Appendix B. **Solar Access Study**

Shadow diagrams attached providing plan views of the 3D model showing current existing overshadowing and proposed overshadowing at hourly intervals on the winter solstice for comparison. Carpark shadow extents have been identified on the drawings.

The results are described in the table below

Winter Solstice **21 June**	**Additional Shadow** **linear m (width)**	**Additional** **Shadow** **Area m^2**	**Comments** *Note: the additional car park screen is constructed from vertical timber slats and does not cast a solid shadow.*
9am	+3.6m	+180	Additional shadow predominantly falls on residential roofs, does not affect backyards.
10am	+2.3	+137	Additional shadow predominantly falls on residential roofs, does not affect backyards.
11am	+1.8	+99	Additional shadow falls on footpath and road surface, does not affect residential properties.
12noon	+1.7	+52	Additional shadow falls on road surface, does not affect private properties.
1pm	+1.9	+60	Additional shadow falls on front part of 42-46 Short Street where large established trees already shadow this part of the property.
2pm	+2.5	+72	Additional shadow predominantly falls on roof of 42-46 Short Street.
3pm	+4	+32	No change - the ASB overshadows the carpark and adjacent properties

9am existing - ASB

[1 of 7] [June 21, 2014 - 09:00]

9am proposed

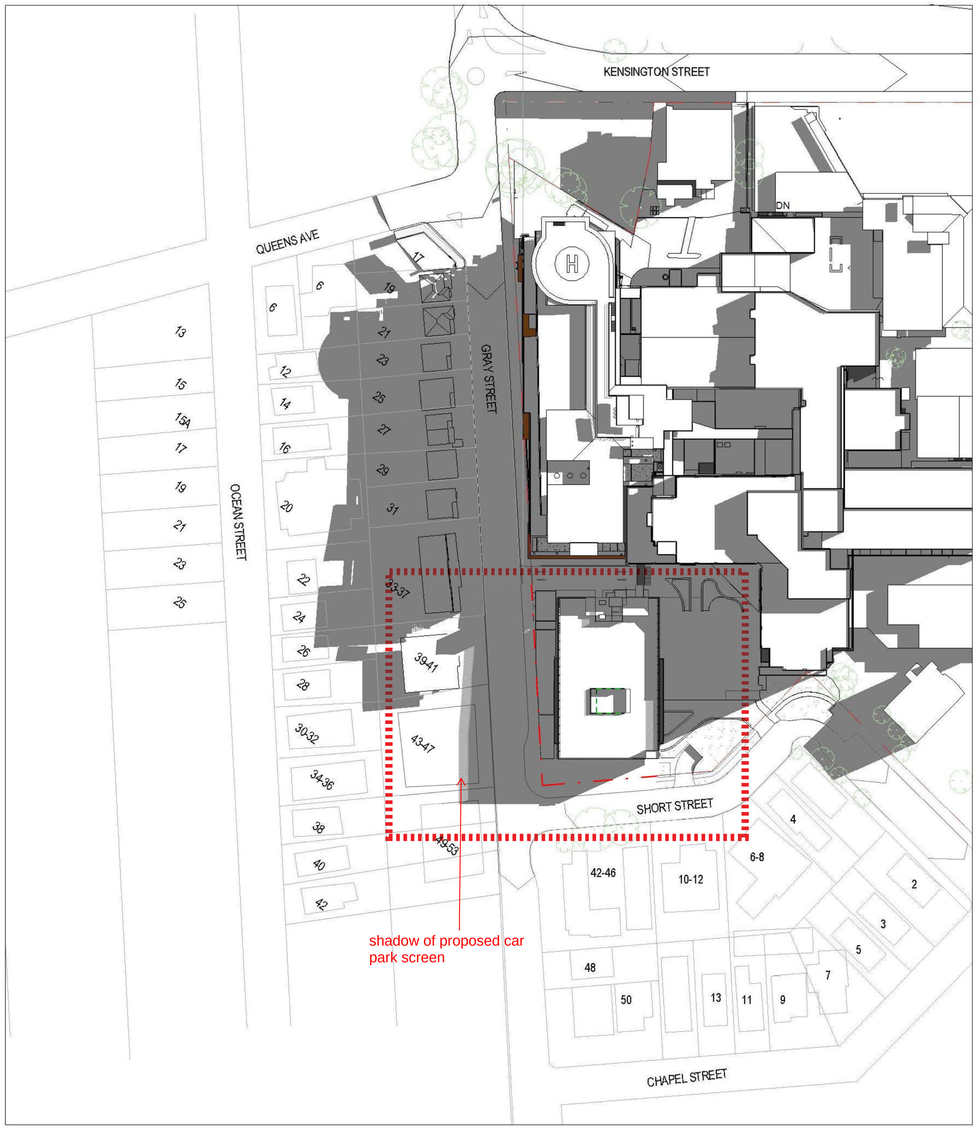
[1 of 7] [June 21, 2014 - 09:00]

10am existing - ASB

[2 of 7] [June 21, 2014 - 10:00]

10am proposed

[2 of 7] [June 21, 2014 - 10:00]



Health
South Eastern Sydney
Local Health District
NSW GOVERNMENT

JACOBS

Shadow Diagrams 21 June ASB Existing + Proposed Car Park Screen - Site Plan

ST GEORGE HOSPITAL
ACUTE SERVICES
BUILDING
REDEVELOPMENT

11am existing - ASB

[3 of 7] [June 21, 2014 - 11:00]

11am proposed

[3 of 7] [June 21, 2014 - 11:00]