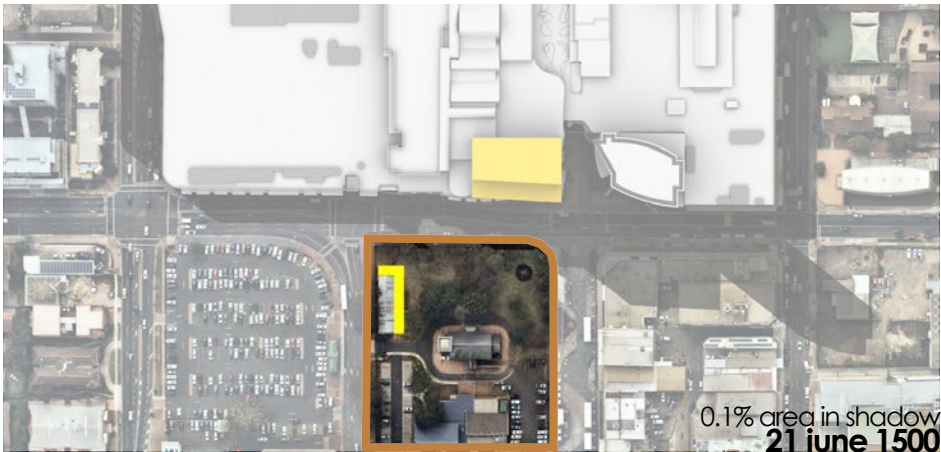
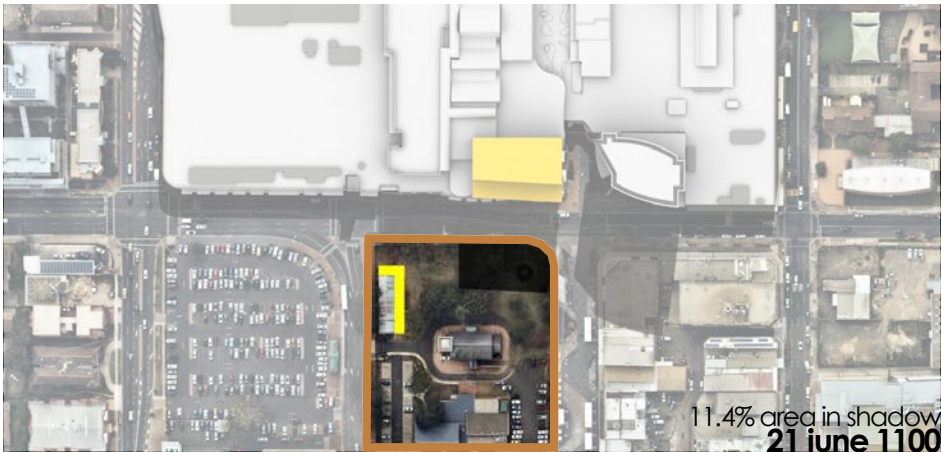
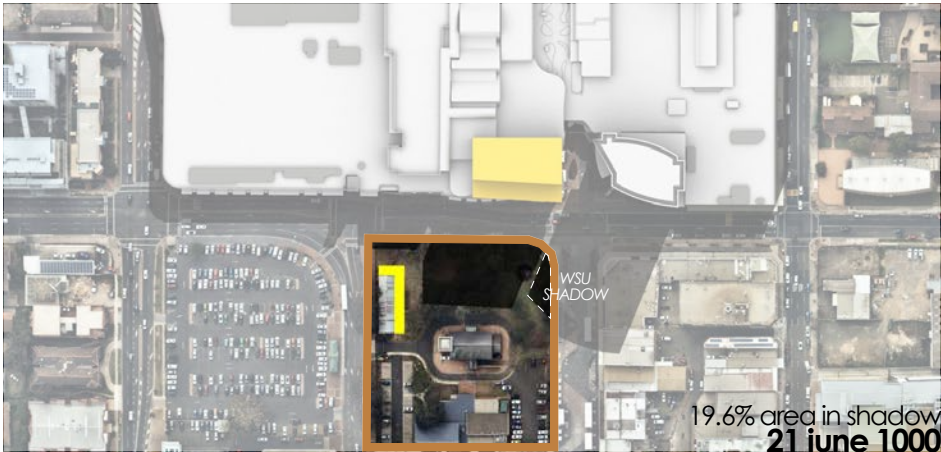


shadows cast on
st lukes church grounds
compliant scheme

Shown to the left are the shadows cast onto the St Lukes Church Grounds between 9am and 3pm on 21 June (winter equinox) by a base scheme complying with all controls.



- shadows cast by existing buildings and height compliant tower
- st lukes church grounds
- DEP proposed 5m curtilage zone around church hall

20m high street wall
COMPLIANT

LIVERPOOL CITY COUNCIL DEVELOPMENT CONTROL PLAN 2008 PART 4
DEVELOPMENT IN LIVERPOOL CITY CENTRE
-2.1 Building Form - 0m setback
-2.1 Building Form - street frontage height of 16m-26m required

45m component above street frontage length
COMPLIANT

LIVERPOOL CITY COUNCIL DEVELOPMENT CONTROL PLAN 2008 PART 4
DEVELOPMENT IN LIVERPOOL CITY CENTRE
-2.1 Building Form - maximum building length 45m

35m overall height
COMPLIANT

LIVERPOOL CITY COUNCIL LOCAL ENVIRONMENT PLAN 2008
-height of building 35m

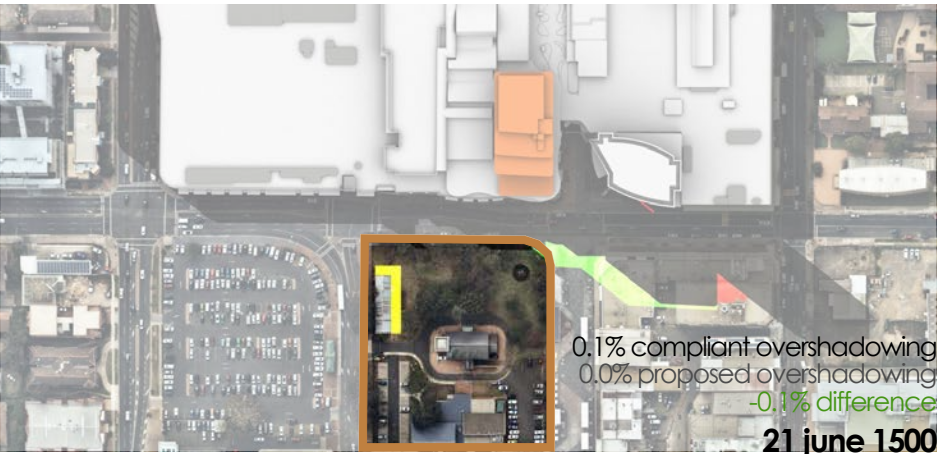
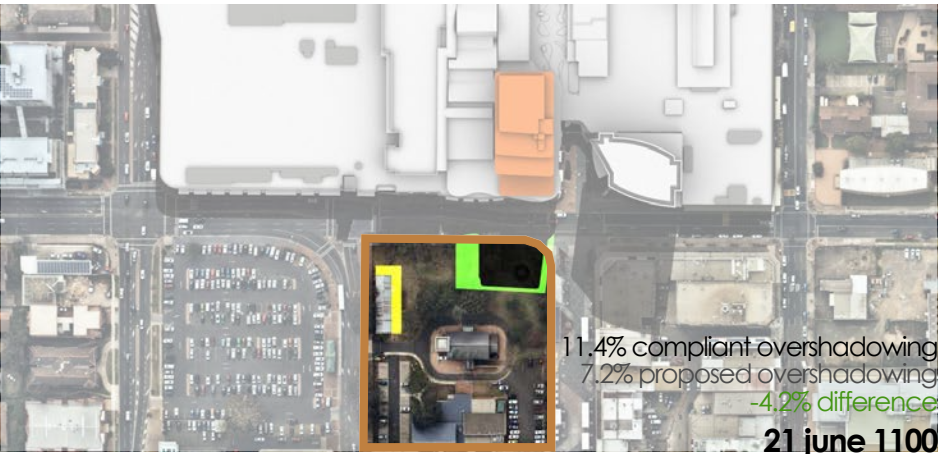
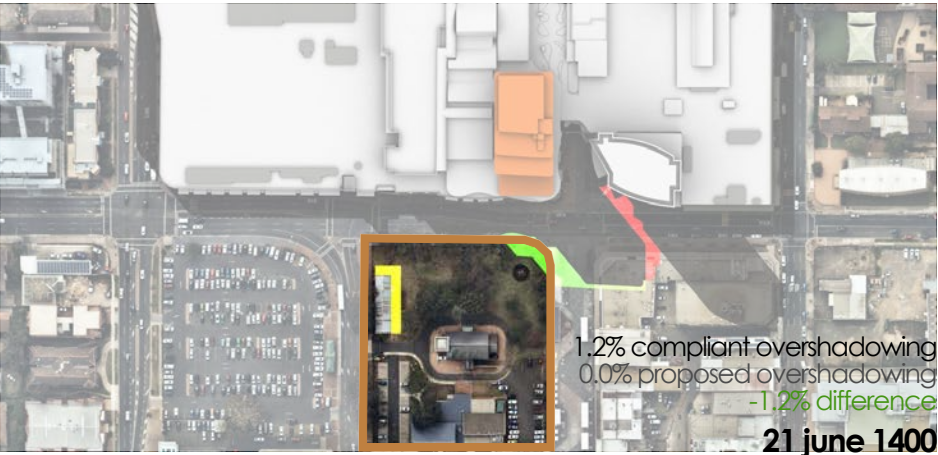
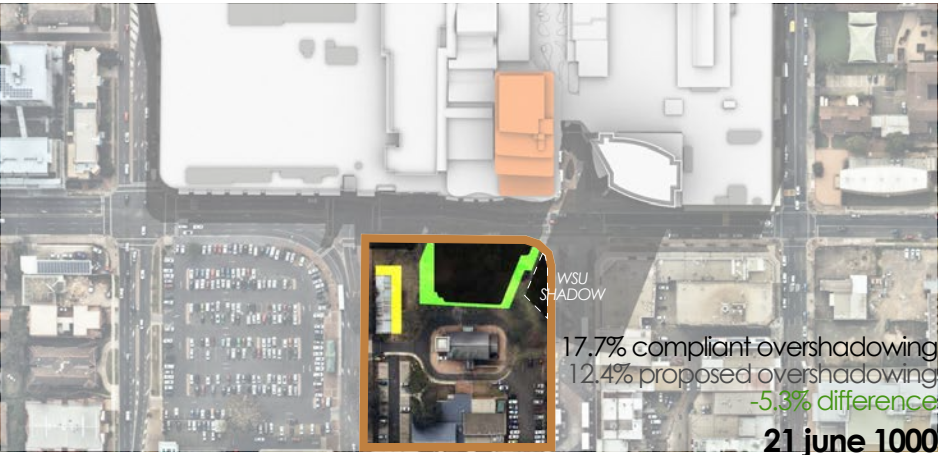
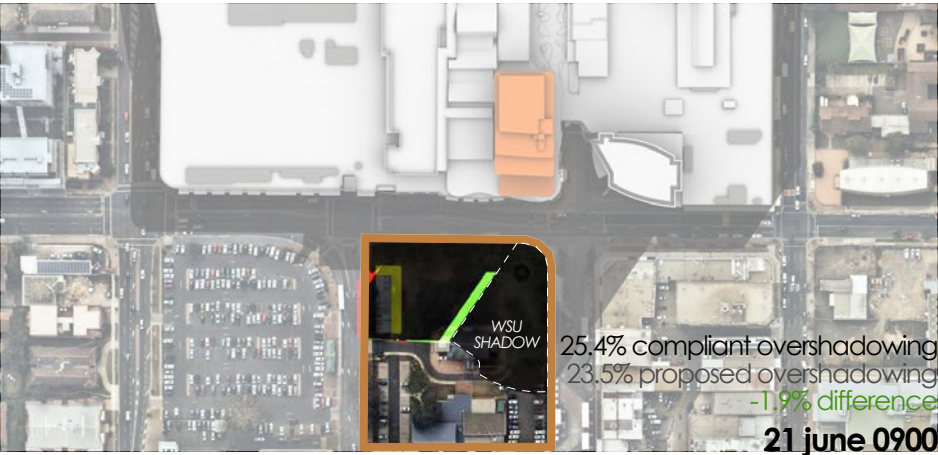
tower set back 9m from the public right of way
above 20m
COMPLIANT

LIVERPOOL CITY COUNCIL LOCAL ENVIRONMENT PLAN 2008
-7.2 Sun Access in Liverpool City Centre - Land within 9m of the public
right of way on the northern side of Elizabeth Drive, opposite St Luke's
Church Grounds between Northumberland and Macquarie Street
max height 20m



shadows cast on
st lukes church grounds
proposed scheme comparison

Shown to the left is a comparison of the shadows cast onto the St Lukes Church Grounds between 9am and 3pm on 21 June (winter equinox) between the proposed scheme and a compliant scheme. The red shows additional shadow caused by the proposed scheme while the green shows sunlight gained from the proposed scheme.



- shadows cast by proposed scheme and compliant scheme
- shadows cast by proposed scheme only
- shadows cast by compliant scheme only
- st lukes church grounds
- DEP proposed 5m curtilage zone around church hall



22.1m high street wall
COMPLIANT

LIVERPOOL CITY COUNCIL DEVELOPMENT CONTROL PLAN 2008 PART 4
DEVELOPMENT IN LIVERPOOL CITY CENTRE
-2.1 Building Form - 0m setback
-2.1 Building Form - street frontage height of 16m-26m required

29.6m component above street frontage length
COMPLIANT

LIVERPOOL CITY COUNCIL DEVELOPMENT CONTROL PLAN 2008 PART 4
DEVELOPMENT IN LIVERPOOL CITY CENTRE
-2.1 Building Form - maximum building length 45m

45m overall height to top of plant
NON-COMPLIANT

LIVERPOOL CITY COUNCIL LOCAL ENVIRONMENT PLAN 2008
-height of building 35m

tower set back 11m from the public right of way
above 17.3m
COMPLIANT

LIVERPOOL CITY COUNCIL LOCAL ENVIRONMENT PLAN 2008
-7.2 Sun Access in Liverpool City Centre - Land within 9m of the public right
of way on the northern side of Elizabeth Drive, opposite St Luke's Church
Grounds between Northumberland and Macquarie Street max height 20m

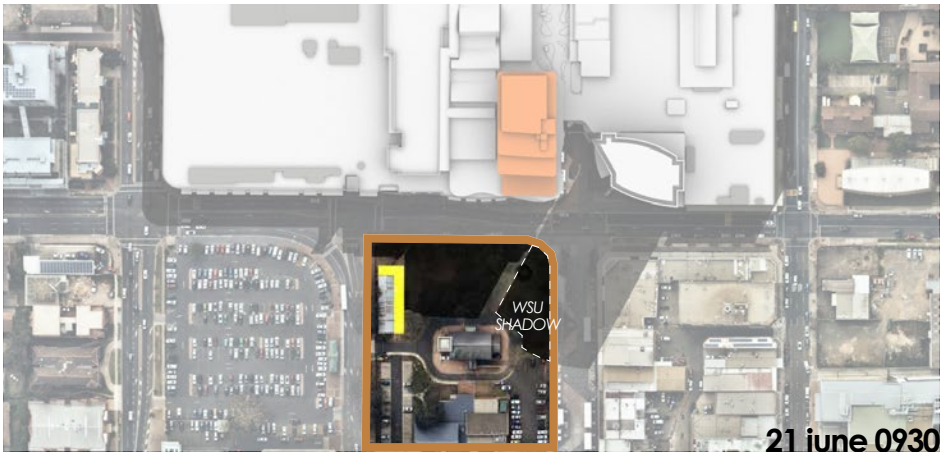
sum overshadowing difference
-19.2%

proportion of st lukes church ground in shadow

	<i>compliant scheme</i>	PREVIOUS SCHEME 10,015 ² NLA		PROPOSED 9,038m ² , NLA	
21 june 0900	25.4%	30.9%	+5.5	23.5%	-1.9
21 june 1000	17.7%	22.1%	+2.5	12.4%	-5.3
21 june 1100	11.4%	12.6%	+1.2	7.2%	-4.2
21 june 1200	6.7%	6.6%	-0.1	3.3%	-3.3
21 june 1300	3.9%	1.2%	-2.7	0.6%	-3.3
21 june 1400	1.2%	0.0%	-1.2	0.0%	-1.2
21 june 1500	0.1%	0.0%	-0.1	0.0%	-0.1
SUM DIFFERENCE			+5.1		-19.2
AVERAGE	9.5%	10.5%		6.7%	

shadows cast on
st lukes church grounds

Shown to the left is a comparison of the shadows cast onto the St Lukes Church Grounds from 9am in 5 minute increments until the 5m curtilage zone is cleared.



- shadows cast by proposed scheme and compliant scheme
- st lukes church grounds
- DEP proposed 5m curtilage zone around church hall

22.1m high street wall
COMPLIANT

LIVERPOOL CITY COUNCIL DEVELOPMENT CONTROL PLAN 2008 PART 4
DEVELOPMENT IN LIVERPOOL CITY CENTRE
-2.1 Building Form - 0m setback
-2.1 Building Form - street frontage height of 16m-26m required

29.6m component above street frontage length
COMPLIANT

LIVERPOOL CITY COUNCIL DEVELOPMENT CONTROL PLAN 2008 PART 4
DEVELOPMENT IN LIVERPOOL CITY CENTRE
-2.1 Building Form - maximum building length 45m

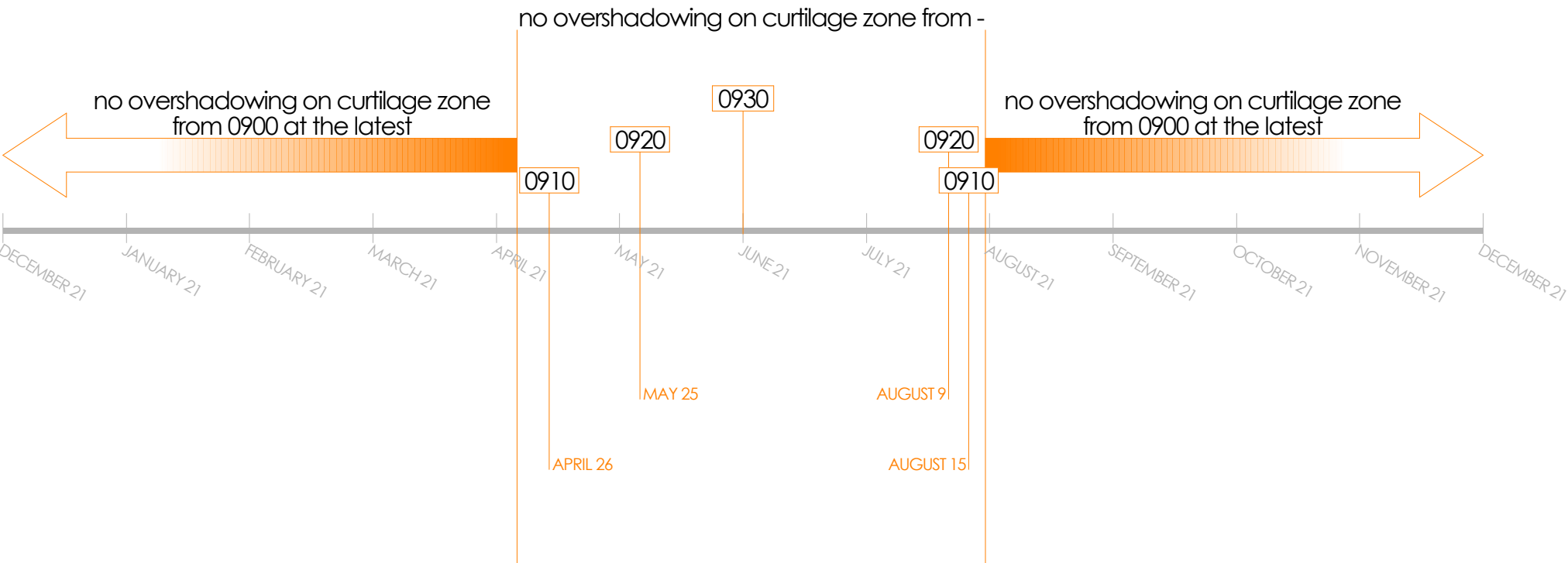
45m overall height to top of plant
NON-COMPLIANT

LIVERPOOL CITY COUNCIL LOCAL ENVIRONMENT PLAN 2008
-height of building 35m

tower set back 11m from the public right of way
above 17.3m
COMPLIANT

LIVERPOOL CITY COUNCIL LOCAL ENVIRONMENT PLAN 2008
-7.2 Sun Access in Liverpool City Centre - Land within 9m of the public right of way on the northern side of Elizabeth Drive, opposite St Luke's Church Grounds between Northumberland and Macquarie Street max height 20m

shadows cast on
st lukes church grounds



- shadows cast by proposed scheme and compliant scheme
- st lukes church grounds
- DEP proposed 5m curtilage zone around church hall

22.1m high street wall
COMPLIANT

LIVERPOOL CITY COUNCIL DEVELOPMENT CONTROL PLAN 2008 PART 4
DEVELOPMENT IN LIVERPOOL CITY CENTRE
-2.1 Building Form - 0m setback
-2.1 Building Form - street frontage height of 16m-26m required

29.6m component above street frontage length
COMPLIANT

LIVERPOOL CITY COUNCIL DEVELOPMENT CONTROL PLAN 2008 PART 4
DEVELOPMENT IN LIVERPOOL CITY CENTRE
-2.1 Building Form - maximum building length 45m

45m overall height to top of plant
NON-COMPLIANT

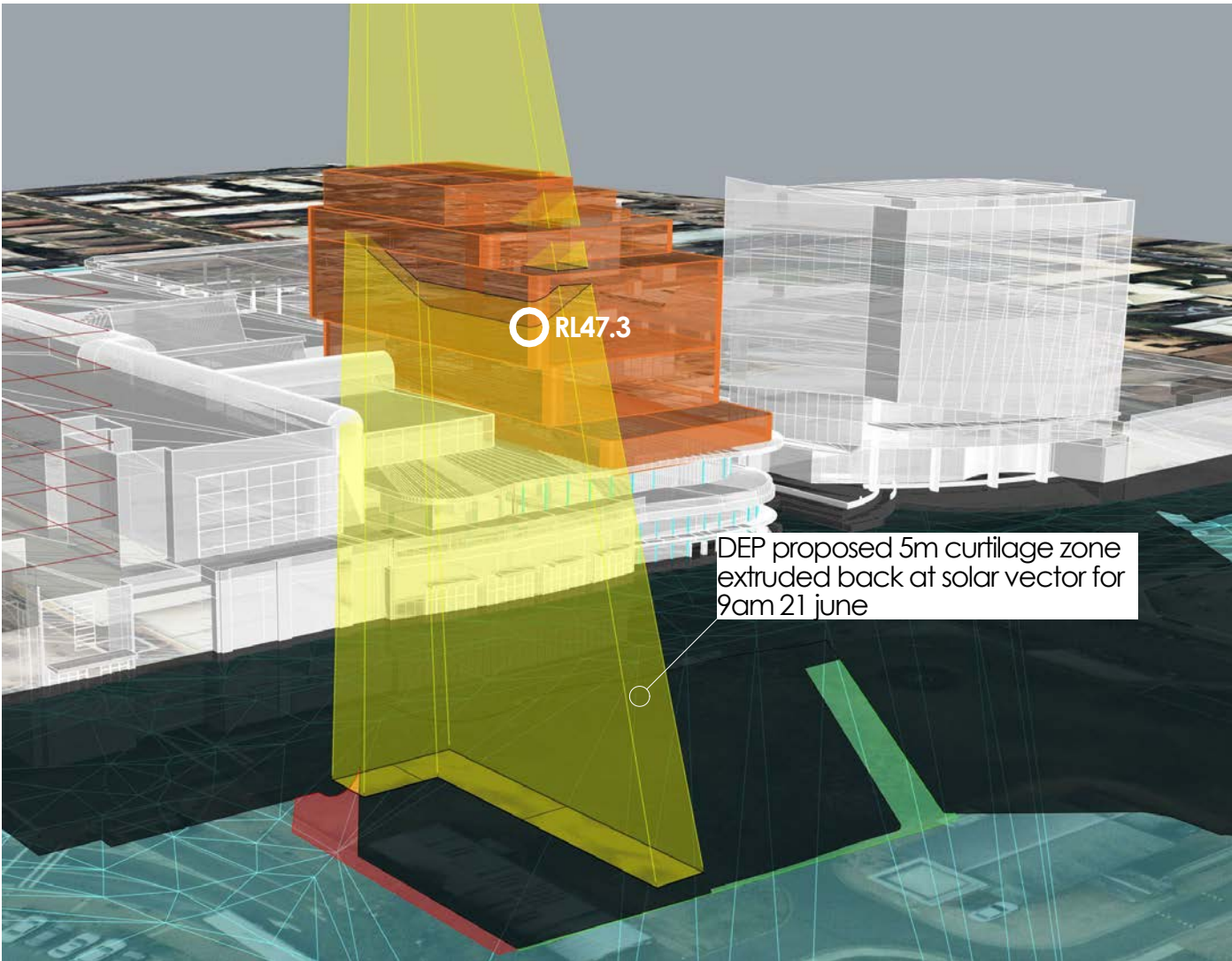
LIVERPOOL CITY COUNCIL LOCAL ENVIRONMENT PLAN 2008
-height of building 35m

tower set back 11m from the public right of way
above 17.3m
COMPLIANT

LIVERPOOL CITY COUNCIL LOCAL ENVIRONMENT PLAN 2008
-7.2 Sun Access in Liverpool City Centre - Land within 9m of the public right
of way on the northern side of Elizabeth Drive, opposite St Luke's Church
Grounds between Northumberland and Macquarie Street max height 20m

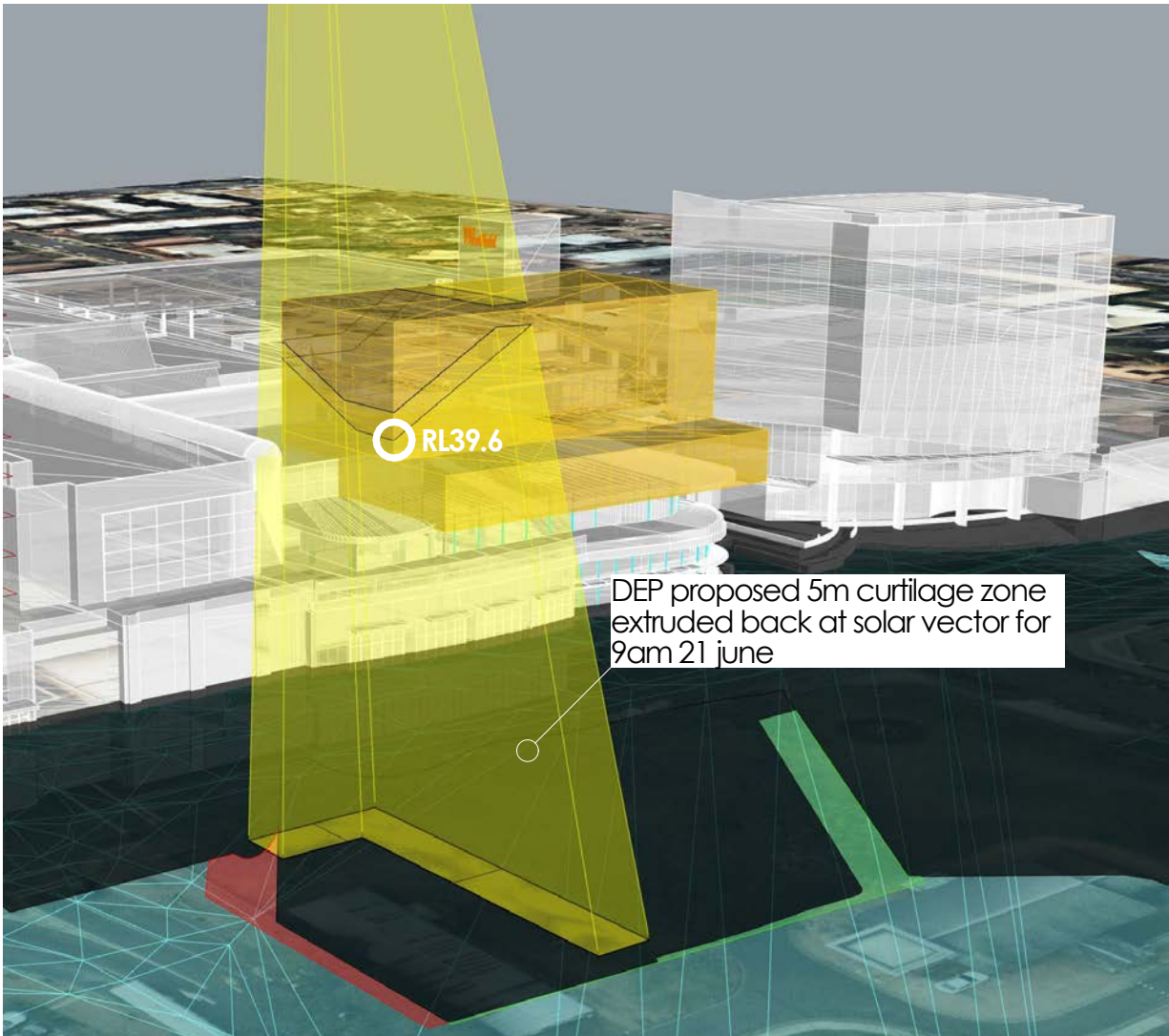


PROPOSED

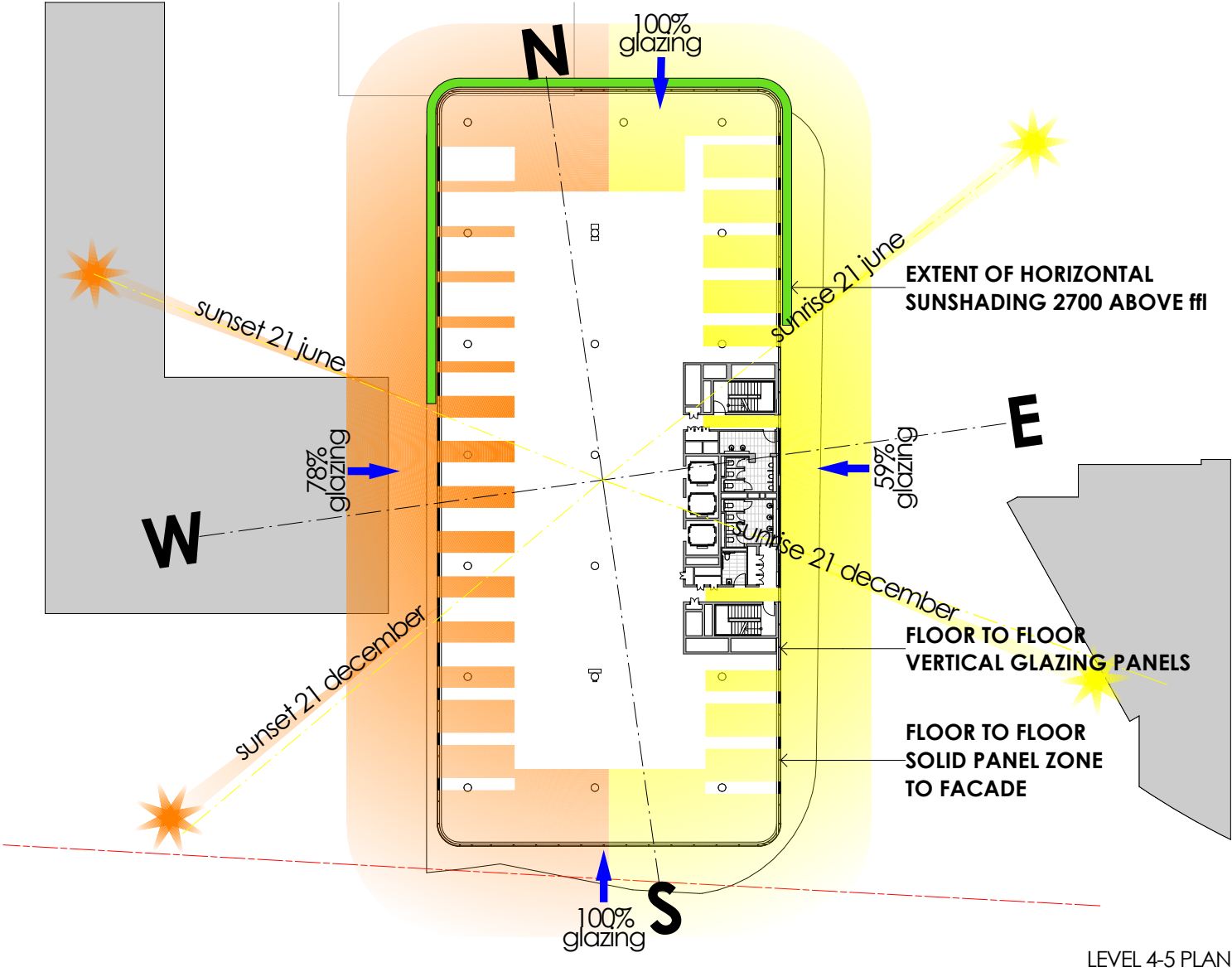


approximate loss of NLA **3,000 m²**

COMPLIANT DEVELOPMENT



approximate loss of NLA **2,500 m²**



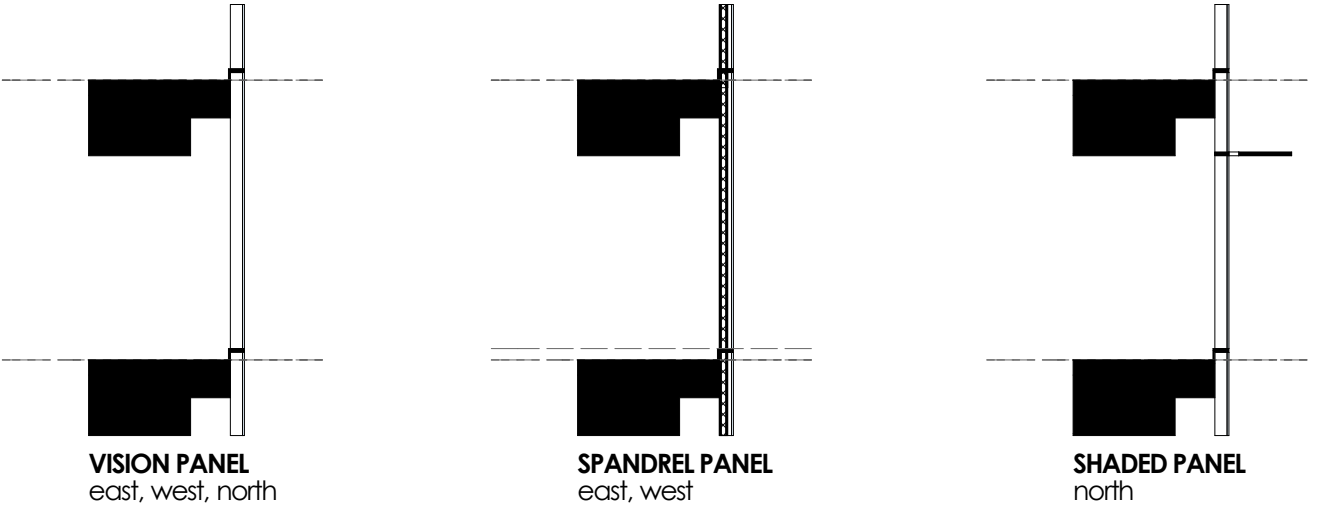
north facade 100% glazing
south facade 100% glazing
east facade 59% glazing
west facade 78% glazing

TOTAL 78% GLAZING

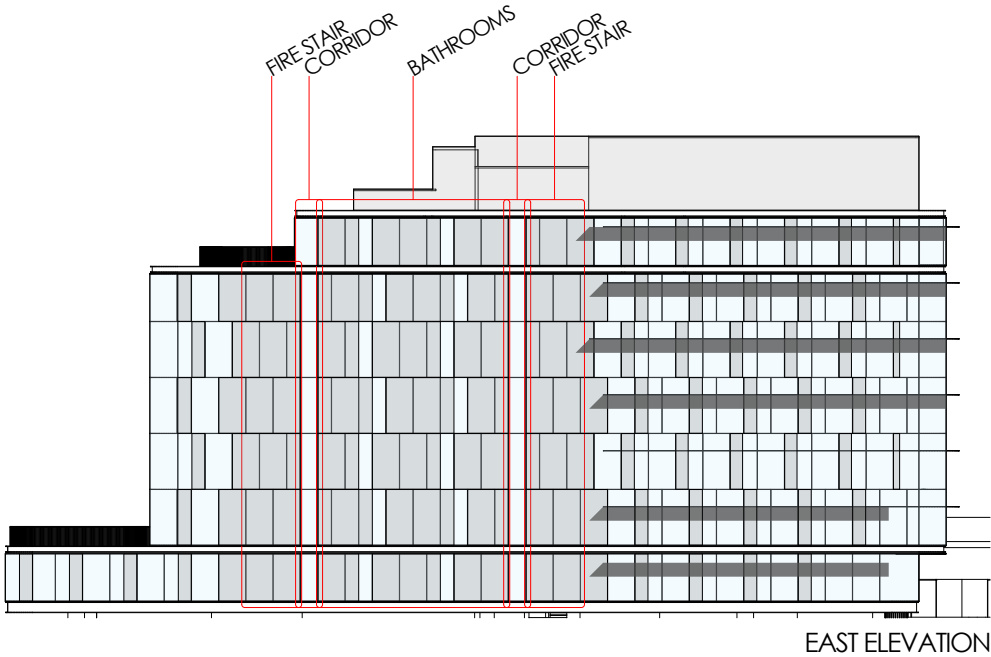
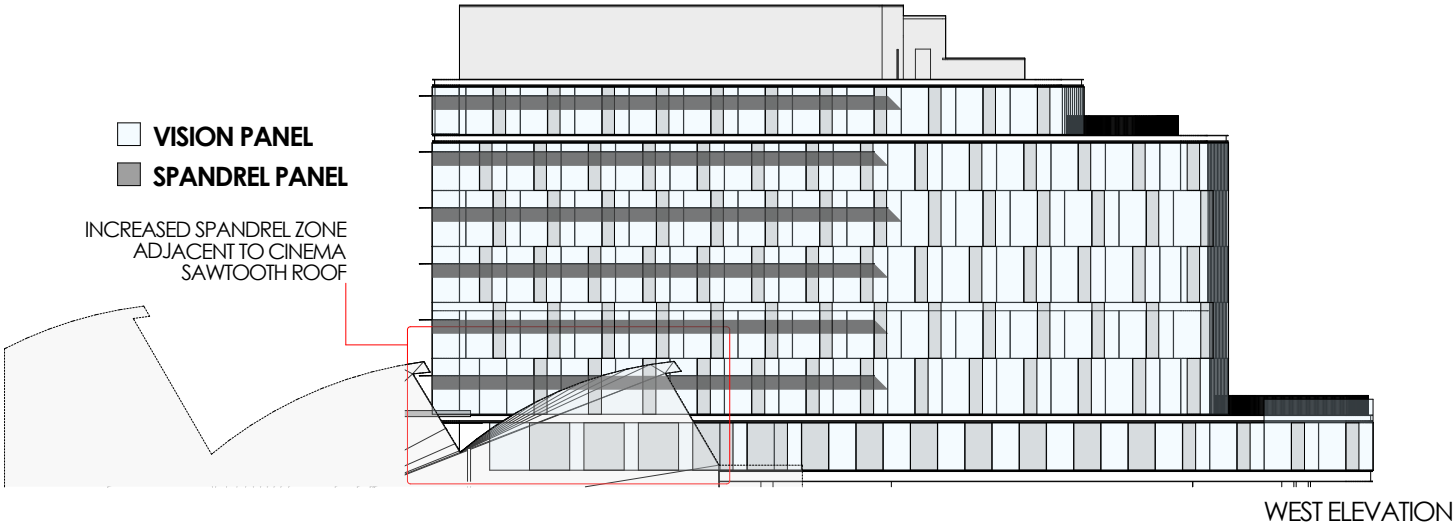
note: current design has no horizontal spandrel

EAST/WEST ONLY 69% GLAZING

note: current design has no horizontal spandrel



FACADE SCHEMATIC SECTIONS



PROJECT NORTH



SCALE @ A3
1:500, 1:100

50mm ON ORIGINAL

DRAWING
FACADE SHADING
STRATEGY

PRINT DATE
17/07/2019

PREPARED BY
fitzpatrick+partners
FOR
SCENTRE GROUP