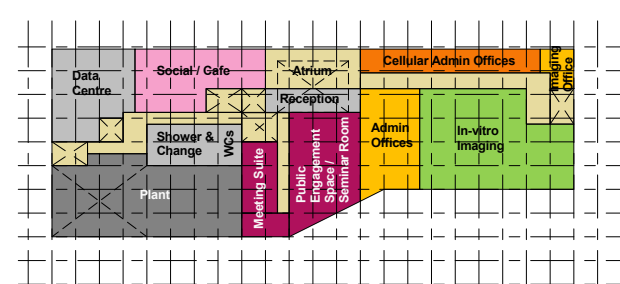
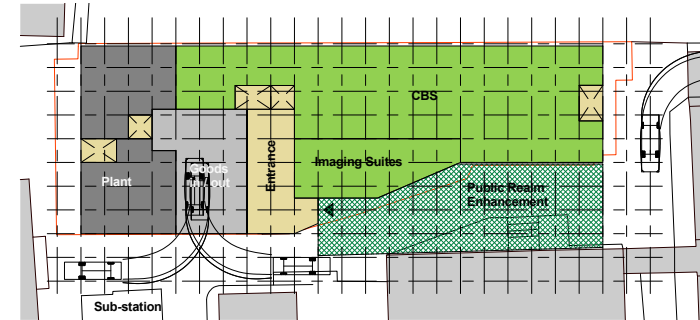
Pros:

- Collaboration corridor relieves pressure on lab to write-up distances

Cons:

- Reduced lab areas
- Reduced views for lab spaces

OPTION 2A as presented on 08.09.17



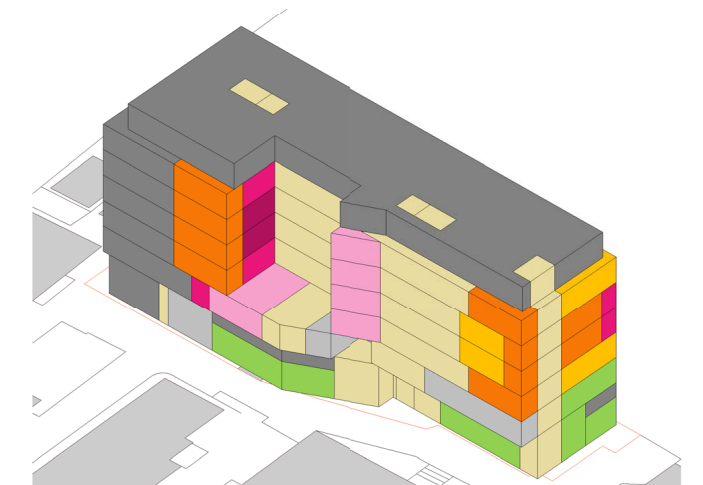
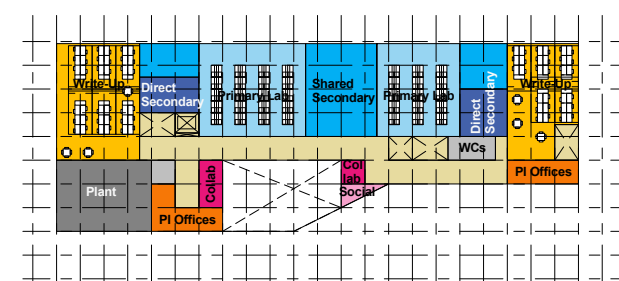
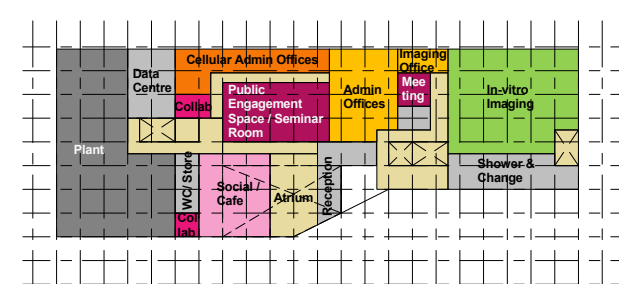
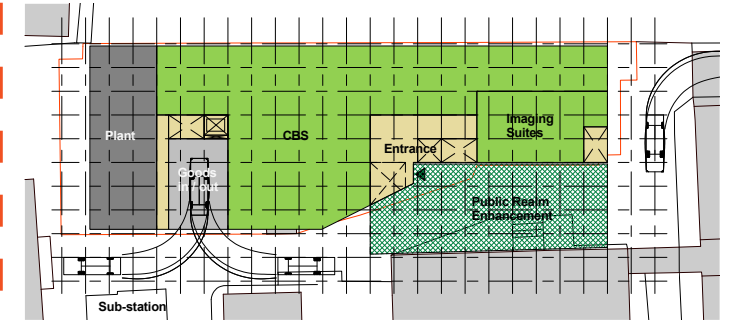
Pros:

- Clustered lab/ write-up/ PI office relationship
- Good views for Write-up

Cons:

- Complex to service across atrium void

OPTION 2B as presented on 08.09.17



Pros:

- Efficient lab with clustered relationship with adjacent functions

Cons:

- Atrium at the back of the building not maximising views/ light

4

Design Strategy

4.3

Design Approach

4.3.3

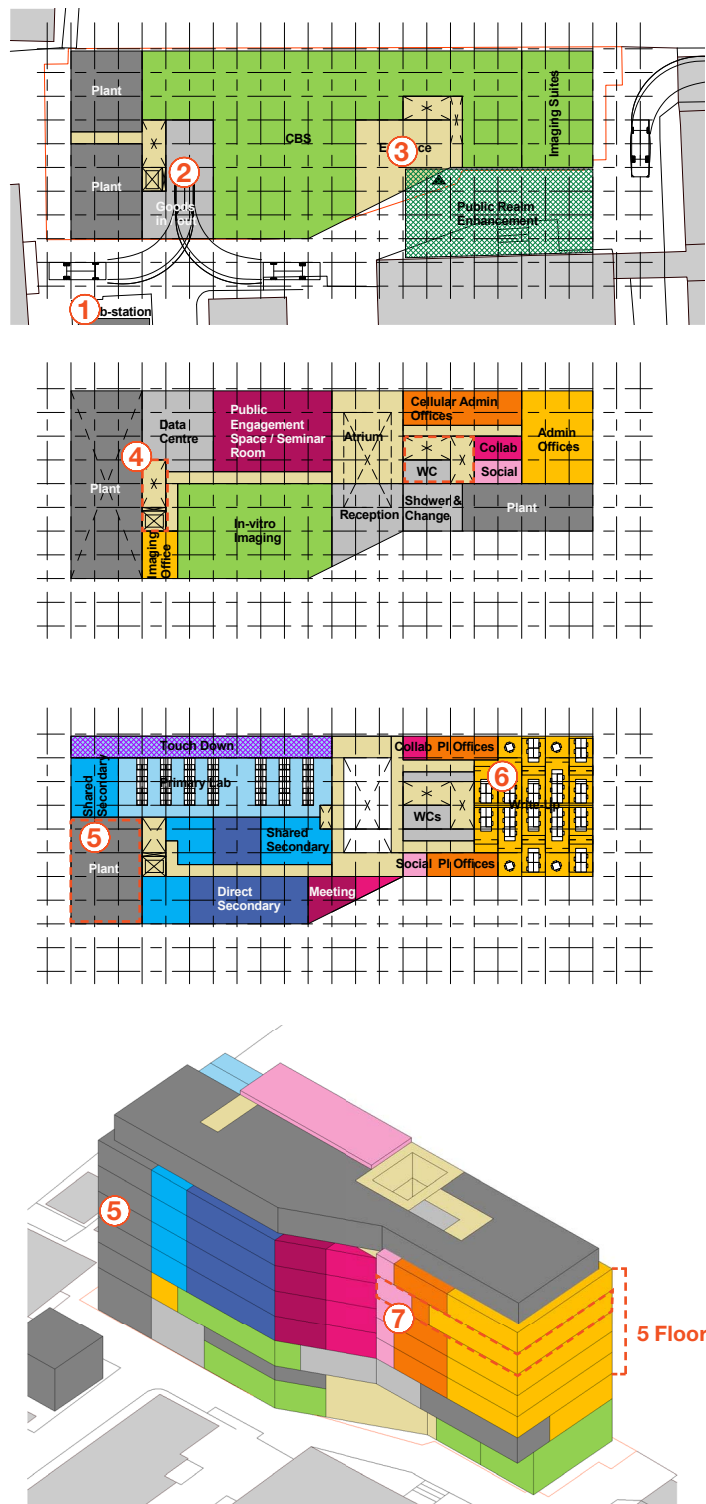
Option 01 Design Development

Option 01 Design Development

The most significant design move on Option 01 was taking out the additional floor on the write-up side of the building to ensure we remained in budget however there was also significant development throughout the building in order to achieve a mechanical engineering solution which can service the building floor by floor and to try and achieve a closer relationship between the laboratory and write-up spaces.

- 1
- Due to constraints moving the sub-station, it is assumed until further progress on this matter that the existing sub-station will be maintained within the site. The new sub-station was also moved in order to allow better access. The plant was also relocated so that it can stack with a first floor plant.
- 2
- The goods in/ out, although disrupting the usable space for the CBS facility on the ground floor was thought to not be large enough as it will also need to accommodate waste and gas stores.
- 3
- The entrance space was disruptive to the usable ground floor therefore it was moved to the part of the floor plan which is least usable on the corner.
- 4
- All of the circulation and servicing cores were developed identifying that they required larger areas.
- 5
- The on floor plant areas needed to expand in order to house the equipment needed to service the building.
- 6
- The user group identified the apparent disconnection between the laboratories and the write-up spaces therefore the write up spaces and the laboratories brought closer to the atrium.
- 7
- Due to the split between write-up and laboratory, there is allowance for an extra floor on the write-up side due to a reduced floor to floor requirement. However, the additional floor afforded by this design move is not currently allowed for within the budget therefore it was removed within the design development process.

OPTION 1A as presented on 08.09.17



Stage 01 OPTION 1

