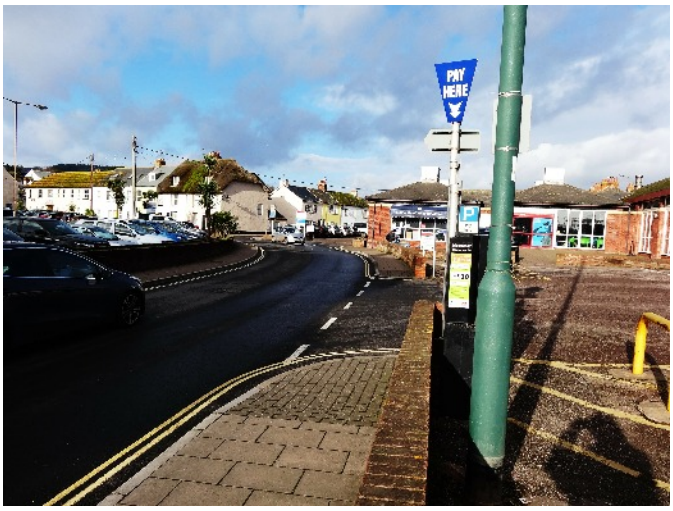
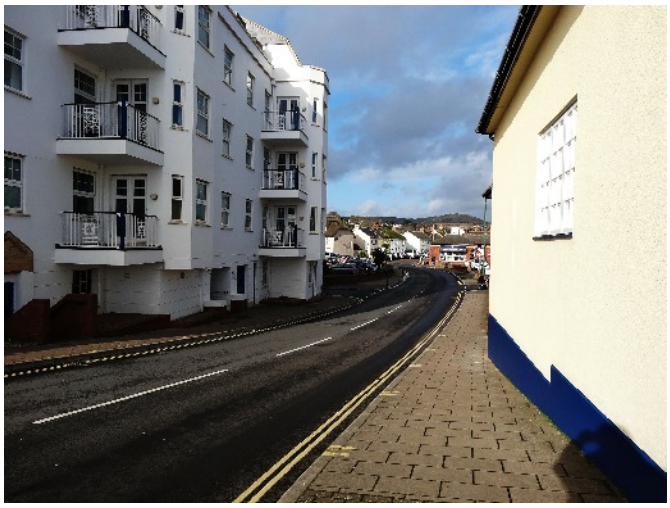
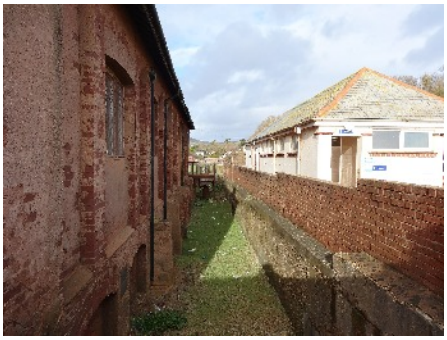
Impression of shadow cover in winter

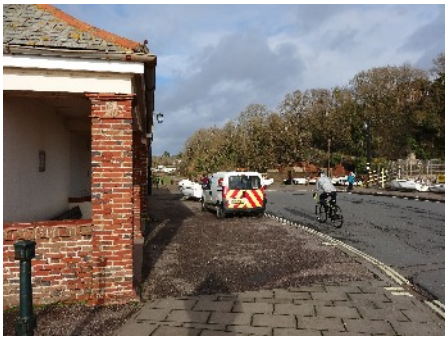
When considering height of buildings suitable for Port Royal it is important to take into account winter shadows. Shade in winter leeches heat from buildings and ground and makes ice more likely. Car parking in shade has more problems than car parking outside shade areas or under cover. The percentages of car breakdowns (refusal to start) is increased in shade.

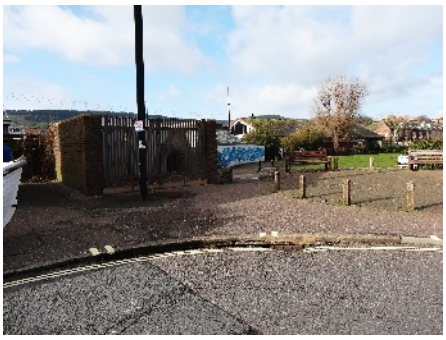
The photographs below were taken to show the **minimum** shade during winter months with the current buildings at Port Royal.

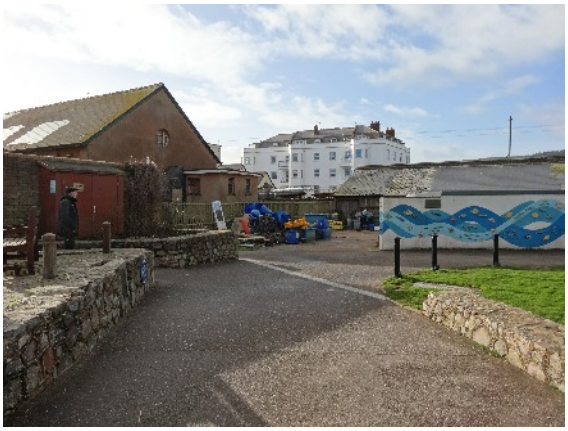


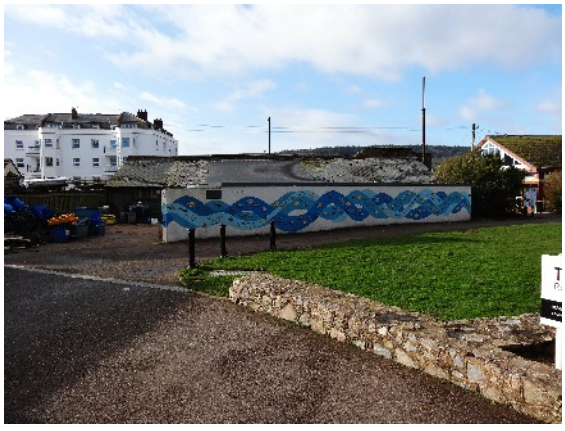






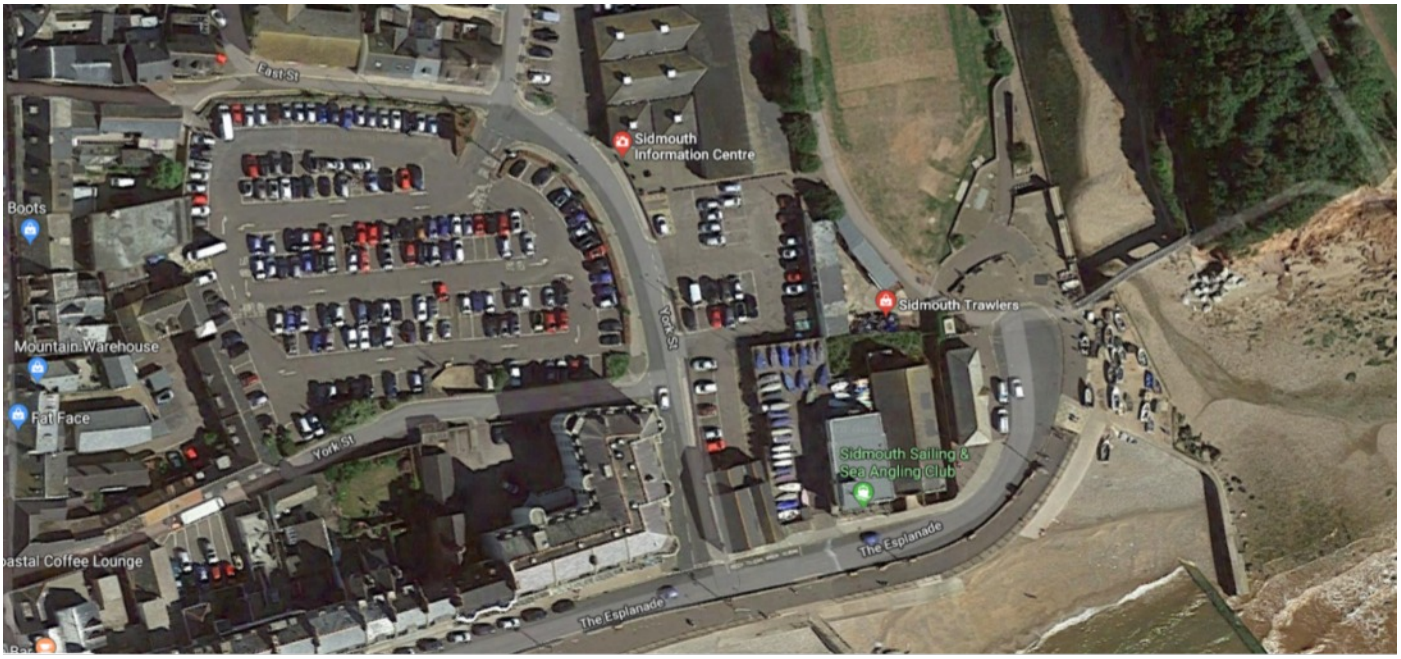




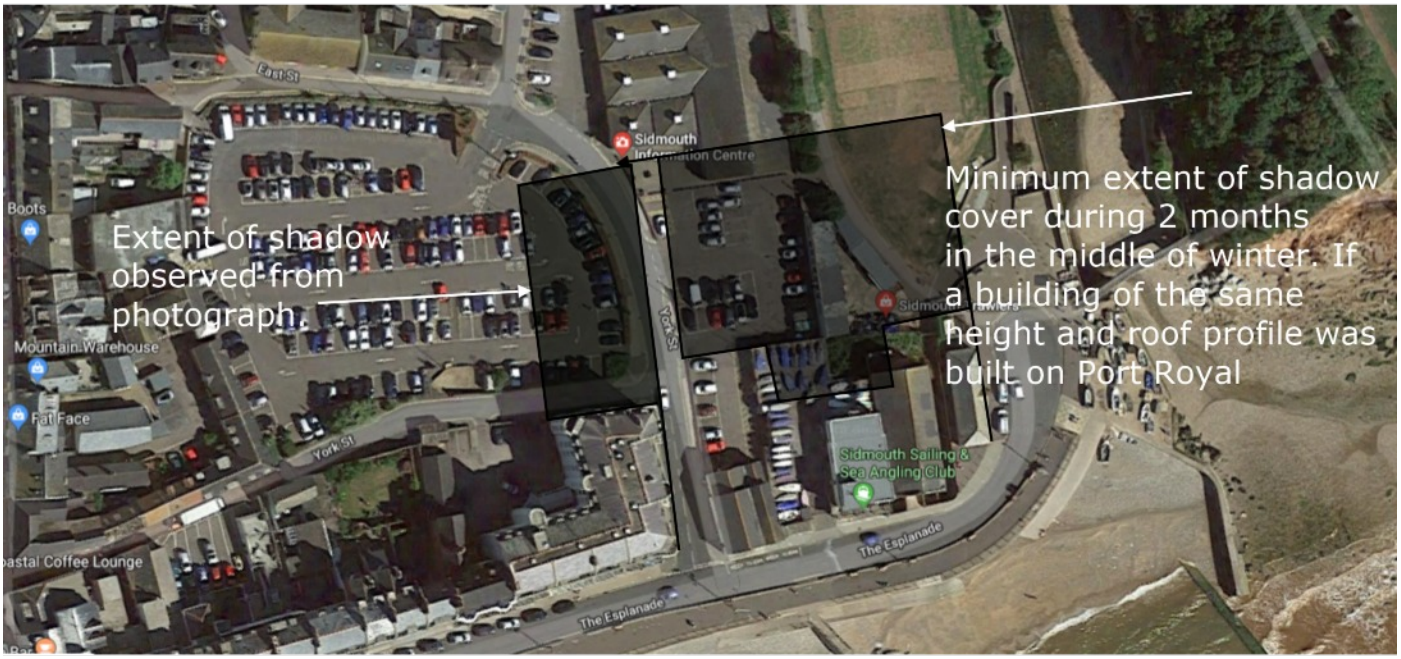


This shows that the shadow of the apex of the Drill Hall roof reaches almost as far north as the end of the fish wall.

Any building taller than the Drill Hall would
place the Fishermen’s yard in complete shade during the winter months.



This is the shadow thrown by Trinity Court in late morning, early in August.
It shows the approximate shadow produced at mid-day in the 4 weeks before and after the Summer Solstice.



From photographs taken on the 17th January at shortly after mid-day it can be seen that the **minimum** shadow produced in the 4 weeks before and after Winter Solstice reaches to the swimming pool.
If a block of the same height was placed on Port Royal the **minimum** shadow for 8 weeks of the year would be as shown above. Cover later or earlier in the day, or closer to the solstice would be much greater.

Shade is an important consideration for plant growth. Increased shade would affect the resilience of the grass cover as well as other plantings.