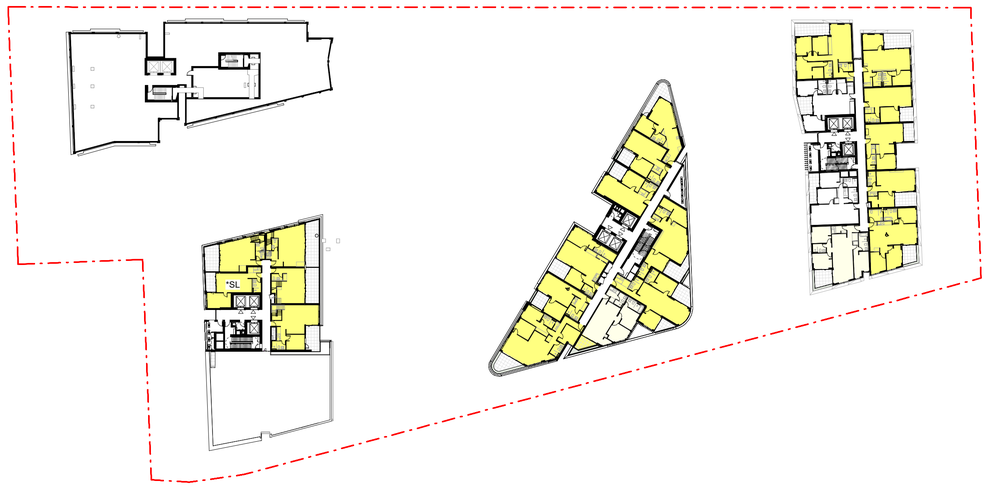
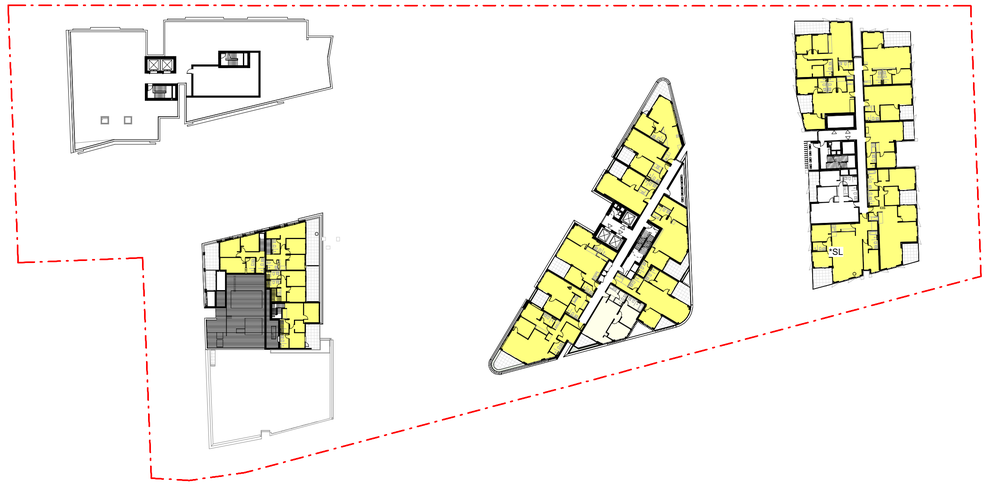
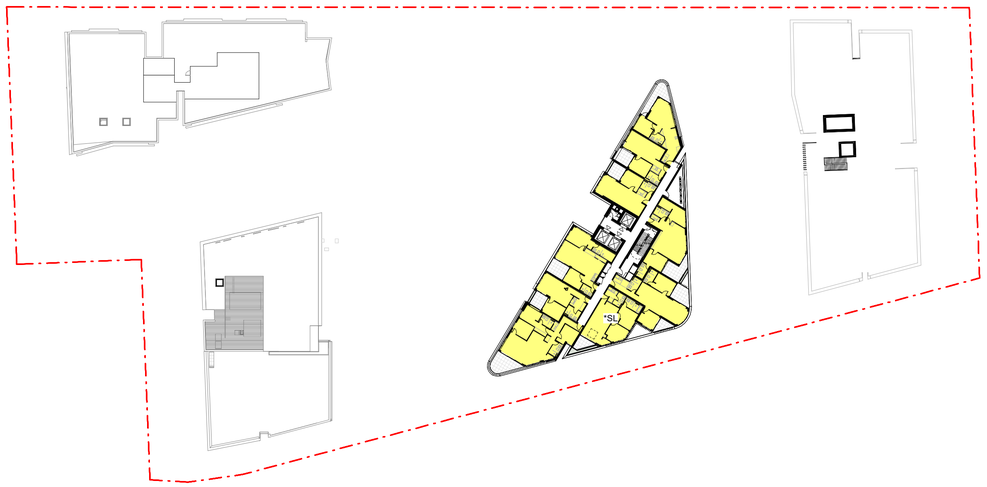


1 SOLAR COMPLIANCE - LEVEL 19
1 : 600



2 SOLAR COMPLIANCE - LEVEL 20
1 : 600



3 SOLAR COMPLIANCE - LEVEL 21
1 : 600

SOLAR AND DAYLIGHT ACCESS

ADG DESIGN CRITERIA
4A-1 1. LIVING ROOMS AND PRIVATE OPEN SPACES OF AT LEAST 70% OF APARTMENTS IN A BUILDING RECEIVE A MIN OF 2 HOURS DIRECT SUNLIGHT BETWEEN 9AM - 3 PM AT MID WINTER
MIN 2 HOURS DIRECT SOLAR ACCESS
TOTAL NO. OF APARTMENT : 744
ADG REQUIREMENT FOR SOLAR ACCESS : (70%)
PROPOSED SOLAR ACCESS : 523 (70%)

LEVEL	≥ 2 HRS	0<x< 2 HRS	0 HRS	TOTAL UNITS
LEVEL 19	16	4	3	23
LEVEL 20	15	1	1	17
LEVEL 21	9	0	0	9
TOTAL	40	5	4	49

TOTAL (UG - L21)	523	114	107	744

≥ 2 HRS
0<x< 2 HRS

ADG REQUIREMENT FOR NO DIRECT SUNLIGHT:
MAX 15% OF TOTAL NUMBER OF UNIT = 112 UNITS
PROPOSED NO DIRECT SUNLIGHT:
14.50% OF TOTAL NUMBER OF UNIT = 107 UNITS

North Point

Amendments

Issue	Description	Date
-	ISSUED FOR GANSW 03	24/03/2021
1	ISSUED FOR INFORMATION	25/05/2021
A	ISSUED FOR DA	28/05/2021
B	ISSUED FOR DA	22/12/2021

Amendments

Issue	Description	Date

Consultant
Structural Engineer / Civil
Level 6, 73 Miller Street, North Sydney
NSW 2060
TTW

Consultant
Mechanical / Acoustic / Fire Engineer
Level 6, Building B, 207 Pacific Highway
St Leonards NSW 2065
STANTEC

Consultant
Hydraulics
Level 23, 101 Miller Street, North Sydney,
NSW 2060
JHA

Client
Billbergia Group Pty Ltd
Suite 101, 25 Angas St,
Meadowbank, NSW, 2114

Billbergia
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Level 7, 80 William St East Sydney NSW
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www.groupgsa.com

T +612 9361 4144 F +612 9332 3458

architecture interior design urban design landscape
nom architect Lisa-Maree Carrigan 7568

Project Title
Eden Street Arncliffe

Drawing Title
SOLAR COMPLIANCE

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22/12/2021 12:03:58 PM

Plotted and checked by PDS

Verified PDS Approved LMC

Drawing Created (date) 02/03/21 Drawing Created (by) JK, SM, AR, EC, AF

Scale	Project No	Drawing No	Issue
As indicated	180319	DA 4453	B

SOLAR COMPLIANCE SCHEDULE -TOWER A LV UG-3			
ROOM NO	START HOUR	END HOUR	DIRECT SUNTIME (HOURS)
1AB - UPPER GROUND			
A001	1400	1500	1.00
A002	1330	1530	2.00
A003	1330	1530	2.00
A004	1330	1530	2.00
A005	900	1400	5.00
A006	900	1230	3.30
AB - LEVEL 1			
A101	1230	1500	2.30
A102	1100	1500	4.00
A103	900	1430	5.30
A104	900	1230	3.30
A105	900	1330	4.30
A106	900	1430	5.30
A107	900	930	0.30
A108			
A109	1315	1515	2.00
AB - LEVEL 2			
A201	1230	1500	2.30
A202	1100	1500	4.00
A203	900	1500	6.00
A204	900	1300	4.00
A205	900	1330	4.30
A206	900	1430	5.30
A207	900	930	0.30
A208			
A209	1300	1500	2.00
AB - LEVEL 3			
A301	1315	1515	2.00
A302	1200	1500	3.00
A303	900	1500	6.00
A304	900	1300	4.00
A305	900	1330	4.30
A306	900	1430	5.30
A307	900	930	0.30
A308			
A309	1315	1515	2.00

SOLAR AND DAYLIGHT ACCESS

MIN 2 HOURS DIRECT SOLAR ACCESS

ADG DESIGN CRITERIA
4A-1 1. LIVING ROOMS AND PRIVATE OPEN SPACES OF AT LEAST 70% OF APARTMENTS IN A BUILDING RECEIVE A MIN OF 2 HOURS DIRECT SUNLIGHT BETWEEN 9AM - 3 PM AT MID WINTER

TOTAL NO. OF APARTMENT : 744
ADG REQUIREMENT FOR SOLAR ACCESS : (70%)

PROPOSED SOLAR ACCESS : 524 (70%)

COMPLIANT

NO DIRECT SUNLIGHT

ADG REQUIREMENT FOR NO DIRECT SUNLIGHT:
MAX 15% OF TOTAL NUMBER OF UNIT = 112 UNITS

PROPOSED NO DIRECT SUNLIGHT:
14.50% OF TOTAL NUMBER OF UNIT = 108 UNITS

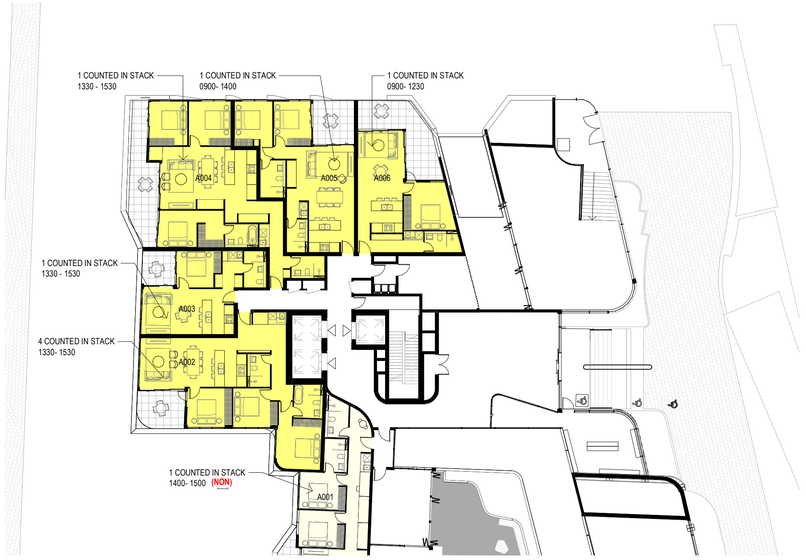
COMPLIANT

≥ 2 HRS

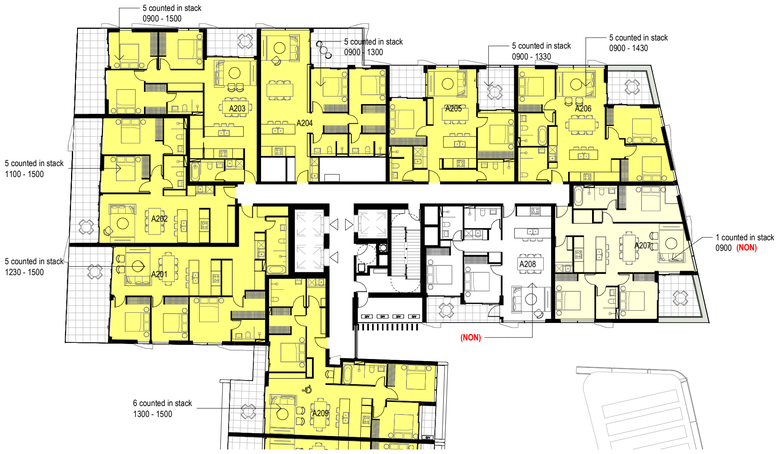
0<x< 2 HRS

TOWER A TOTAL NO. OF APARTMENT : 186
ADG REQUIREMENT FOR SOLAR ACCESS : (70%)

PROPOSED SOLAR ACCESS : 132 (71%)



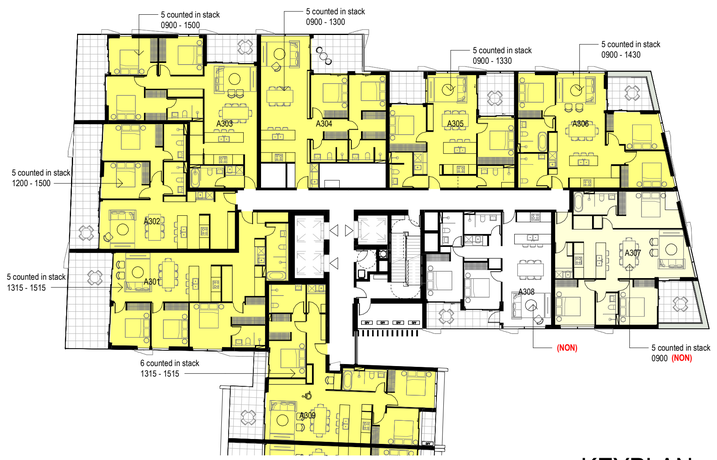
1 TOWER A - UPPER GROUND
1 : 250



3 TOWER A - LEVEL 2
1 : 250

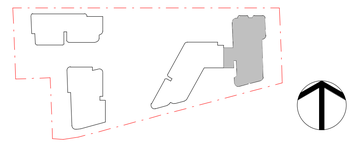


2 TOWER A - LEVEL 1
1 : 250



4 TOWER A - LEVEL 3
1 : 250

KEYPLAN



DA SUBMISSION

22/12/2021 12:04:35 PM

Amendments

Issue	Description	Date
-	ISSUED FOR GANSW 03	24/03/2021
1	ISSUED FOR INFORMATION	25/05/2021
A	ISSUED FOR REVIEW	08/11/2021
B	ISSUED FOR DA	22/12/2021

Amendments

Issue	Description	Date

Consultant
Structural Engineer / Civil
Level 6, 73 Miller Street, North Sydney NSW 2060
TTW

Consultant
Mechanical / Acoustic / Fire Engineer
Level 6, Building B, 207 Pacific Highway St Leonards NSW 2065
STANTEC

Consultant
Hydraulics
Level 23, 101 Miller Street, North Sydney, NSW 2060
JHA

Client
Billbergia Group Pty Ltd
Suite 101, 25 Angas St, Meadowbank, NSW, 2114

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Australia 2011
www.groupgsa.com

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architecture interior design urban design landscape
nom architect Lisa-Maree Carrigan 7568

Project Title
Eden Street Arncliffe

Drawing Title
SOLAR COMPLIANCE TOWER A

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Plotted and checked by	PDS		
Verified	PDS	Approved	LMC
Drawing Created (date)		Drawing Created (by)	JK, SM, AR, EC, AF
			11/09/21

Scale	Project No	Drawing No	Issue
As indicated	180319	DA 4460	B

SOLAR COMPLIANCE SCHEDULE -TOWER A LV 4-9			
ROOM NO	START HOUR	END HOUR	DIRECT SUNTIME (HOURS)
AB - LEVEL 4			
A401	1230	1500	2.30
A402	1100	1500	4.00
A403	900	1500	6.00
A404	900	1300	4.00
A405	900	1330	4.30
A406	900	1430	5.30
A407	900	930	0.30
A408			
A409	1315	1515	2.00
AB - LEVEL 5			
A501	1230	1500	2.30
A502	1100	1500	4.00
A503	900	1500	6.00
A504	900	1330	4.30
A505	900	1330	4.30
A506	900	1430	5.30
A507	900	930	0.30
A508			
A509	1315	1515	2.00
AB - LEVEL 6			
A601			
A602	1300	1500	2.00
A603	900	1500	6.00
A604	900	1400	5.00
A605	900	1400	5.00
A606	900	1400	5.00
A607	900	1400	5.00
A608	900	930	0.30
A609			
A610	1315	1515	2.00
AB - LEVEL 7			
A701			
A702	1030	1500	4.30
A703	900	1500	6.00
A704	900	1400	5.00
A705	900	1400	5.00
A706	900	1400	5.00
A707	900	1400	5.00
A708	900	930	0.30
A709			
AB - LEVEL 8			
A801			
A802	1030	1500	4.30
A803	900	1500	6.00
A804	900	1400	5.00
A805	900	1400	5.00
A806	900	1400	5.00
A807	900	1400	5.00
A808	900	930	0.30
A809			

SOLAR COMPLIANCE SCHEDULE -TOWER A LV 4-9			
ROOM NO	START HOUR	END HOUR	DIRECT SUNTIME (HOURS)
AB - LEVEL 9			
A901			
A903	900	1500	6.00
A904	900	1400	5.00
A905	900	1400	5.00
A906	900	1400	5.00
A907	900	1400	5.00
A908	900	930	0.30
A909			

SOLAR AND DAYLIGHT ACCESS

MIN 2 HOURS DIRECT SOLAR ACCESS

ADG DESIGN CRITERIA
4A-1 1. LIVING ROOMS AND PRIVATE OPEN SPACES OF AT LEAST 70% OF APARTMENTS IN A BUILDING RECEIVE A MIN OF 2 HOURS DIRECT SUNLIGHT BETWEEN 9AM - 3 PM AT MID WINTER

TOTAL NO. OF APARTMENT : 744
ADG REQUIREMENT FOR SOLAR ACCESS : (70%)

PROPOSED SOLAR ACCESS : 524 (70%)

COMPLIANT

NO DIRECT SUNLIGHT

ADG REQUIREMENT FOR NO DIRECT SUNLIGHT:
MAX 15% OF TOTAL NUMBER OF UNIT = 112 UNITS

PROPOSED NO DIRECT SUNLIGHT:
14.50% OF TOTAL NUMBER OF UNIT = 108 UNITS

COMPLIANT

≥ 2 HRS

0<x< 2 HRS



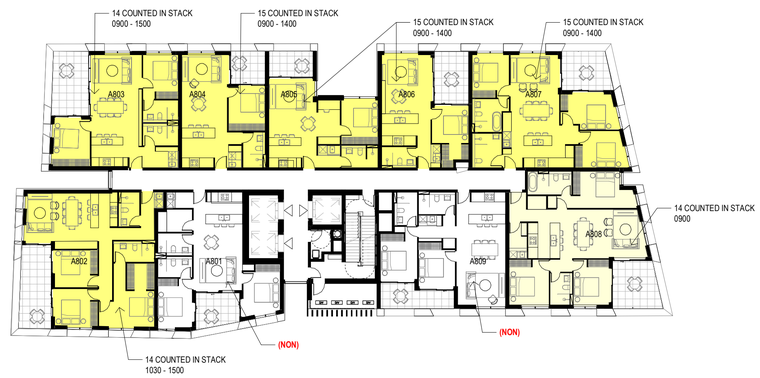
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1 : 250



3 TOWER A - LEVEL 7
1 : 250

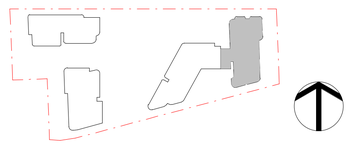


2 TOWER A - LEVEL 6
1 : 250



4 TOWER A - LEVEL 8-9
1 : 250

KEYPLAN



DA SUBMISSION

22/12/2021 12:05:16 PM

Plotted and checked by PDS

Verified PDS Approved LMC

Drawing Created (date) Drawing Created (by) JK, SM, AR, EC, AF

11/10/21

Scale	Project No	Drawing No	Issue
As indicated	180319	DA 4461	B

Amendments

Issue	Description	Date
-	ISSUED FOR GANSW 03	24/03/2021
1	ISSUED FOR INFORMATION	25/05/2021
A	ISSUED FOR REVIEW	08/11/2021
B	ISSUED FOR DA	22/12/2021

Amendments

Issue	Description	Date

Consultant
Structural Engineer / Civil
Level 6, 73 Miller Street, North Sydney
NSW 2060
TTW

Consultant
Mechanical / Acoustic / Fire Engineer
Level 6, Building B, 207 Pacific Highway
St Leonards NSW 2065
STANTEC

Consultant
Hydraulics
Level 23, 101 Miller Street, North Sydney,
NSW 2060
JHA

Client
Billbergia Group Pty Ltd
Suite 101, 25 Angas St,
Meadowbank, NSW, 2114

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Level 7, 80 William St East Sydney NSW
Australia 2011
www.groupgsa.com

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architecture interior design urban design landscape
nom architect Lisa-Maree Carrigan 7568

Project Title
Eden Street Arncliffe

Drawing Title
SOLAR COMPLIANCE TOWER A

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SOLAR COMPLIANCE SCHEDULE-TOWER A LV 10-17			
ROOM NO	START HOUR	END HOUR	DIRECT SUNTIME (HOURS)
AB - LEVEL 10			
A1001			
A1003	900	1500	6.00
A1004	900	1400	5.00
A1006	900	1400	5.00
A1007	900	1400	5.00
A1008	900	930	0.30
A1009			
AB - LEVEL 11			
A1101			
A1102	1030	1500	4.30
A1103	900	1500	6.00
A1104	900	1400	5.00
A1105	900	1400	5.00
A1106	900	1400	5.00
A1107	900	1400	6.00
A1108	900	930	0.30
A1109			
AB - LEVEL 12			
A1201			
A1202	1030	1500	4.30
A1203	900	1500	6.00
A1204	900	1400	5.00
A1205	900	1400	5.00
A1206	900	1400	5.00
A1207	900	1400	5.00
A1208	900	930	0.30
A1209			
AB - LEVEL 13			
A1301			
A1302	1030	1500	4.30
A1303	900	1500	6.00
A1304	900	1400	5.00
A1305	900	1400	5.00
A1306	900	1400	5.00
A1307	900	1400	5.00
A1308	900	930	0.30
A1309			
AB - LEVEL 14			
A1401			
A1402	1030	1500	4.30
A1403	900	1500	6.00
A1404	900	1400	5.00
A1405	900	1400	5.00
A1406	900	1400	5.00
A1407	900	1400	5.00
A1408	900	930	0.30
A1409			
AB - LEVEL 15			
A1501			
A1502	1030	1500	4.30

SOLAR COMPLIANCE SCHEDULE-TOWER A LV 10-17			
ROOM NO	START HOUR	END HOUR	DIRECT SUNTIME (HOURS)
A1503	900	1500	6.00
A1504	900	1400	5.00
A1505	900	1400	5.00
A1506	900	1400	5.00
A1507	900	1400	5.00
A1508	900	930	0.30
A1509			
AB - LEVEL 16			
A1601			
A1602	1030	1500	4.30
A1603	900	1500	6.00
A1604	900	1400	5.00
A1605	900	1400	5.00
A1606	900	1400	5.00
A1607	900	1400	5.00
A1608	900	930	0.30
A1609			
AB - LEVEL 17			
A1701			
A1702	1030	1500	4.30
A1703	900	1500	6.00
A1704	900	1400	5.00
A1705	900	1400	5.00
A1706	900	1400	5.00
A1707	900	1400	5.00
A1708	900	930	0.30
A1709			

SOLAR AND DAYLIGHT ACCESS

MIN 2 HOURS DIRECT SOLAR ACCESS

ADG DESIGN CRITERIA
4A-1 1. LIVING ROOMS AND PRIVATE OPEN SPACES OF AT LEAST
70% OF APARTMENTS IN A BUILDING RECEIVE A MIN OF 2 HOURS
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TOTAL NO. OF APARTMENT : 744
ADG REQUIREMENT FOR SOLAR ACCESS : (70%)

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COMPLIANT

NO DIRECT SUNLIGHT

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MAX 15% OF TOTAL NUMBER OF UNIT = 112 UNITS

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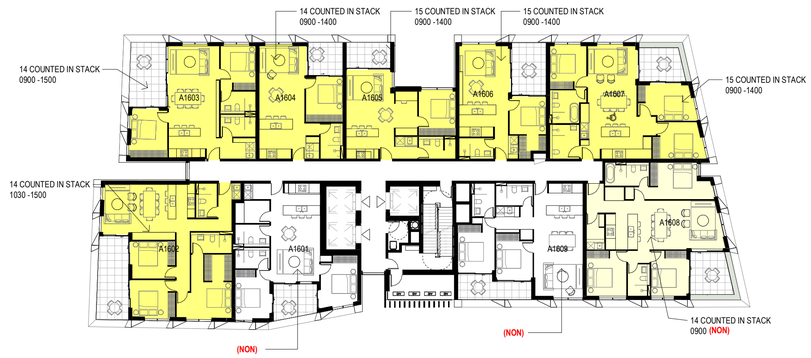
COMPLIANT

≥ 2 HRS

0<x< 2 HRS



1 TOWER A - LEVEL 10-14
1 : 250



3 TOWER A - LEVEL 16
1 : 250

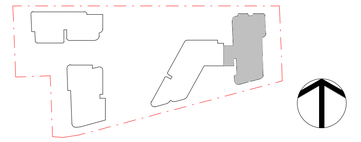


2 TOWER A - LEVEL 15
1 : 250



4 TOWER A - LEVEL 17
1 : 250

KEYPLAN



Amendments

Issue	Description	Date
-	ISSUED FOR GANSW 03	24/03/2021
1	ISSUED FOR INFORMATION	25/05/2021
A	ISSUED FOR REVIEW	08/11/2021
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Amendments

Issue	Description	Date

Consultant
Structural Engineer / Civil
Level 6, 73 Miller Street, North Sydney NSW 2060
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Consultant
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architecture interior design urban design landscape
nom architect Lisa-Maree Carrigan 7568

Project Title
Eden Street Arncliffe

Drawing Title
SOLAR COMPLIANCE TOWER A

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22/12/2021 12:05:54 PM

Plotted and checked by	PDS		
Verified	PDS	Approved	LMC
Drawing Created (date)		Drawing Created (by)	JK, SM, AR, EC, AF
			11/10/21

Scale	Project No	Drawing No	Issue
As indicated	180319	DA 4462	B

SOLAR COMPLIANCE SCHEDULE -TOWER A LV 18-20			
ROOM NO	START HOUR	END HOUR	DIRECT SUNTIME (HOURS)
AB - LEVEL 18			
A1801			
A1803	900	1500	6.00
A1804	900	1400	5.00
A1805	900	1400	5.00
A1806	900	1400	5.00
A1807	900	1400	5.00
A1808	900	930	0.30
A1809			
AB - LEVEL 19			
A1901			
A1903	900	1500	6.00
A1904	900	1400	5.00
A1905	900	1400	5.00
A1906	900	1400	5.00
A1907	900	1400	5.00
A1908	900	930	0.30
A1909			
AB - LEVEL 20			
A2001	900	1500	6.00
A2003	900	1500	6.00
A2004	900	1400	5.00
A2005	900	1400	5.00
A2006	900	1400	5.00
A2007	900	1500	6.00
A2008			



1 TOWER A - LEVEL 18
1 : 250



3 TOWER A - LEVEL 20
1 : 250

SOLAR AND DAYLIGHT ACCESS

MIN 2 HOURS DIRECT SOLAR ACCESS

ADG DESIGN CRITERIA
4A-1 1. LIVING ROOMS AND PRIVATE OPEN SPACES OF AT LEAST
70% OF APARTMENTS IN A BUILDING RECEIVE A MIN OF 2 HOURS
DIRECT SUNLIGHT BETWEEN 9AM - 3 PM AT MID WINTER

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ADG REQUIREMENT FOR SOLAR ACCESS : (70%)

PROPOSED SOLAR ACCESS : 524 (70%)

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NO DIRECT SUNLIGHT

ADG REQUIREMENT FOR NO DIRECT SUNLIGHT:
MAX 15% OF TOTAL NUMBER OF UNIT = 112 UNITS

PROPOSED NO DIRECT SUNLIGHT:
14.50% OF TOTAL NUMBER OF UNIT = 108 UNITS

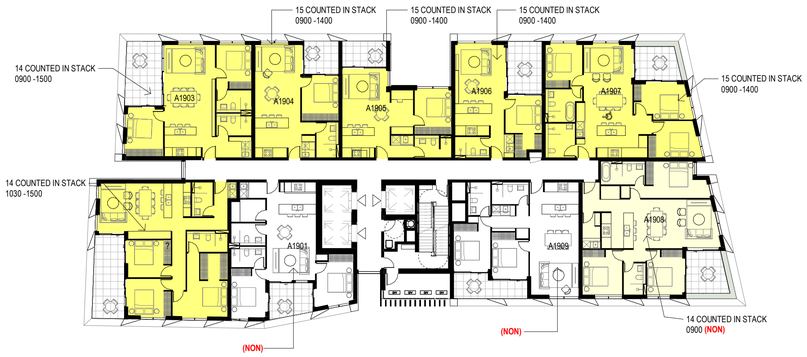
COMPLIANT

≥ 2 HRS

0<x< 2 HRS

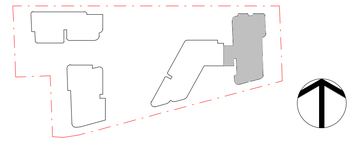
TOWER A TOTAL NO. OF APARTMENT : 186
ADG REQUIREMENT FOR SOLAR ACCESS : (70%)

PROPOSED SOLAR ACCESS : 132 (71%)



2 TOWER A - LEVEL 19
1 : 250

KEYPLAN



Amendments

Issue	Description	Date
-	ISSUED FOR GANSW 03	24/03/2021
1	ISSUED FOR INFORMATION	25/05/2021
A	ISSUED FOR REVIEW	08/11/2021
B	ISSUED FOR DA	22/12/2021

Amendments

Issue	Description	Date

Consultant
Structural Engineer / Civil
Level 6, 73 Miller Street, North Sydney
NSW 2060
TTW

Consultant
Mechanical / Acoustic / Fire Engineer
Level 6, Building B, 207 Pacific Highway
St Leonards NSW 2065
STANTEC

Consultant
Hydraulics
Level 23, 101 Miller Street, North Sydney,
NSW 2060
JHA

Client
Billbergia Group Pty Ltd
Suite 101, 25 Angas St,
Meadowbank, NSW, 2114

Billbergia
creating communities®

GROUPGSA

Group GSA Pty Ltd ABN 76 002 113 779
Level 7, 80 William St East Sydney NSW
Australia 2011
www.groupgsa.com

T +612 9361 4144 F +612 9332 3458

architecture interior design urban design landscape
nom architect Lisa-Maree Carrigan 7568

Project Title
Eden Street Arncliffe

Drawing Title
SOLAR COMPLIANCE TOWER A

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22/12/2021 12:06:26 PM

Plotted and checked by	PDS		
Verified	PDS	Approved	LMC
Drawing Created (date)		Drawing Created (by)	JK, SM, AR, EC, AF
			11/10/21

Scale	Project No	Drawing No	Issue
As indicated	180319	DA 4463	B

SOLAR COMPLIANCE SCHEDULE -TOWER B LV UG-3			
ROOM NO	START HOUR	END HOUR	DIRECT SUNTIME (HOURS)
1AB - UPPER GROUND			
B001	1300	1500	2.00
B002	1300	1500	2.00
B003	1400	1500	1.00
AB - LEVEL 1			
B101	1300	1500	2.00
B102	1300	15000	2.00
B103	1130	1500	3.30
B104	1200	1500	3.00
B105			
B106			
B107	900	930	0.30
B108	900	930	0.30
B109	1300	1500	2.00
B110	1300	1500	2.00
AB - LEVEL 2			
B201	1300	1500	2.00
B202	1300	1500	2.00
B203	1130	1500	3.30
B204	1230	1500	2.30
B205			
B206			
B207	900	930	0.30
B208	900	930	0.30
B209	1300	1500	2.00
B210	1300	1500	2.00
B211	1300	1500	2.00
AB - LEVEL 3			
B301	1300	1500	2.00
B302	1300	1500	2.00
B303	1130	1500	3.30
B304	1200	1500	3.00
B305			
B306			
B307	900	930	0.30
B308	900	930	0.30
B309	1300	1500	2.00
B310	1300	1500	2.00
B311	1300	1500	2.00

SOLAR AND DAYLIGHT ACCESS

MIN 2 HOURS DIRECT SOLAR ACCESS

ADG DESIGN CRITERIA
4A-1 1. LIVING ROOMS AND PRIVATE OPEN SPACES OF AT LEAST 70% OF APARTMENTS IN A BUILDING RECEIVE A MIN OF 2 HOURS DIRECT SUNLIGHT BETWEEN 9AM - 3 PM AT MID WINTER

TOTAL NO. OF APARTMENT : 744
ADG REQUIREMENT FOR SOLAR ACCESS : (70%)

PROPOSED SOLAR ACCESS : 518 (70%)

COMPLIANT

NO DIRECT SUNLIGHT

ADG REQUIREMENT FOR NO DIRECT SUNLIGHT:
MAX 15% OF TOTAL NUMBER OF UNIT = 112 UNITS

PROPOSED NO DIRECT SUNLIGHT:
14.50% OF TOTAL NUMBER OF UNIT = 108 UNITS

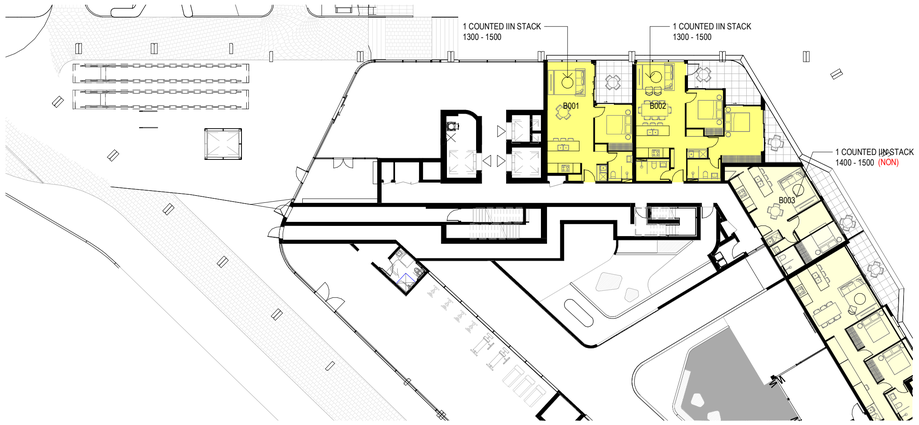
COMPLIANT

≥ 2 HRS

0<x< 2 HRS

TOWER B TOTAL NO. OF APARTMENT : 202
ADG REQUIREMENT FOR SOLAR ACCESS : (70%)

PROPOSED SOLAR ACCESS : 146 (72%)



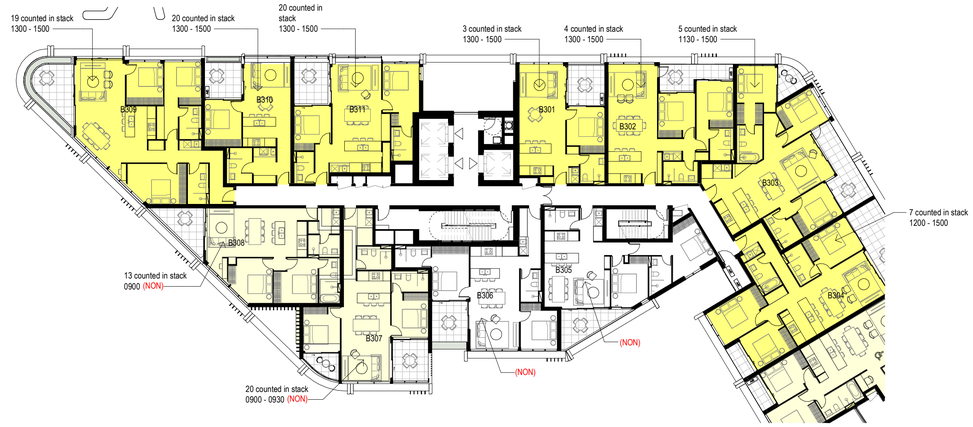
1 TOWER B - LEVEL UPPER GROUND
1 : 250



2 TOWER B - LEVEL 1
1 : 250

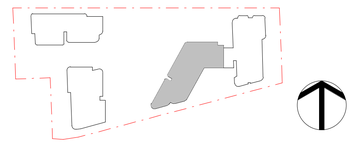


3 TOWER B - LEVEL 2
1 : 250



4 TOWER B - LEVEL 3
1 : 250

KEYPLAN



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22/12/2021 12:07:09 PM

Plotted and checked by PDS

Verified PDS Approved LMC

Drawing Created (date) Drawing Created (by) JK, SM, AR, EC, AF

11/10/21

Scale	Project No	Drawing No	Issue
As indicated	180319	DA 4470	B

Amendments

Issue	Description	Date
-	ISSUED FOR GANSW 03	24/03/2021
1	ISSUED FOR INFORMATION	25/05/2021
A	ISSUED FOR REVIEW	08/11/2021
B	ISSUED FOR DA	22/12/2021

Amendments

Issue	Description	Date

Consultant
Structural Engineer / Civil
Level 6, 73 Miller Street, North Sydney NSW 2060
TTW

Consultant
Mechanical / Acoustic / Fire Engineer
Level 6, Building B, 207 Pacific Highway St Leonards NSW 2065
STANTEC

Consultant
Hydraulics
Level 23, 101 Miller Street, North Sydney, NSW 2060
JHA

Client
Billbergia Group Pty Ltd
Suite 101, 25 Angas St,
Meadowbank, NSW, 2114

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www.groupgsa.com

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architecture interior design urban design landscape
nom architect Lisa-Maree Carrigan 7568

Project Title
Eden Street Arncliffe

Drawing Title
SOLAR COMPLIANCE TOWER B

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SOLAR COMPLIANCE SCHEDULE -TOWER B LV 4-9			
ROOM NO	START HOUR	END HOUR	DIRECT SUNTIME (HOURS)
AB - LEVEL 4			
B401	1300	1500	2.00
B402	1300	1500	2.00
B403	1130	1500	3.30
B404	1200	1500	2.00
B405			
B406			
B407	900	930	0.30
B408	900	930	0.30
B409	1300	1500	2.00
B410	1300	1500	2.00
B411	1300	1500	2.00
AB - LEVEL 5			
B501	1300	1500	2.00
B502	1300	1500	2.00
B503	1130	1500	3.30
B504	1230	1500	2.30
B505			
B506			
B507	900	930	0.30
B508	900	930	0.30
B509	1300	1500	2.00
B510	1300	1500	2.00
B511	1300	1500	2.00
AB - LEVEL 6			
B601	1300	1500	2.00
B602	1200	1500	3.00
B603	1200	1500	3.00
B604	1300	1400	1.00
B605			
B606	900	930	0.30
B607	900	930	0.30
B609	1300	1500	2.00
B610	1330	1500	1.30
AB - LEVEL 7			

SOLAR COMPLIANCE SCHEDULE -TOWER B LV 4-9			
ROOM NO	START HOUR	END HOUR	DIRECT SUNTIME (HOURS)
B701	1300	1500	2.00
B702	1130	1500	3.30
B704	1300	1400	1.00
B705	900	930	0.30
B706	900	930	0.30
B708	1300	1500	2.00
B709	1300	1500	2.00
AB - LEVEL 8			
B801	1300	1500	2.00
B802	1200	1500	3.00
B805	900	930	0.30
B806	900	930	0.30
B806	1330	1500	1.30
B808	1300	1500	2.00
B809	1300	1500	2.00
AB - LEVEL 9			
B901	1300	1500	2.00
B902	1130	1500	3.30
B905	900	930	0.30
B906	900	930	0.30
B906	1330	1500	1.30
B908	1300	1500	2.00
B909	1300	1500	2.00

SOLAR AND DAYLIGHT ACCESS

MIN 2 HOURS DIRECT SOLAR ACCESS

ADG DESIGN CRITERIA
4A-1 1. LIVING ROOMS AND PRIVATE OPEN SPACES OF AT LEAST 70% OF APARTMENTS IN A BUILDING RECEIVE A MIN OF 2 HOURS DIRECT SUNLIGHT BETWEEN 9AM - 3 PM AT MID WINTER

TOTAL NO. OF APARTMENT : 744
ADG REQUIREMENT FOR SOLAR ACCESS : (70%)

PROPOSED SOLAR ACCESS : 518 (70%)

COMPLIANT

NO DIRECT SUNLIGHT

ADG REQUIREMENT FOR NO DIRECT SUNLIGHT:
MAX 15% OF TOTAL NUMBER OF UNIT = 112 UNITS

PROPOSED NO DIRECT SUNLIGHT:
14.50% OF TOTAL NUMBER OF UNIT = 108 UNITS

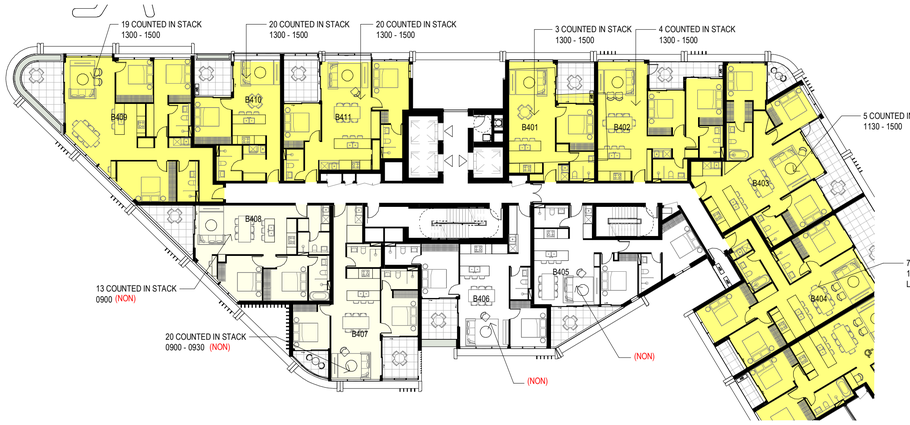
COMPLIANT

≥ 2 HRS

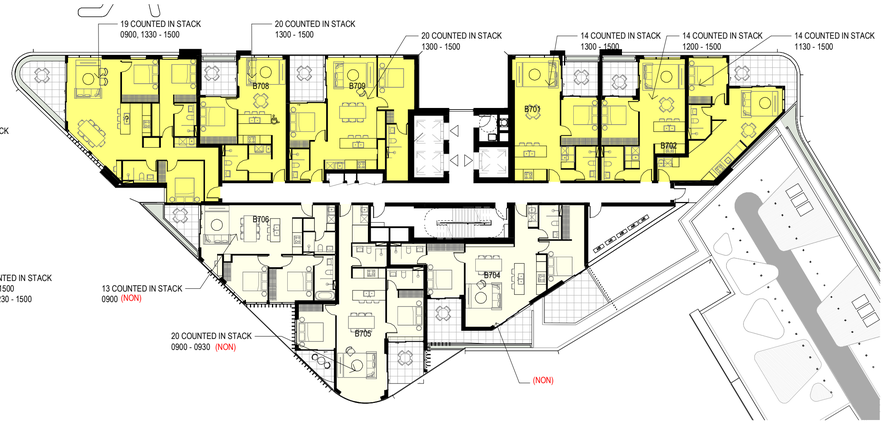
0<x< 2 HRS

TOWER B TOTAL NO. OF APARTMENT : 202
ADG REQUIREMENT FOR SOLAR ACCESS : (70%)

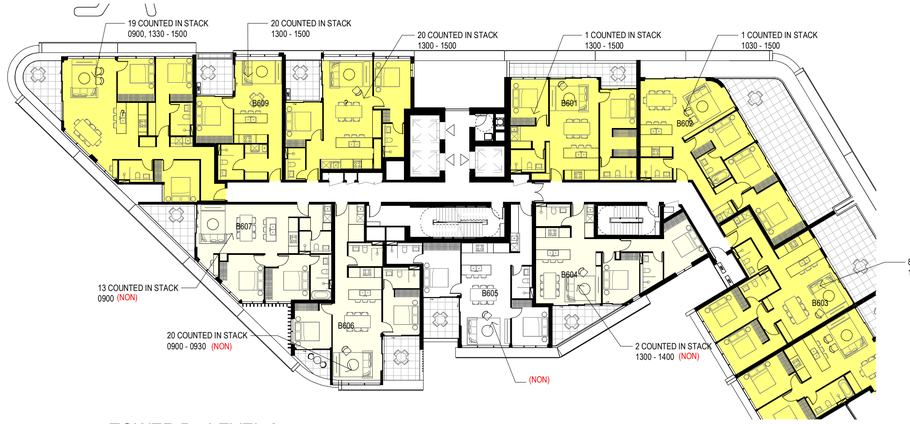
PROPOSED SOLAR ACCESS : 146 (72%)



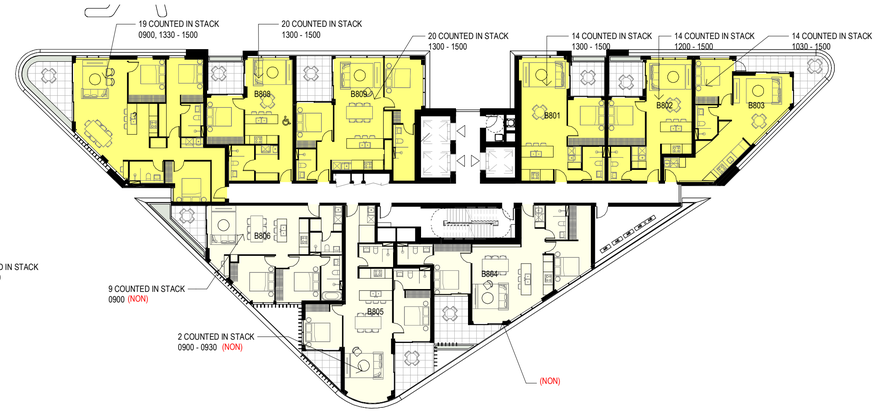
1 TOWER B - LEVEL 4-5
1 : 250



3 TOWER B - LEVEL 7
1 : 250

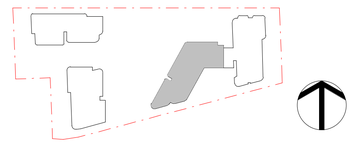


2 TOWER B - LEVEL 6
1 : 250



4 TOWER B - LEVEL 8-9
1 : 250

KEYPLAN



DA SUBMISSION

22/12/2021 12:07:50 PM

Amendments

Issue	Description	Date
-	ISSUED FOR GANSW 03	24/03/2021
1	ISSUED FOR INFORMATION	25/05/2021
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B	ISSUED FOR DA	22/12/2021

Amendments

Issue	Description	Date

Consultant
Structural Engineer / Civil
Level 6, 73 Miller Street, North Sydney
NSW 2060
TTW

Consultant
Mechanical / Acoustic / Fire Engineer
Level 6, Building B, 207 Pacific Highway
St Leonards NSW 2065
STANTEC

Consultant
Hydraulics
Level 23, 101 Miller Street, North Sydney,
NSW 2060
JHA

Client
Billbergia Group Pty Ltd
Suite 101, 25 Angas St,
Meadowbank, NSW, 2114

Billbergia
creating communities®

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Level 7, 80 William St East Sydney NSW
Australia 2011
www.groupgsa.com

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architecture interior design urban design landscape
nom architect Lisa-Maree Carrigan 7568

Project Title
Eden Street Arncliffe

Drawing Title
SOLAR COMPLIANCE TOWER B

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Plotted and checked by	PDS		
Verified	PDS	Approved	LMC
Drawing Created (date)		Drawing Created (by)	JK, SM, AR, EC, AF
			11/10/21

Scale	Project No	Drawing No	Issue
As indicated	180319	DA 4471	B

SOLAR COMPLIANCE SCHEDULE -TOWER B LV 10-17			
ROOM NO	START HOUR	END HOUR	DIRECT SUNTIME (HOURS)
AB - LEVEL 10			
B1001	1300	1500	2.00
B1002	1130	1500	3.30
B1005	900	930	0.30
B1006	900	930	0.30
B1006	1330	1500	1.30
B1008	1300	1500	2.00
B1009	1300	1500	2.00
AB - LEVEL 11			
B1101	1300	1500	2.00
B1102	1130	1500	3.30
B1104	1300	1400	1.00
B1105	900	930	0.30
B1106	900	930	0.30
B1106	1330	1500	1.30
B1108	1300	1500	2.00
B1109	1300	1500	2.00
AB - LEVEL 12			
B1201	1300	1500	2.00
B1202	1130	1500	3.30
B1205	900	930	0.30
B1206	900	930	0.30
B1208	1300	1500	2.00
B1209	1300	1500	2.00
AB - LEVEL 13			
B1301	1300	1500	2.00
B1302	1130	1500	3.30
B1305	900	930	0.30
B1306	900	930	0.30
B1306	1330	1500	1.30
B1308	1300	1500	2.00
B1309	1300	1500	2.00
AB - LEVEL 14			
B1401	1300	1500	2.00
B1402	1130	1500	3.30
B1404	1300	1400	1.00
B1405			2.00
B1406	900	930	0.30
B1406	1330	1500	1.30
B1408	1300	1500	2.00
B1409	1300	1500	2.00
AB - LEVEL 15			
B1501	1300	1500	2.00
B1502	1100	1500	4.00
B1504	1130	1200	0.30
B1505			2.00
B1506	900	930	0.30
B1506	1330	1500	1.30
B1508	1300	1500	2.00
B1509	1300	1500	2.00
AB - LEVEL 16			
B1601	1300	1500	2.00
B1602	1030	1500	4.30
B1604	1100	1130	0.30
B1605			2.00
B1606	900	930	0.30
B1606	1330	1500	1.30
B1608	1300	1500	2.00
B1609	1300	1500	2.00
AB - LEVEL 17			
B1701	1300	1500	2.00

SOLAR COMPLIANCE SCHEDULE -TOWER B LV 10-17			
ROOM NO	START HOUR	END HOUR	DIRECT SUNTIME (HOURS)
B1702	1000	1500	5.00
B1704	945	1145	2.00
B1705	900	1200	3.00
B1706	900	930	
B1706	1330	1500	1.30
B1708	1300	1500	2.00
B1709	1300	1500	2.00

SOLAR AND DAYLIGHT ACCESS

MIN 2 HOURS DIRECT SOLAR ACCESS

ADG DESIGN CRITERIA
4A-1 1. LIVING ROOMS AND PRIVATE OPEN SPACES OF AT LEAST 70% OF APARTMENTS IN A BUILDING RECEIVE A MIN OF 2 HOURS DIRECT SUNLIGHT BETWEEN 9AM - 3 PM AT MID WINTER

TOTAL NO. OF APARTMENT : 744
ADG REQUIREMENT FOR SOLAR ACCESS : (70%)

PROPOSED SOLAR ACCESS : 524 (70%)

COMPLIANT

NO DIRECT SUNLIGHT

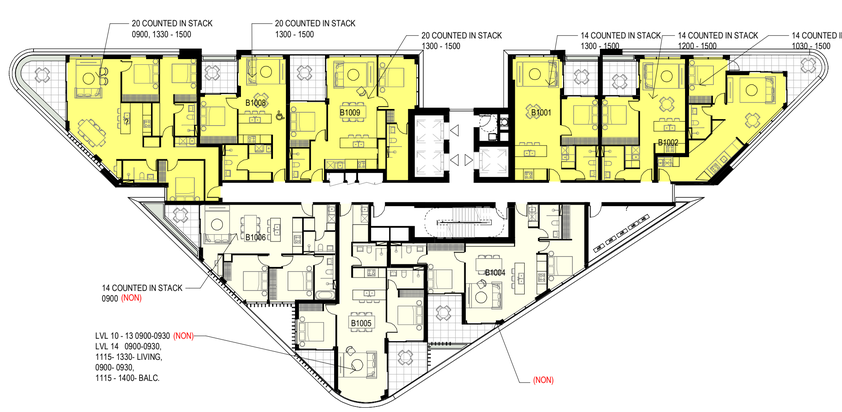
ADG REQUIREMENT FOR NO DIRECT SUNLIGHT:
MAX 15% OF TOTAL NUMBER OF UNIT = 112 UNITS

PROPOSED NO DIRECT SUNLIGHT:
14.50% OF TOTAL NUMBER OF UNIT = 108 UNITS

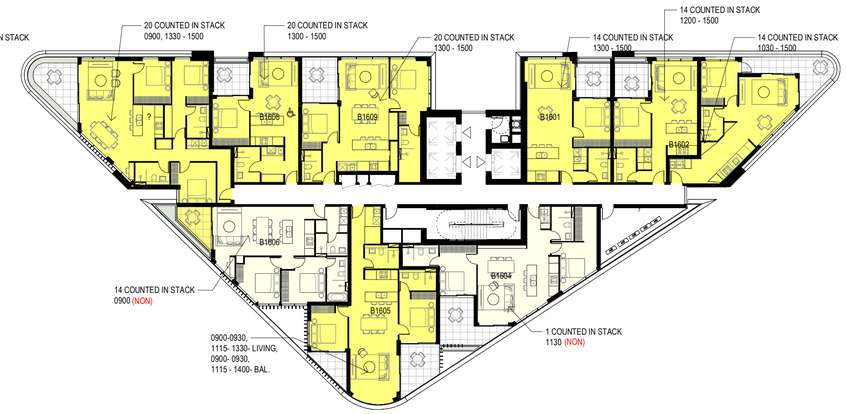
COMPLIANT

≥ 2 HRS

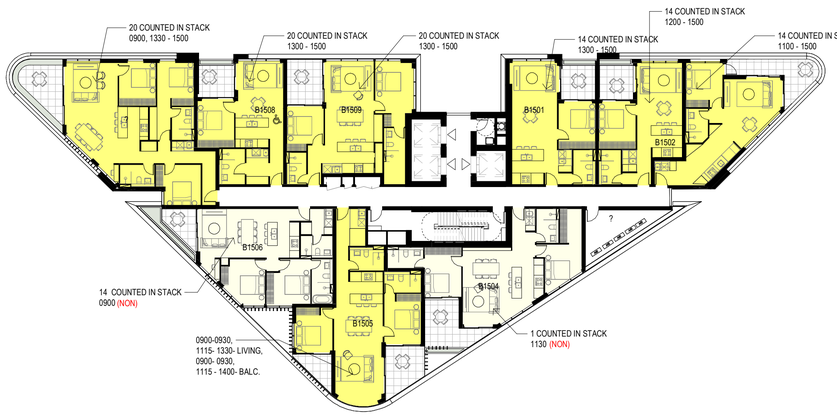
0<x< 2 HRS



1 TOWER B - LEVEL 10-14
1 : 250



3 TOWER B - LEVEL 16
1 : 250

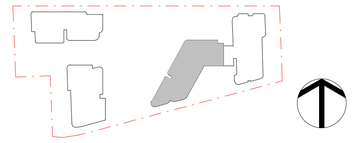


2 TOWER B - LEVEL 15
1 : 250



4 TOWER B - LEVEL 17
1 : 250

KEYPLAN



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22/12/2021 12:08:30 PM

Plotted and checked by PDS
Verified PDS Approved LMC
Drawing Created (date) Drawing Created (by) JK, SM, AR, EC, AF
11/10/21

Scale	Project No	Drawing No	Issue
As indicated	180319	DA 4472	B

Amendments

Issue	Description	Date
-	ISSUED FOR GANSW 03	24/03/2021
1	ISSUED FOR INFORMATION	25/05/2021
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Amendments

Issue	Description	Date

Consultant
Structural Engineer / Civil
Level 6, 73 Miller Street, North Sydney NSW 2060
TTW

Consultant
Mechanical / Acoustic / Fire Engineer
Level 6, Building B, 207 Pacific Highway St Leonards NSW 2065
STANTEC

Consultant
Hydraulics
Level 23, 101 Miller Street, North Sydney, NSW 2060
JHA

Client
Billbergia Group Pty Ltd
Suite 101, 25 Angas St, Meadowbank, NSW, 2114

Billbergia creating communities®

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Level 7, 80 William St East Sydney NSW
Australia 2011
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architecture interior design urban design landscape
nom architect Lisa-Maree Carrigan 7568

Project Title
Eden Street Arncliffe

Drawing Title
SOLAR COMPLIANCE TOWER B

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SOLAR COMPLIANCE SCHEDULE -TOWER B LV 18-20			
ROOM NO	START HOUR	END HOUR	DIRECT SUNTIME (HOURS)
AB - LEVEL 18			
B1801	1300	1500	2.00
B1802	900	1500	6.00
B1804	930	1130	2.00
B1805	900	1200	3.00
B1806	900	930	
B1806	1330	1500	1.30
B1808	1300	1500	2.00
B1809	1300	1500	2.00
AB - LEVEL 19			
B1901	1300	1500	2.00
B1902	900	1500	6.00
B1904	900	1130	2.30
B1905	900	1200	3.00
B1906	900	930	0.30
B1906	1330	1500	1.30
B1908	1300	1500	2.00
B1909	1300	1500	2.00
AB - LEVEL 20			
B2001	1300	1500	2.00
B2002	900	1500	6.00
B2004	900	1130	2.30
B2005	900	1200	3.00
B2006	900	930	0.30
B2006	1330	1500	1.30
B2008	1300	1500	2.00
B2009	1300	1500	2.00
AB - LEVEL 21			
B2101	1300	1500	2.00
B2102	900	1500	6.00
B2104	900	1500	6.00
B2105	900	1200	3.00
B2106	900	930	0.30
B2106	1330	1500	1.30
B2108	1300	1500	2.00
B2109	1300	1500	2.00

SOLAR AND DAYLIGHT ACCESS

MIN 2 HOURS DIRECT SOLAR ACCESS

ADG DESIGN CRITERIA
4A-1 1. LIVING ROOMS AND PRIVATE OPEN SPACES OF AT LEAST
70% OF APARTMENTS IN A BUILDING RECEIVE A MIN OF 2 HOURS
DIRECT SUNLIGHT BETWEEN 9AM - 3 PM AT MID WINTER

TOTAL NO. OF APARTMENT : 744
ADG REQUIREMENT FOR SOLAR ACCESS : (70%)

PROPOSED SOLAR ACCESS : 518 (70%)

COMPLIANT

NO DIRECT SUNLIGHT

ADG REQUIREMENT FOR NO DIRECT SUNLIGHT:
MAX 15% OF TOTAL NUMBER OF UNIT = 112 UNITS

PROPOSED NO DIRECT SUNLIGHT:
14.50% OF TOTAL NUMBER OF UNIT = 108 UNITS

COMPLIANT

≥ 2 HRS

0<x< 2 HRS

TOWER B TOTAL NO. OF APARTMENT : 202
ADG REQUIREMENT FOR SOLAR ACCESS : (70%)

PROPOSED SOLAR ACCESS : 146 (72%)



1 TOWER B - LEVEL 18
1 : 250



3 TOWER B - LEVEL 20
1 : 250

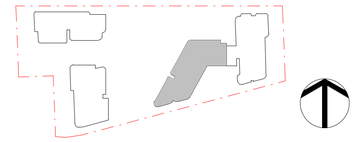


2 TOWER B - LEVEL 19
1 : 250



4 TOWER B - LEVEL 21
1 : 250

KEYPLAN



DA SUBMISSION

22/12/2021 12:09:08 PM

Amendments		
Issue	Description	Date
-	ISSUED FOR GANSW 03	24/03/2021
1	ISSUED FOR INFORMATION	25/05/2021
A	ISSUED FOR REVIEW	08/11/2021
B	ISSUED FOR DA	22/12/2021

Amendments		
Issue	Description	Date

Consultant
Structural Engineer / Civil
Level 6, 73 Miller Street, North Sydney
NSW 2060
TTW

Consultant
Mechanical / Acoustic / Fire Engineer
Level 6, Building B, 207 Pacific Highway
St Leonards NSW 2065
STANTEC

Consultant
Hydraulics
Level 23, 101 Miller Street, North Sydney,
NSW 2060
JHA

Client
Billbergia Group Pty Ltd
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Meadowbank, NSW, 2114

Billbergia
creating communities®

GROUPGSA
Group GSA Pty Ltd ABN 76 002 113 779
Level 7, 80 William St East Sydney NSW
Australia 2011
www.groupgsa.com

T +612 9361 4144 F +612 9332 3458

architecture interior design urban design landscape
nom architect Lisa-Maree Carrigan 7568

Project Title
Eden Street Arncliffe

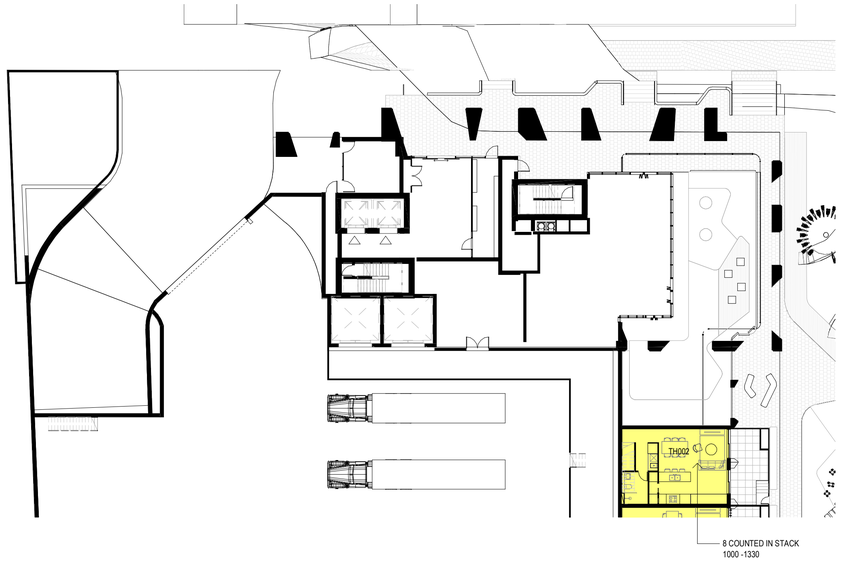
Drawing Title
SOLAR COMPLIANCE TOWER B

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Plotted and checked by	PDS		
Verified PDS		Approved	LMC
Drawing Created (date)		Drawing Created (by)	JK, SM, AR, EC, AF
			11/10/21

Scale	Project No	Drawing No	Issue
As indicated	180319	DA 4473	B

SOLAR COMPLIANCE SCHEDULE -TOWER C LV UG-3			
ROOM NO	START HOUR	END HOUR	DIRECT SUNTIME (HOURS)
C - LEVEL 1			
C101	930	1500	5.30
C102	930	1500	5.30
C103	900	1500	5.30
C104	930	1400	4.30
C105	930	1400	4.30
C106			
C107			
C108			
C109	1130	1500	3.30
C110	930	1500	5.30
C - LEVEL 2			
C201	930	1500	5.30
C202	930	1500	5.30
C203	900	1500	6.00
C204	930	1400	4.30
C205	930	1400	4.30
C206			
C207			
C208			
C209	1130	1500	3.30
C210	930	1500	5.30
C - LEVEL 3			
C301	930	1500	5.30
C302	930	1500	5.30
C303	900	1500	6.00
C304	930	1400	4.30
C305	930	1400	4.30
C306			
C307			
C308			
C309	1130	1500	3.30
C310	930	1500	5.30



1 TOWER C - LEVEL UPPER GROUND
1 : 250



3 TOWER C - LEVEL 2
1 : 250

SOLAR AND DAYLIGHT ACCESS

MIN 2 HOURS DIRECT SOLAR ACCESS

ADG DESIGN CRITERIA
4A-1 1. LIVING ROOMS AND PRIVATE OPEN SPACES OF AT LEAST 70% OF APARTMENTS IN A BUILDING RECEIVE A MIN OF 2 HOURS DIRECT SUNLIGHT BETWEEN 9AM - 3 PM AT MID WINTER

TOTAL NO. OF APARTMENT : 744
ADG REQUIREMENT FOR SOLAR ACCESS : (70%)

PROPOSED SOLAR ACCESS : 524 (70%)

COMPLIANT

NO DIRECT SUNLIGHT

ADG REQUIREMENT FOR NO DIRECT SUNLIGHT:
MAX 15% OF TOTAL NUMBER OF UNIT = 112 UNITS

PROPOSED NO DIRECT SUNLIGHT:
14.50% OF TOTAL NUMBER OF UNIT = 108 UNITS

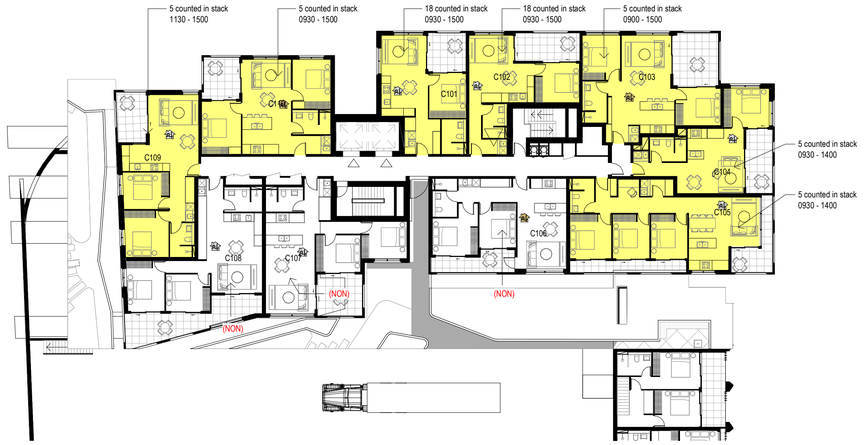
COMPLIANT

≥ 2 HRS

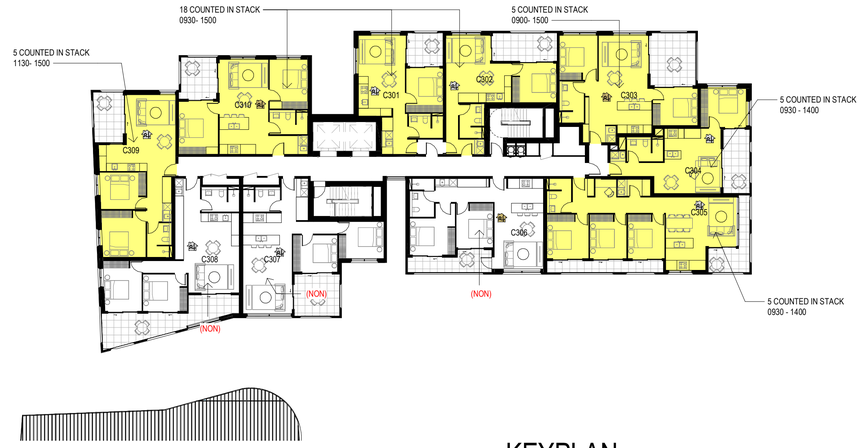
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TOWER C TOTAL NO. OF APARTMENT : 180
ADG REQUIREMENT FOR SOLAR ACCESS : (70%)

PROPOSED SOLAR ACCESS : 126 (70%)

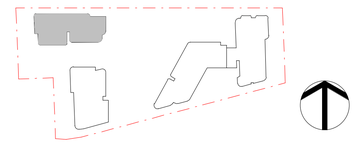


2 TOWER C - LEVEL 1
1 : 250



4 TOWER C - LEVEL 3
1 : 250

KEYPLAN



DA SUBMISSION

22/12/2021 12:09:47 PM

Amendments

Issue	Description	Date
-	ISSUED FOR GANSW 03	24/03/2021
1	ISSUED FOR INFORMATION	25/05/2021
A	ISSUED FOR REVIEW	08/11/2021
B	ISSUED FOR DA	22/12/2021

Amendments

Issue	Description	Date

Consultant
Structural Engineer / Civil
Level 6, 73 Miller Street, North Sydney NSW 2060
TTW

Consultant
Mechanical / Acoustic / Fire Engineer
Level 6, Building B, 207 Pacific Highway St Leonards NSW 2065
STANTEC

Consultant
Hydraulics
Level 23, 101 Miller Street, North Sydney, NSW 2060
JHA

Client
Billbergia Group Pty Ltd
Suite 101, 25 Angas St,
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architecture interior design urban design landscape
nom architect Lisa-Maree Carrigan 7568

Project Title
Eden Street Arncliffe

Drawing Title
SOLAR COMPLIANCE TOWER C

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Plotted and checked by	PDS		
Verified PDS		Approved	LMC
Drawing Created (date)		Drawing Created (by)	JK, SM, AR, EC, AF
			11/10/21

Scale	Project No	Drawing No	Issue
As indicated	180319	DA 4480	B

SOLAR COMPLIANCE SCHEDULE -TOWER C LV 4-9			
ROOM NO	START HOUR	END HOUR	DIRECT SUNTIME (HOURS)
C - LEVEL 4			
C401	930	1500	5.30
C402	930	1500	5.30
C403	900	1500	6.00
C404	930	1400	4.30
C405	930	1400	4.30
C406			
C407			
C408			
C409	1130	1500	3.30
C410	930	1500	5.30
C - LEVEL 5			
C501	930	1500	5.30
C502	930	1500	5.30
C503	900	1500	6.00
C504	930	1400	4.30
C505	930	1400	4.30
C506			
C507			
C508			
C509	1130	1500	3.30
C510	930	1500	5.30
C - LEVEL 6			
C601	930	1500	5.30
C602	930	1500	5.30
C603	900	1500	6.00
C604	930	1400	4.30
C605	930	1230	3.00
C606			
C607	900		0.30
C608			
C609	1100	1500	
C610	930	1500	5.30
C - LEVEL 7			
C701	930	1500	5.30
C702	930	1500	5.30
C703	900	1500	6.00
C704	930	1400	4.30
C705	930	1230	3.00
C706			
C707	900	930	0.30
C708	1030	1300	2.30
C709	1100	1500	4.00
C710	930	1500	5.30

SOLAR COMPLIANCE SCHEDULE -TOWER C LV 4-9			
ROOM NO	START HOUR	END HOUR	DIRECT SUNTIME (HOURS)
C - LEVEL 8			
C801	930	1500	5.30
C802	930	1500	5.30
C803	900	1500	6.00
C804	930	1400	4.30
C805	930	1230	3.00
C806			
C807	900	930	0.30
C808			
C809	1100	1500	4.00
C810	930	1500	5.30
C - LEVEL 9			
C901	930	1500	5.30
C902	930	1500	5.30
C903	900	1500	6.00
C904	930	1400	4.30
C905	930	1230	3.00
C906	900	930	0.30
C907	900	930	0.30
C908			
C909	1100	1500	4.00
C910	930	1500	5.30

SOLAR AND DAYLIGHT ACCESS

MIN 2 HOURS DIRECT SOLAR ACCESS

ADG DESIGN CRITERIA
4A-1 1. LIVING ROOMS AND PRIVATE OPEN SPACES OF AT LEAST 70% OF APARTMENTS IN A BUILDING RECEIVE A MIN OF 2 HOURS DIRECT SUNLIGHT BETWEEN 9AM - 3 PM AT MID WINTER

TOTAL NO. OF APARTMENT : 744
ADG REQUIREMENT FOR SOLAR ACCESS : (70%)

PROPOSED SOLAR ACCESS : 524 (70%)

COMPLIANT

NO DIRECT SUNLIGHT

ADG REQUIREMENT FOR NO DIRECT SUNLIGHT:
MAX 15% OF TOTAL NUMBER OF UNIT = 112 UNITS

PROPOSED NO DIRECT SUNLIGHT:
14.50% OF TOTAL NUMBER OF UNIT = 108 UNITS

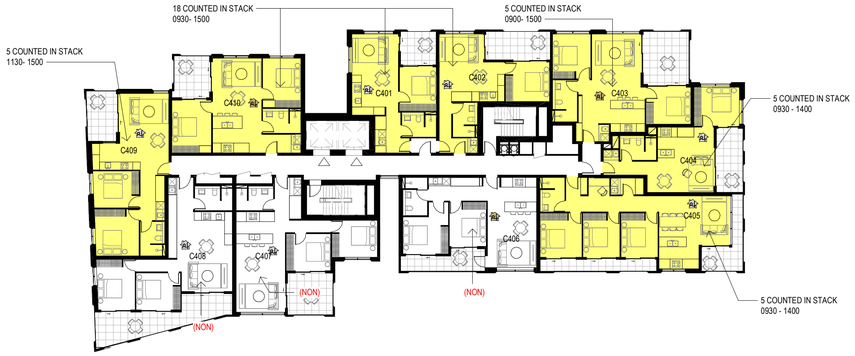
COMPLIANT

≥ 2 HRS

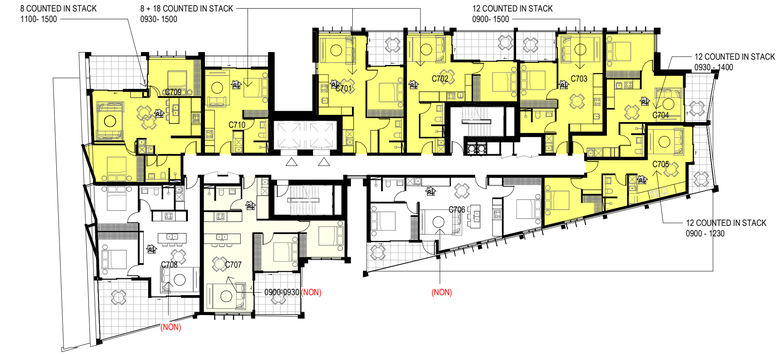
0<x< 2 HRS

TOWER C TOTAL NO. OF APARTMENT : 180
ADG REQUIREMENT FOR SOLAR ACCESS : (70%)

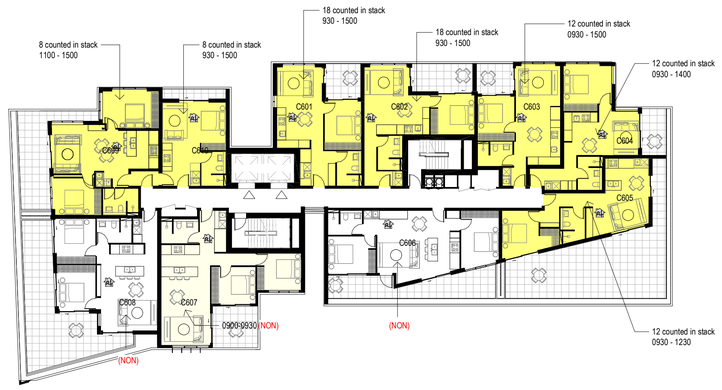
PROPOSED SOLAR ACCESS : 126 (70%)



1 TOWER C - LEVEL 4-5
1 : 250



3 TOWER C - LEVEL 7
1 : 250

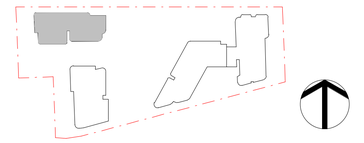


2 TOWER C - LEVEL 6
1 : 250



4 TOWER C - LEVEL 8-9
1 : 250

KEYPLAN



DA SUBMISSION

22/12/2021 12:10:22 PM

Amendments

Issue	Description	Date
-	ISSUED FOR GANSW 03	24/03/2021
1	ISSUED FOR INFORMATION	25/05/2021
A	ISSUED FOR REVIEW	08/11/2021
B	ISSUED FOR DA	22/12/2021

Amendments

Issue	Description	Date

Consultant
Structural Engineer / Civil
Level 6, 73 Miller Street, North Sydney NSW 2060
TTW

Consultant
Mechanical / Acoustic / Fire Engineer
Level 6, Building B, 207 Pacific Highway St Leonards NSW 2065
STANTEC

Consultant
Hydraulics
Level 23, 101 Miller Street, North Sydney, NSW 2060
JHA

Client
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Suite 101, 25 Angas St,
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www.groupgsa.com

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architecture interior design urban design landscape
nom architect Lisa-Maree Carrigan 7568

Project Title
Eden Street Arncliffe

Drawing Title
SOLAR COMPLIANCE TOWER C

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Plotted and checked by PDS
Verified PDS Approved LMC
Drawing Created (date) 11/10/21 Drawing Created (by) JK, SM, AR, EC, AF

Scale	Project No	Drawing No	Issue
As indicated	180319	DA 4481	B

SOLAR COMPLIANCE SCHEDULE -TOWER C LV 10-17			
ROOM NO	START HOUR	END HOUR	DIRECT SUNTIME (HOURS)
C - LEVEL 10			
C1001	930	1500	5.30
C1002	930	1500	5.30
C1003	900	1500	6.00
C1004	930	1400	4.30
C1005	900	1230	3.30
C1006	900	930	0.30
C1007	900	930	0.30
C1008	900	930	0.30
C1009	1100	1500	400.00
C1010	930	1500	5.30
C - LEVEL 11			
C1101	930	1500	5.30
C1102	930	1500	5.30
C1103	900	1500	6.00
C1104	930	1400	4.30
C1105	900	1230	3.30
C1106	900	930	0.30
C1107	900	930	0.30
C1108	900	930	0.30
C1109	1100	1500	4.00
C1110	930	1500	5.30
C - LEVEL 12			
C1201	930	1500	5.30
C1202	930	1500	5.30
C1203	900	1500	6.00
C1204	930	1400	4.30
C1205	900	1230	3.30
C1206	900	930	0.30
C1207	900	930	0.30
C1208	900	930	0.30
C1209	1100	1500	4.00
C1210	930	1500	5.30
C - LEVEL 13			
C1301	930	1500	5.30
C1302	930	1500	5.30
C1303	900	1500	6.00
C1304	930	1400	4.30
C1305	900	1230	3.30
C1306	900	930	0.30
C1307	900	930	0.30
C1308	900	930	0.30
C1309	1100	1500	4.00
C1310	930	1500	5.30
C - LEVEL 14			

SOLAR COMPLIANCE SCHEDULE -TOWER C LV 10-17			
ROOM NO	START HOUR	END HOUR	DIRECT SUNTIME (HOURS)
C1401	930	1500	5.30
C1402	930	1500	5.30
C1403	900	1500	6.00
C1404	930	1400	4.30
C1405	900	1230	3.30
C1406	900	930	0.30
C1407	900	930	0.30
C1408	900	930	0.30
C1409	1100	1500	4.00
C1410	1100	1500	4.00
C - LEVEL 15			
C1501	930	1500	5.30
C1502	930	1500	5.30
C1503	900	1500	6.00
C1504	930	1400	4.30
C1505	900	1230	3.30
C1506	900	930	0.30
C1507	900	930	0.30
C1508	900	930	0.30
C1509	1100	1500	4.00
C1510	930	1500	5.30
C - LEVEL 16			
C1601	930	1500	5.30
C1602	930	1500	5.30
C1603	900	1500	6.00
C1604	930	1400	4.30
C1605	900	1230	3.30
C1606	900	930	0.30
C1607	900	930	0.30
C1608	900	930	0.30
C1609	1100	1500	4.00
C1610	930	1500	5.30
C - LEVEL 17			
C1701	930	1500	5.30
C1702	930	1500	5.30
C1703	900	1500	6.00
C1704	930	1400	4.30
C1705	900	1230	3.30
C1706	900	930	0.30
C1707	900	930	0.30
C1708	900	930	0.30
C1709	1100	1500	4.00
C1710	930	1500	5.30

SOLAR AND DAYLIGHT ACCESS

MIN 2 HOURS DIRECT SOLAR ACCESS

ADG DESIGN CRITERIA
4A-1 1. LIVING ROOMS AND PRIVATE OPEN SPACES OF AT LEAST 70% OF APARTMENTS IN A BUILDING RECEIVE A MIN OF 2 HOURS DIRECT SUNLIGHT BETWEEN 9AM - 3 PM AT MID WINTER

TOTAL NO. OF APARTMENT : 744
ADG REQUIREMENT FOR SOLAR ACCESS : (70%)

PROPOSED SOLAR ACCESS : 524 (70%)

COMPLIANT

NO DIRECT SUNLIGHT

ADG REQUIREMENT FOR NO DIRECT SUNLIGHT:
MAX 15% OF TOTAL NUMBER OF UNIT = 112 UNITS

PROPOSED NO DIRECT SUNLIGHT:
14.50% OF TOTAL NUMBER OF UNIT = 108 UNITS

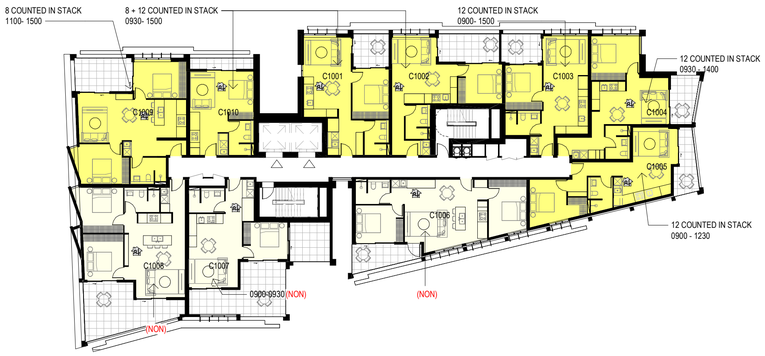
COMPLIANT

≥ 2 HRS

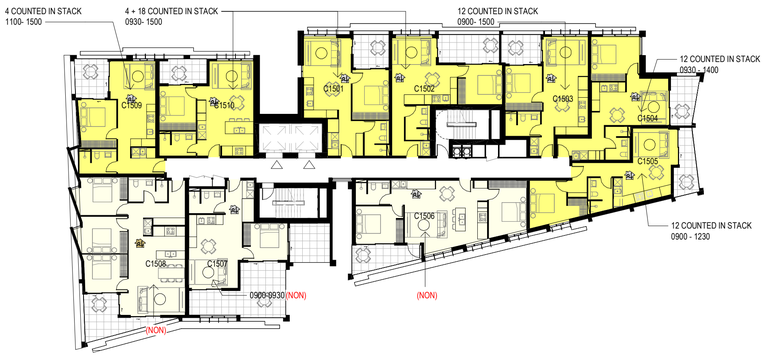
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TOWER C TOTAL NO. OF APARTMENT : 180
ADG REQUIREMENT FOR SOLAR ACCESS : (70%)

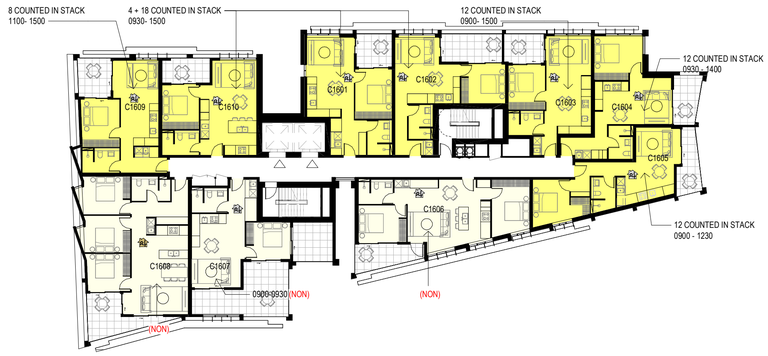
PROPOSED SOLAR ACCESS : 126 (70%)



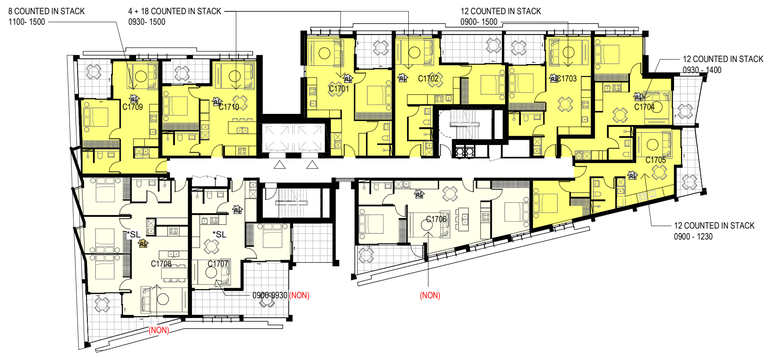
1 TOWER C - LEVEL 10-14
1 : 250



2 TOWER C - LEVEL 15
1 : 250

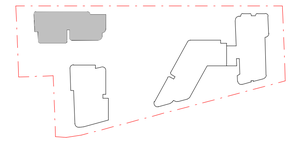


3 TOWER C - LEVEL 16
1 : 250



4 TOWER C - LEVEL 17
1 : 250

KEYPLAN



DA SUBMISSION

22/12/2021 12:10:57 PM

Amendments

Issue	Description	Date
-	ISSUED FOR GANSW 03	24/03/2021
1	ISSUED FOR INFORMATION	25/05/2021
A	ISSUED FOR REVIEW	08/11/2021
B	ISSUED FOR DA	22/12/2021

Amendments

Issue	Description	Date

Consultant
Structural Engineer / Civil
Level 6, 73 Miller Street, North Sydney
NSW 2060
TTW

Consultant
Mechanical / Acoustic / Fire Engineer
Level 6, Building B, 207 Pacific Highway
St Leonards NSW 2065
STANTEC

Consultant
Hydraulics
Level 23, 101 Miller Street, North Sydney,
NSW 2060
JHA

Client
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nom architect Lisa-Maree Carrigan 7568

Project Title
Eden Street Arncliffe

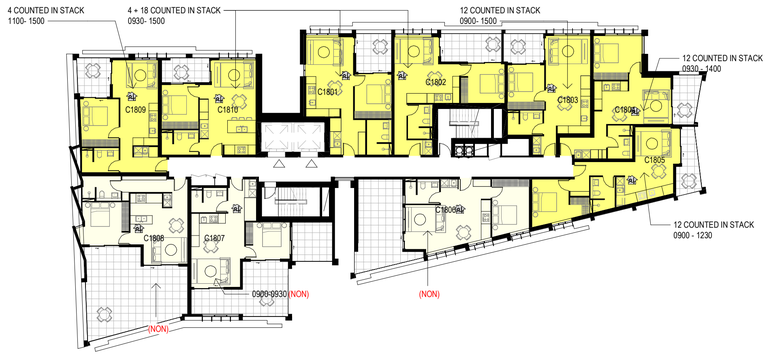
Drawing Title
SOLAR COMPLIANCE TOWER C

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Verified	PDS	Approved	LMC
Drawing Created (date)		Drawing Created (by)	JK, SM, AR, EC, AF
			11/10/21

Scale	Project No	Drawing No	Issue
As indicated	180319	DA 4482	B

SOLAR COMPLIANCE SCHEDULE -TOWER C LV 18-19			
ROOM NO	START HOUR	END HOUR	DIRECT SUNTIME (HOURS)
C - LEVEL 18			
C1801	930	1500	5.30
C1802	930	1500	5.30
C1803	900	1500	6.00
C1804	930	1400	4.30
C1805	900	1230	3.30
C1806	900	930	0.30
C1807	900	930	0.30
C1808	900	930	0.30
C1809	1100	1500	4.00
C1810	930	1500	5.30



1 TOWER C - LEVEL 18
1 : 250

SOLAR AND DAYLIGHT ACCESS

MIN 2 HOURS DIRECT SOLAR ACCESS

ADG DESIGN CRITERIA
4A-1 1. LIVING ROOMS AND PRIVATE OPEN SPACES OF AT LEAST
70% OF APARTMENTS IN A BUILDING RECEIVE A MIN OF 2 HOURS
DIRECT SUNLIGHT BETWEEN 9AM - 3 PM AT MID WINTER

TOTAL NO. OF APARTMENT : 744
ADG REQUIREMENT FOR SOLAR ACCESS : (70%)

PROPOSED SOLAR ACCESS : 524 (70%)

COMPLIANT

NO DIRECT SUNLIGHT

ADG REQUIREMENT FOR NO DIRECT SUNLIGHT:
MAX 15% OF TOTAL NUMBER OF UNIT = 112 UNITS

PROPOSED NO DIRECT SUNLIGHT:
14.50% OF TOTAL NUMBER OF UNIT = 108 UNITS

COMPLIANT

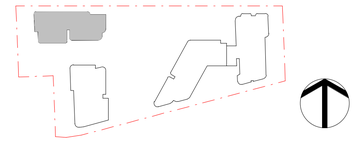
≥ 2 HRS

0<x< 2 HRS

TOWER C TOTAL NO. OF APARTMENT : 180
ADG REQUIREMENT FOR SOLAR ACCESS : (70%)

PROPOSED SOLAR ACCESS : 126 (70%)

KEYPLAN



DA SUBMISSION

Amendments

Issue	Description	Date
-	ISSUED FOR GANSW 03	24/03/2021
1	ISSUED FOR INFORMATION	25/05/2021
A	ISSUED FOR REVIEW	08/11/2021
B	ISSUED FOR DA	22/12/2021

Amendments

Issue	Description	Date

Consultant
Structural Engineer / Civil
Level 6, 73 Miller Street, North Sydney
NSW 2060
TTW

Consultant
Mechanical / Acoustic / Fire Engineer
Level 6, Building B, 207 Pacific Highway
St Leonards NSW 2065
STANTEC

Consultant
Hydraulics
Level 23, 101 Miller Street, North Sydney,
NSW 2060
JHA

Client
Billbergia Group Pty Ltd
Suite 101, 25 Angas St,
Meadowbank, NSW, 2114

Billbergia
creating communities®

GROUPGSA
Group GSA Pty Ltd ABN 76 002 113 779
Level 7, 80 William St East Sydney NSW
Australia 2011
www.groupgsa.com

T +612 9361 4144 F +612 9332 3458

architecture interior design urban design landscape
nom architect Lisa-Maree Carrigan 7568

Project Title
Eden Street Arncliffe

Drawing Title
SOLAR COMPLIANCE TOWER C

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Plotted and checked by	PDS		
Verified	PDS	Approved	LMC
Drawing Created (date)		Drawing Created (by)	JK, SM, AR, EC, AF
			11/10/21

Scale	Project No	Drawing No	Issue
As indicated	180319	DA 4483	B

22/12/2021 12:11:14 PM

SOLAR COMPLIANCE SCHEDULE -TOWER D LV UG-3			
ROOM NO	START HOUR	END HOUR	DIRECT SUNTIME (HOURS)
LEVEL 1			
D101			
D102	1030	1400	3.30
D103	1030	1330	3.00
D104	1030	1400	3.30
D105	1100	1330	2.30
D106	1200	1330	2.00
D107			
D108			
TH001	1000	1400	4.00
TH002	1000	1400	4.00
LEVEL 2			
D201			
D202	945	1145	2.00
D203	1015	1215	2.00
D204	1030	1400	3.30
D205	1030	1400	3.30
D206	1030	1330	3.00
D207	1100	1330	2.30
D208	1200	1330	2.00
D209			
D210			
LEVEL 3			
D301			
D302	945	1145	2.00
D303	1030	1230	2.00
D304	1030	1400	3.30
D305	1030	1400	3.30
D306	1030	1330	3.00
D307	1100	1330	2.30
D308	1200	1330	2.00
D309			
D310			
UPPER GROUND LEVEL			
D001	1115	1315	2.00
D002	1045	1245	2.00
D003	1030	1230	2.00
D004	1000	1200	2.30
TH001	1030	1330	3.00
TH002	1000	1330	3.30

SOLAR AND DAYLIGHT ACCESS

MIN 2 HOURS DIRECT SOLAR ACCESS

ADG DESIGN CRITERIA
4A-1 1. LIVING ROOMS AND PRIVATE OPEN SPACES OF AT LEAST 70% OF APARTMENTS IN A BUILDING RECEIVE A MIN OF 2 HOURS DIRECT SUNLIGHT BETWEEN 9AM - 3 PM AT MID WINTER

TOTAL NO. OF APARTMENT : 744
ADG REQUIREMENT FOR SOLAR ACCESS : (70%)

PROPOSED SOLAR ACCESS : 523 (70%)

COMPLIANT

NO DIRECT SUNLIGHT

ADG REQUIREMENT FOR NO DIRECT SUNLIGHT:
MAX 15% OF TOTAL NUMBER OF UNIT = 112 UNITS

PROPOSED NO DIRECT SUNLIGHT:
14.50% OF TOTAL NUMBER OF UNIT = 108 UNITS

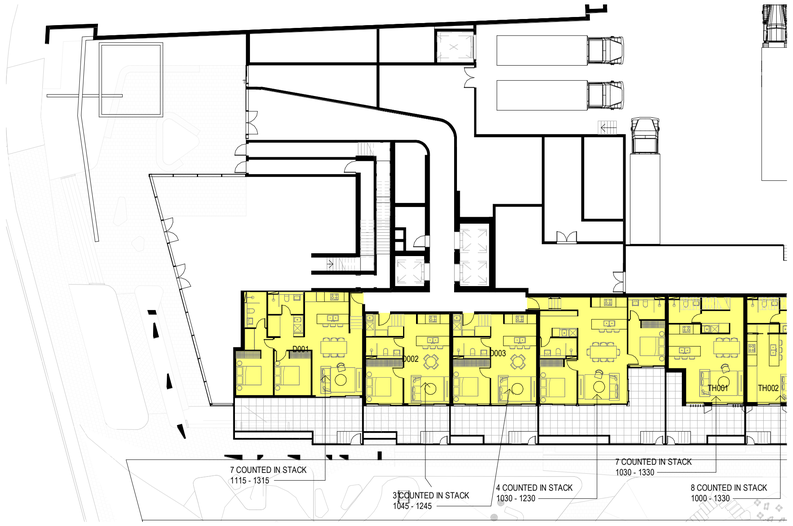
COMPLIANT

≥ 2 HRS

0<x< 2 HRS

TOWER D TOTAL NO. OF APARTMENT : 176
ADG REQUIREMENT FOR SOLAR ACCESS : (70%)

PROPOSED SOLAR ACCESS : 123 (70%)



1 TOWER D - UPPER GROUND
1 : 250



3 TOWER D - LEVEL 2
1 : 250

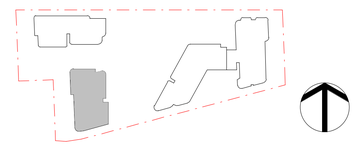


2 TOWER D - LEVEL 1
1 : 250



4 TOWER D - LEVEL 3
1 : 250

KEYPLAN



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Plotted and checked by PDS

Verified PDS Approved LMC

Drawing Created (date) 11/10/21 Drawing Created (by) JK, SM, AR, EC, AF

Scale	Project No	Drawing No	Issue
As indicated	180319	DA 4490	B

Amendments

Issue	Description	Date
-	ISSUED FOR GANSW 03	24/03/2021
1	ISSUED FOR INFORMATION	25/05/2021
A	ISSUED FOR REVIEW	08/11/2021
B	ISSUED FOR DA	22/12/2021

Amendments

Issue	Description	Date

Consultant
Structural Engineer / Civil
Level 6, 73 Miller Street, North Sydney NSW 2060
TTW

Consultant
Mechanical / Acoustic / Fire Engineer
Level 6, Building B, 207 Pacific Highway St Leonards NSW 2065
STANTEC

Consultant
Hydraulics
Level 23, 101 Miller Street, North Sydney, NSW 2060
JHA

Client
Billbergia Group Pty Ltd
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architecture interior design urban design landscape
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SOLAR COMPLIANCE TOWER D

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SOLAR COMPLIANCE SCHEDULE - TOWER D LV 4-9			
ROOM NO	START HOUR	END HOUR	DIRECT SUNTIME (HOURS)
LEVEL 4			
D401			
D402	945	1145	2.00
D403	1000	1230	2.30
D404	1030	1400	3.30
D405	1030	1400	3.30
D406	1030	1330	3.00
D407	1100	1330	2.30
D408	1200	1330	1.30
D409	900	930	0.30
D410			
LEVEL 5			
D501			
D502	945	1145	2.00
D503	1000	1230	2.30
D504	1030	1400	3.30
D505	1030	1400	3.30
D506	1030	1330	3.00
D507	1100	1330	2.30
D508	1200	1330	1.30
D509	900	930	0.30
D510			
LEVEL 6			
D601			
D602	1000	1300	3.00
D603	1030	1330	3.00
D604	1100	1330	2.30
D605	1130	1330	2.00
D606	1130	1330	2.00
D607	1200	1330	1.30
D608	900	930	0.30
D609			
LEVEL 7			
D701			
D702	1030	1300	2.30
D703	1030	1330	3.00
D704	1100	1330	2.30
D705	1130	1330	2.00
D706	1130	1330	2.00
D707	1200	1330	1.30
D708	900	930	0.30
D709			
LEVEL 8			
D801			
D802	1030	1300	2.30
D803	1030	1330	3.00
D804	1100	1330	2.30
D805	1100	1330	2.30
D806	1130	1330	2.00
D807	1200	1330	1.30
D808	900	930	0.30
D809			

SOLAR COMPLIANCE SCHEDULE - TOWER D LV 4-9			
ROOM NO	START HOUR	END HOUR	DIRECT SUNTIME (HOURS)
LEVEL 9			
D901			
D902	1030	1300	2.30
D903	1030	1330	3.00
D904	1100	1330	2.30
D905	1100	1330	2.30
D906	1130	1330	2.00
D907	1200	1330	1.30
D908	900	930	0.30
D909			

SOLAR AND DAYLIGHT ACCESS

MIN 2 HOURS DIRECT SOLAR ACCESS

ADG DESIGN CRITERIA
4A-1 1. LIVING ROOMS AND PRIVATE OPEN SPACES OF AT LEAST 70% OF APARTMENTS IN A BUILDING RECEIVE A MIN OF 2 HOURS DIRECT SUNLIGHT BETWEEN 9AM - 3 PM AT MID WINTER

TOTAL NO. OF APARTMENT : 744
ADG REQUIREMENT FOR SOLAR ACCESS : (70%)

PROPOSED SOLAR ACCESS : 523 (70%)

COMPLIANT

NO DIRECT SUNLIGHT

ADG REQUIREMENT FOR NO DIRECT SUNLIGHT:
MAX 15% OF TOTAL NUMBER OF UNIT = 112 UNITS

PROPOSED NO DIRECT SUNLIGHT:
14.50% OF TOTAL NUMBER OF UNIT = 108 UNITS

COMPLIANT

≥ 2 HRS

0<x< 2 HRS

TOWER D TOTAL NO. OF APARTMENT : 176
ADG REQUIREMENT FOR SOLAR ACCESS : (70%)

PROPOSED SOLAR ACCESS : 123 (70%)



1 TOWER D - LEVEL 4-5
1 : 250



2 TOWER D - LEVEL 6
1 : 250

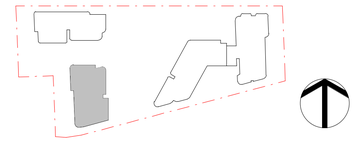


3 TOWER D - LEVEL 7
1 : 250



4 TOWER D - LEVEL 8-9
1 : 250

KEYPLAN



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Amendments		
Issue	Description	Date
-	ISSUED FOR GANSW 03	24/03/2021
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Structural Engineer / Civil
Level 6, 73 Miller Street, North Sydney NSW 2060
TTW

Consultant
Mechanical / Acoustic / Fire Engineer
Level 6, Building B, 207 Pacific Highway St Leonards NSW 2065
STANTEC

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Hydraulics
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architecture interior design urban design landscape
nom architect Lisa-Maree Carrigan 7568

Project Title
Eden Street Arncliffe

Drawing Title
SOLAR COMPLIANCE TOWER D

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			11/10/21

Scale	Project No	Drawing No	Issue
As indicated	180319	DA 4491	B

SOLAR COMPLIANCE SCHEDULE - TOWER D LV 10-17			
ROOM NO	START HOUR	END HOUR	DIRECT SUNTIME (HOURS)
LEVEL 10			
D1001			
D1002	1030	1300	2.30
D1003	1030	1330	3.00
D1004	1030	1330	3.00
D1005	1100	1330	2.30
D1006	1100	1330	2.30
D1007	1200	1330	1.30
D1008	900	930	0.30
D1009			
LEVEL 11			
D1101			
D1102	1030	1300	2.30
D1103	1030	1330	3.00
D1104	1030	1330	3.00
D1105	1030	1330	3.00
D1106	1030	1330	3.00
D1107	1200	1330	1.30
D1108	900	930	0.30
D1109			
LEVEL 12			
D1201			
D1202	1030	1300	2.30
D1203	1000	1330	3.30
D1204	1030	1330	3.00
D1205	1030	1330	3.00
D1206	1030	1330	3.00
D1207	1100	1330	3.30
D1208	900	930	0.30
D1209			
LEVEL 13			
D1301			
D1302	1030	1300	2.30
D1303	1000	1330	3.30
D1304	1000	1330	3.30
D1305	1030	1330	3.00
D1306	1030	1330	3.00
D1307	1100	1330	2.30
D1308	900	930	0.30
D1309			
LEVEL 14			
D1401			
D1402	1030	1300	2.30
D1403	930	1330	4.00
D1404	1000	1330	3.30
D1405	1000	1330	3.30
D1406	1030	1330	3.00
D1407	1100	1330	2.30
D1408	900	930	0.30
D1409			
LEVEL 15			
D1501			
D1502	1030	1300	2.30
D1503	930	1330	4.00
D1504	930	1330	4.00
D1505	1000	1330	3.30
D1506	1030	1330	3.00
D1507	1030	1330	3.00
D1508	900	930	0.30
D1509			
LEVEL 16			
D1601			
D1602	1030	1330	3.00
D1603	900	1330	4.30
D1604	930	1330	4.00
D1605	930	1330	4.00
D1606	1000	1330	3.30
D1607	1000	1330	3.30
D1608	900	930	0.30
D1609			
LEVEL 17			
D1701			
D1702	1030	1430	4.00
D1703	900	1330	4.30
D1704	900	1330	4.30
D1705	930	1330	4.00
D1706	930	1330	4.00
D1707	900	1330	4.30
D1708	900	930	0.30
D1709			

SOLAR AND DAYLIGHT ACCESS

MIN 2 HOURS DIRECT SOLAR ACCESS

ADG DESIGN CRITERIA
4A-1 1. LIVING ROOMS AND PRIVATE OPEN SPACES OF AT LEAST
70% OF APARTMENTS IN A BUILDING RECEIVE A MIN OF 2 HOURS
DIRECT SUNLIGHT BETWEEN 9AM - 3 PM AT MID WINTER

TOTAL NO. OF APARTMENT : 744
ADG REQUIREMENT FOR SOLAR ACCESS : (70%)

PROPOSED SOLAR ACCESS : 523 (70%)

COMPLIANT

NO DIRECT SUNLIGHT

ADG REQUIREMENT FOR NO DIRECT SUNLIGHT:
MAX 15% OF TOTAL NUMBER OF UNIT = 112 UNITS

PROPOSED NO DIRECT SUNLIGHT:
14.50% OF TOTAL NUMBER OF UNIT = 108 UNITS

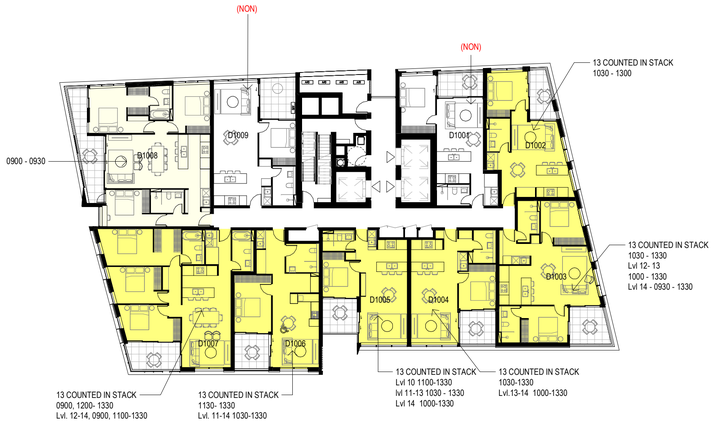
COMPLIANT

≥ 2 HRS

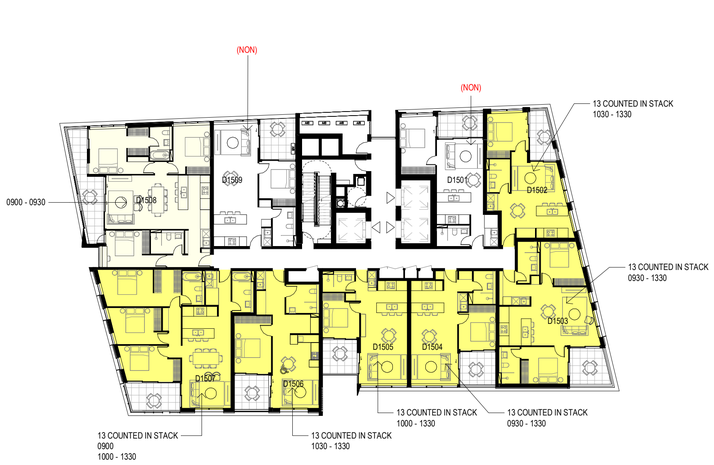
0<x< 2 HRS

TOWER D TOTAL NO. OF APARTMENT : 176
ADG REQUIREMENT FOR SOLAR ACCESS : (70%)

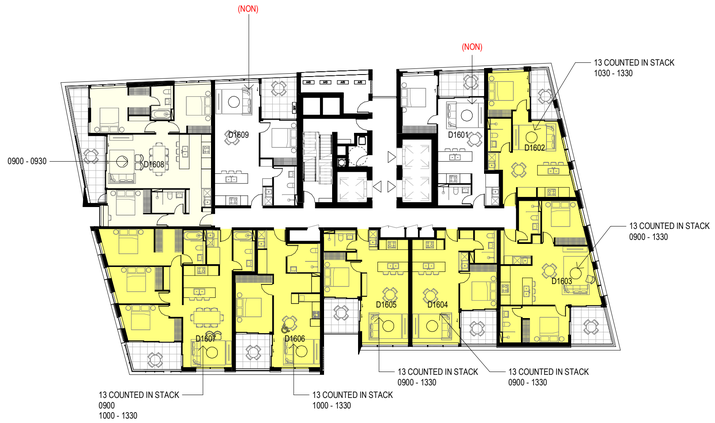
PROPOSED SOLAR ACCESS : 123 (70%)



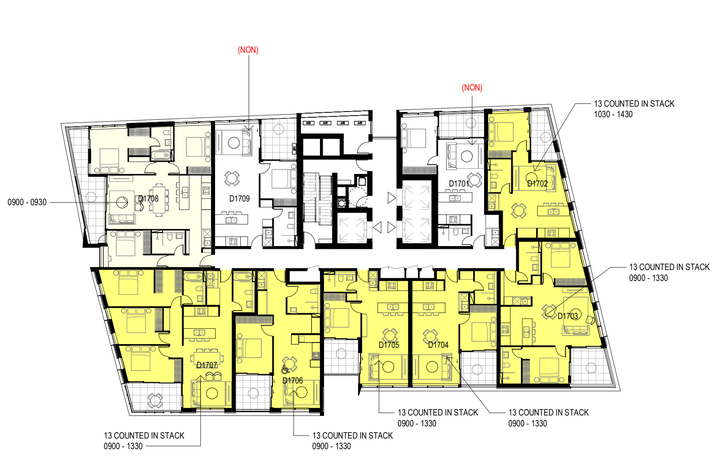
1 TOWER D - LEVEL 10-14
1 : 250



2 TOWER D - LEVEL 15
1 : 250

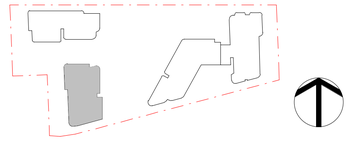


3 TOWER D - LEVEL 16
1 : 250



4 TOWER D - LEVEL 17
1 : 250

KEYPLAN



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22/12/2021 12:13:02 PM

Plotted and checked by PDS

Verified PDS Approved LMC

Drawing Created (date) 11/10/21 Drawing Created (by) JK, SM, AR, EC, AF

Scale	Project No	Drawing No	Issue
As indicated	180319	DA 4492	B

Amendments

Issue	Description	Date
-	ISSUED FOR GANSW 03	24/03/2021
1	ISSUED FOR INFORMATION	25/05/2021
A	ISSUED FOR REVIEW	08/11/2021
B	ISSUED FOR DA	22/12/2021

Amendments

Issue	Description	Date

Consultant
Structural Engineer / Civil
Level 6, 73 Miller Street, North Sydney
NSW 2060
TTW

Consultant
Mechanical / Acoustic / Fire Engineer
Level 6, Building B, 207 Pacific Highway
St Leonards NSW 2065
STANTEC

Consultant
Hydraulics
Level 23, 101 Miller Street, North Sydney,
NSW 2060
JHA

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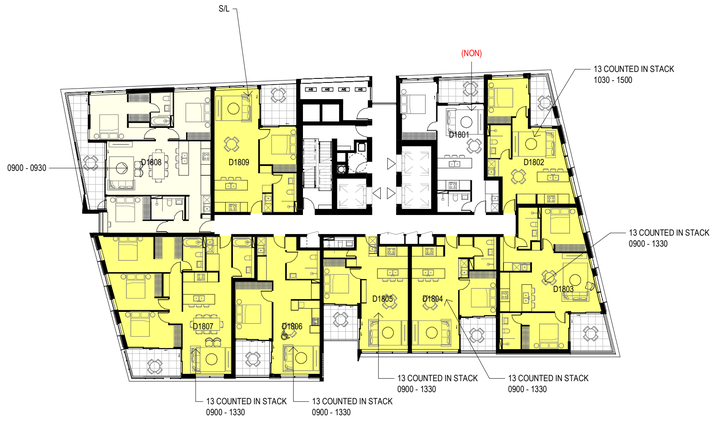
architecture interior design urban design landscape
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Project Title
Eden Street Arncliffe

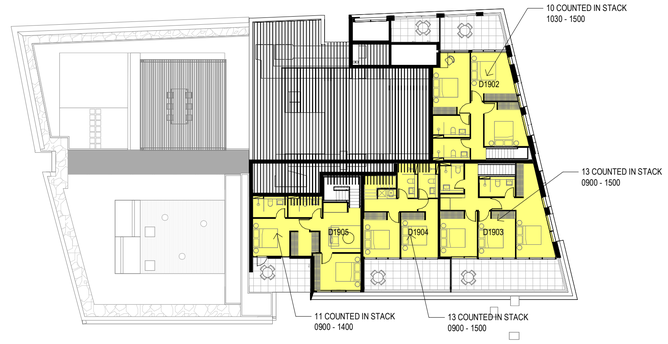
Drawing Title
SOLAR COMPLIANCE TOWER D

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SOLAR COMPLIANCE SCHEDULE - TOWER D LV 18-20			
ROOM NO	START HOUR	END HOUR	DIRECT SUNTIME (HOURS)
LEVEL 18			
D1801			
D1802	1030	1500	4.30
D1803	900	1330	4.30
D1804	900	1330	4.30
D1805	900	1330	4.30
D1806	900	1330	4.30
D1807	900	1330	4.30
D1808	900	930	0.30
D1809	900	1200	3.00
LEVEL 19			
D1901	900	1500	6.00
D1902	1030	1500	4.50
D1903	900	1500	6.00
D1904	900	1500	6.00
D1905	900	1400	5.00
LEVEL 20			
D1902	1030	1500	4.30
D1903	900	1500	6.00
D1904	900	1500	6.00
D1905	900	1400	5.00



1 TOWER D - LEVEL 18
1 : 250



3 TOWER D - LEVEL 20
1 : 250

SOLAR AND DAYLIGHT ACCESS

MIN 2 HOURS DIRECT SOLAR ACCESS

ADG DESIGN CRITERIA
4A-1 1. LIVING ROOMS AND PRIVATE OPEN SPACES OF AT LEAST
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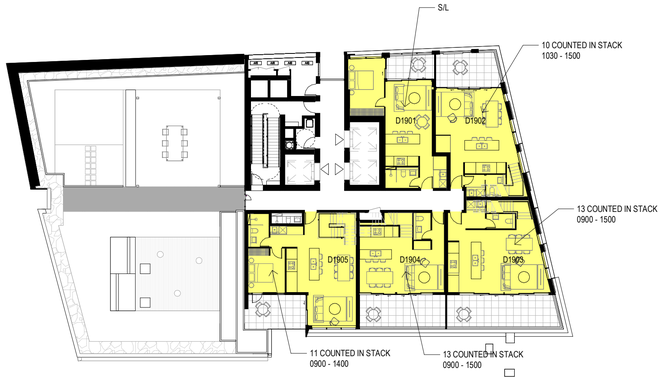
COMPLIANT

≥ 2 HRS

0<x< 2 HRS

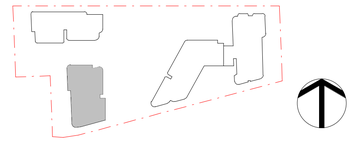
TOWER D TOTAL NO. OF APARTMENT : 176
ADG REQUIREMENT FOR SOLAR ACCESS : (70%)

PROPOSED SOLAR ACCESS : 123 (70%)



2 TOWER D - LEVEL 19
1 : 250

KEYPLAN



Amendments

Issue	Description	Date
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Drawing Title
SOLAR COMPLIANCE TOWER D

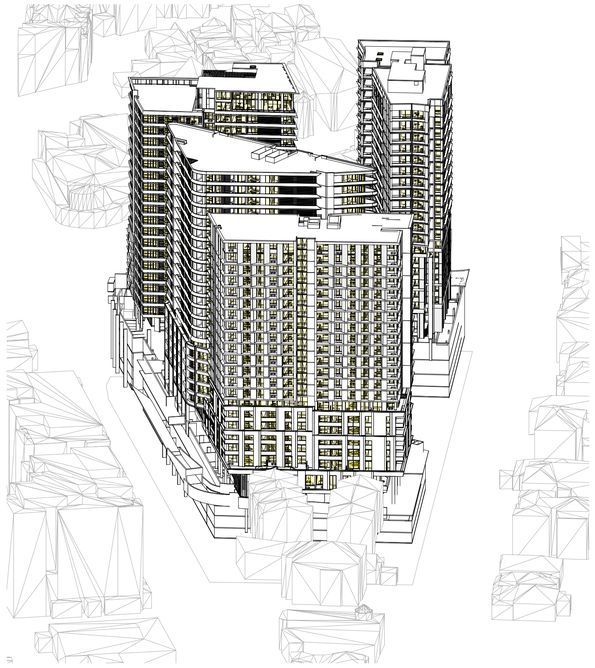
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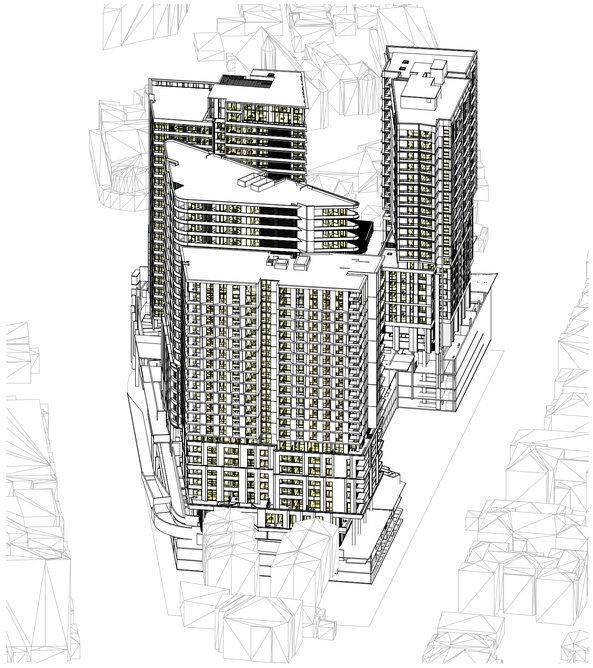
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Verified	PDS	Approved	LMC
Drawing Created (date)		Drawing Created (by)	JK, SM, AR, EC, AF
			11/10/21

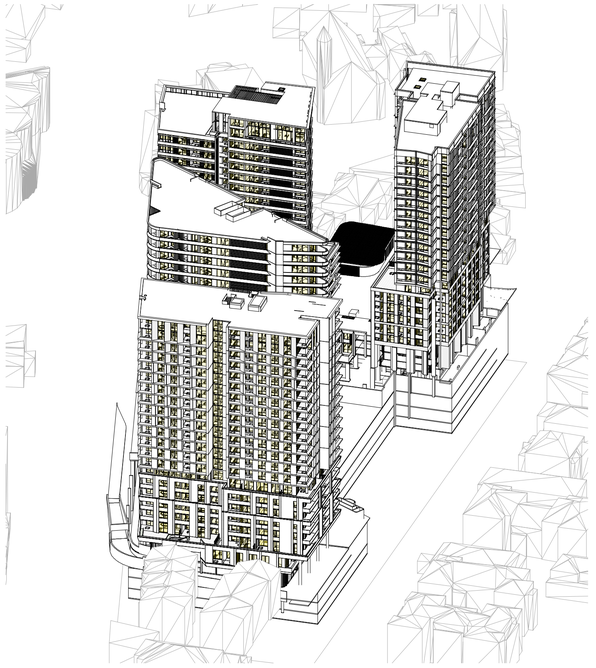
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As indicated	180319	DA 4493	B



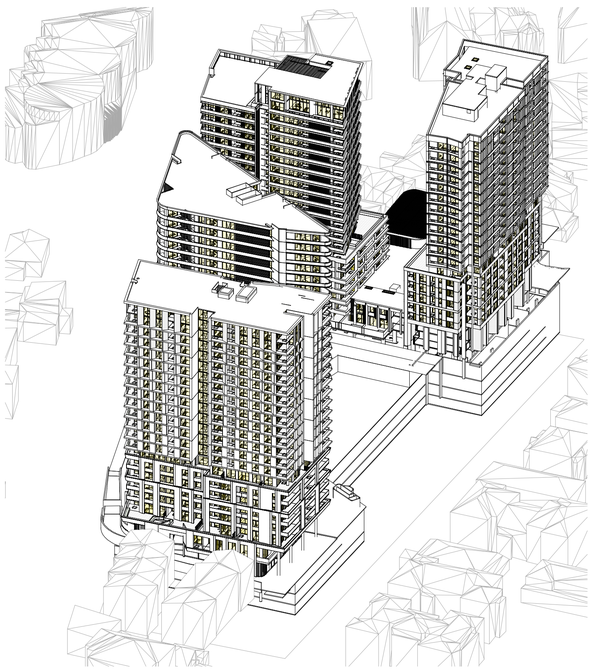
1 21 JUNE 9 AM



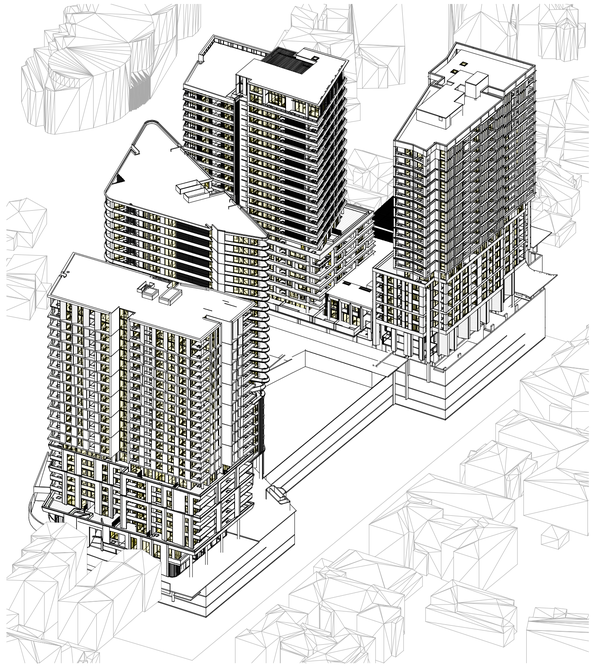
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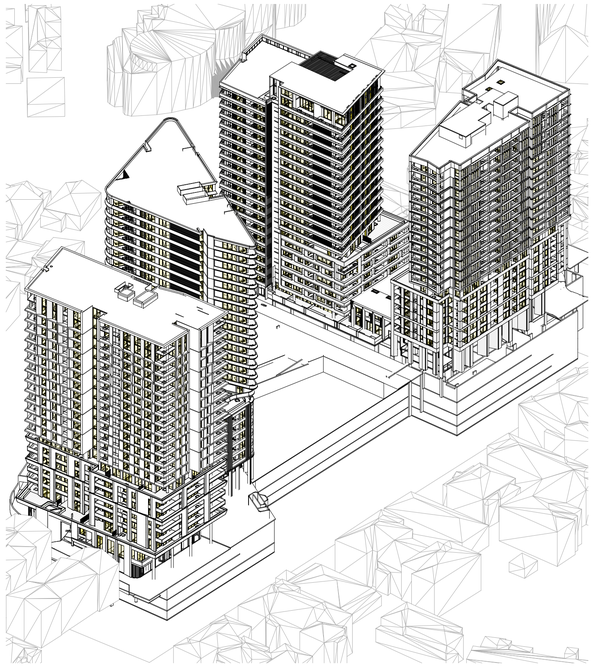
3 21 JUNE 10 AM



4 21 JUNE 10.30 AM



5 21 JUNE 11 AM



6 21 JUNE 11.30 AM



7 21 JUNE 12 PM

Amendments

Issue	Description	Date
-	GANSW 2	19/10/2020
1	ISSUED FOR PRE DA	29/10/2020
2	ISSUED FOR GANSW 03	24/03/2021
3	ISSUED FOR INFORMATION	25/05/2021
A	ISSUED FOR DA	28/05/2021
B	ISSUED FOR DA	22/12/2021

Amendments

Issue	Description	Date

Consultant

Structural Engineer / Civil
Level 6, 73 Miller Street, North Sydney
NSW 2060
TTW

Consultant

Mechanical / Acoustic / Fire Engineer
Level 6, Building B, 207 Pacific Highway
St Leonards NSW 2065
STANTEC

Consultant

Hydraulics
Level 23, 101 Miller Street, North Sydney,
NSW 2060
JHA

Client

Billbergia Group Pty Ltd
Suite 101, 25 Angas St,
Meadowbank, NSW, 2114

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www.groupgsa.com

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architecture interior design urban design landscape
nom architect Lisa-Maree Carrigan 7568

Project Title

Eden Street Arncliffe

Drawing Title

SUN EYE DIAGRAM - 1

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Drawing Created (date)		Drawing Created (by)	JK, SM, AR, EC, AF
			09/02/20
Scale	Project No	Drawing No	Issue
	180319	DA 4500	B



8 21 JUNE 12.30 PM



9 21 JUNE 1 PM



10 21 JUNE 1.30 PM



11 21 JUNE 2 PM



12 21 JUNE 2.30 PM



13 21 JUNE 3 PM

Amendments

Issue	Description	Date
-	GANSW 2	19/10/2020
1	ISSUED FOR PRE DA	29/10/2020
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3	ISSUED FOR INFORMATION	25/05/2021
A	ISSUED FOR DA	28/05/2021
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Amendments

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Consultant

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NSW 2060
TTW

Consultant

Mechanical / Acoustic / Fire Engineer
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St Leonards NSW 2065
STANTEC

Consultant

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NSW 2060
JHA

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architecture interior design urban design landscape
nom architect Lisa-Maree Carrigan 7568

Project Title

Eden Street Arncliffe

Drawing Title

SUN EYE DIAGRAM - 2

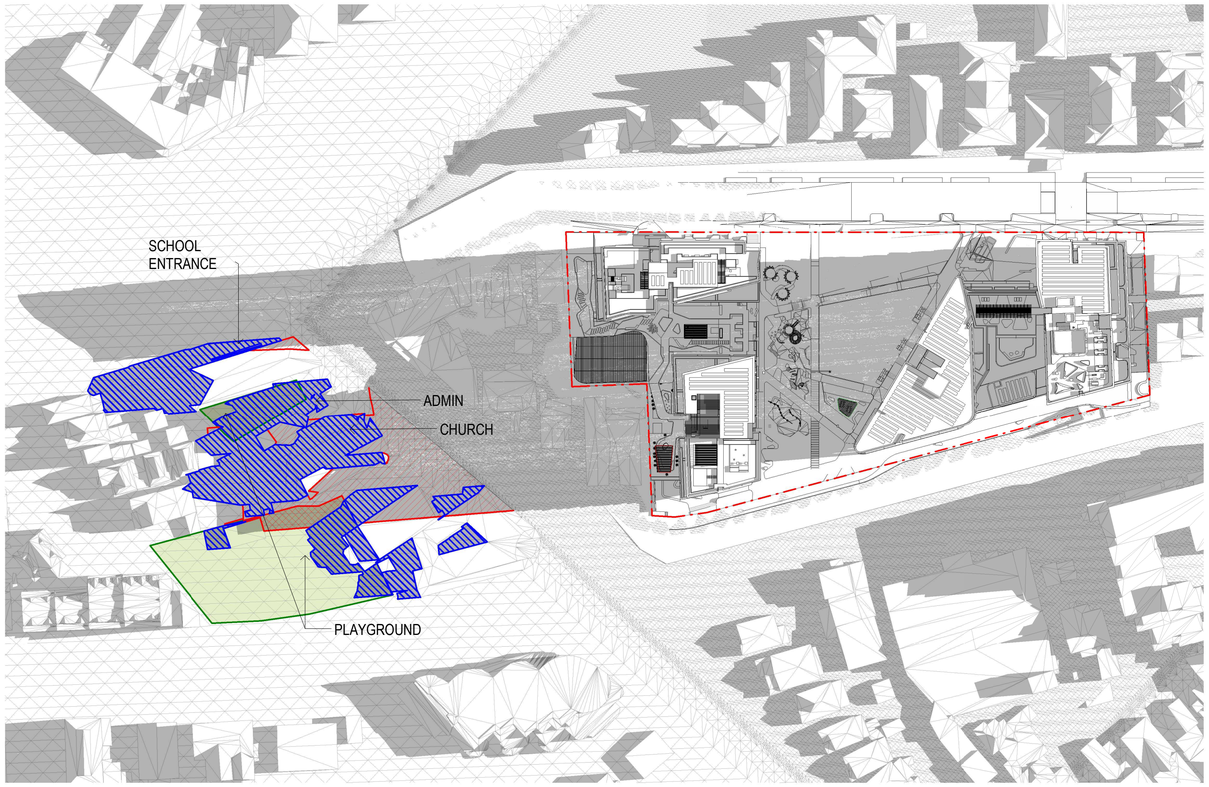
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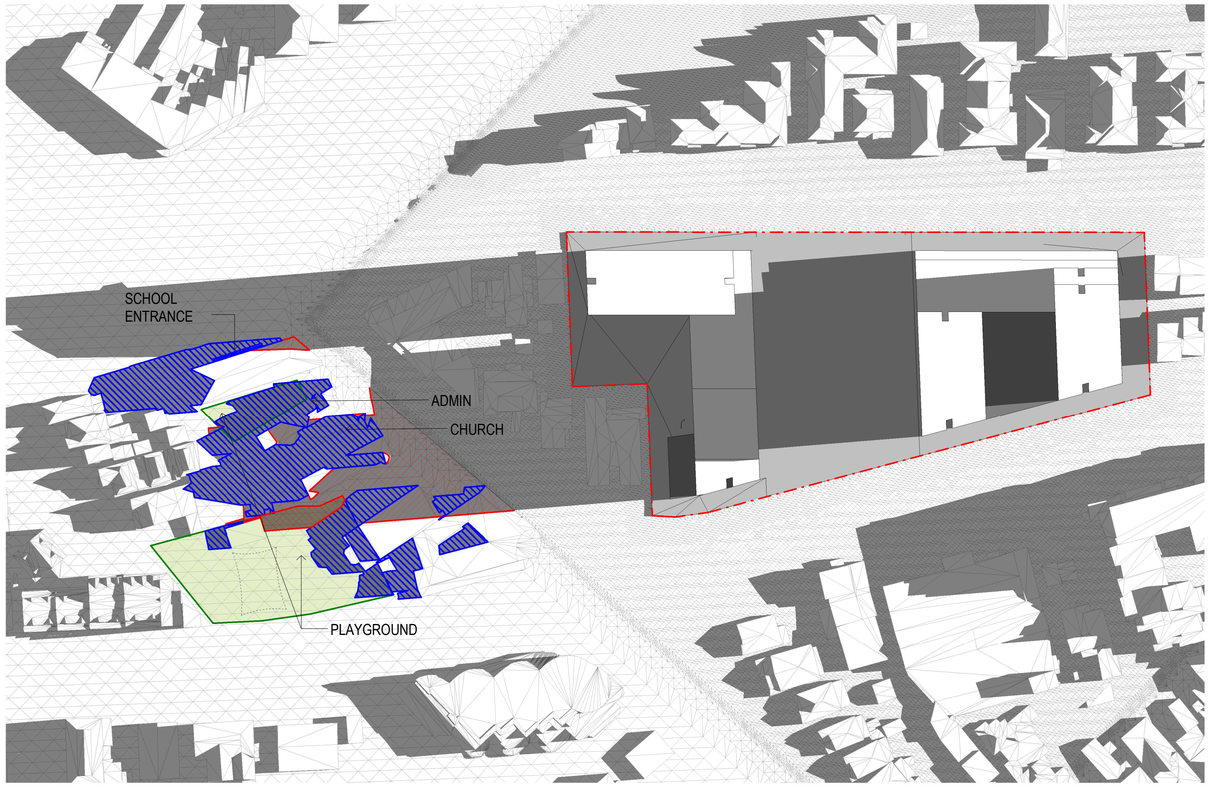
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Drawing Created (date)		Drawing Created (by)	JK, SM, AR, EC, AF
			09/10/20

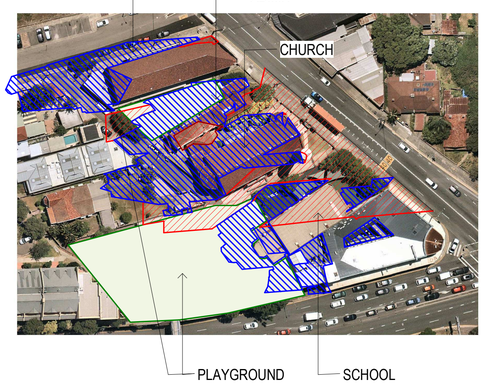
Scale	Project No	Drawing No	Issue
	180319	DA 4501	B



1 21 JUNE 9AM - PROPOSED
1 : 1000



2 21 JUNE 9AM - DCP SCHEME
1 : 1000



Existing buildings self shadow

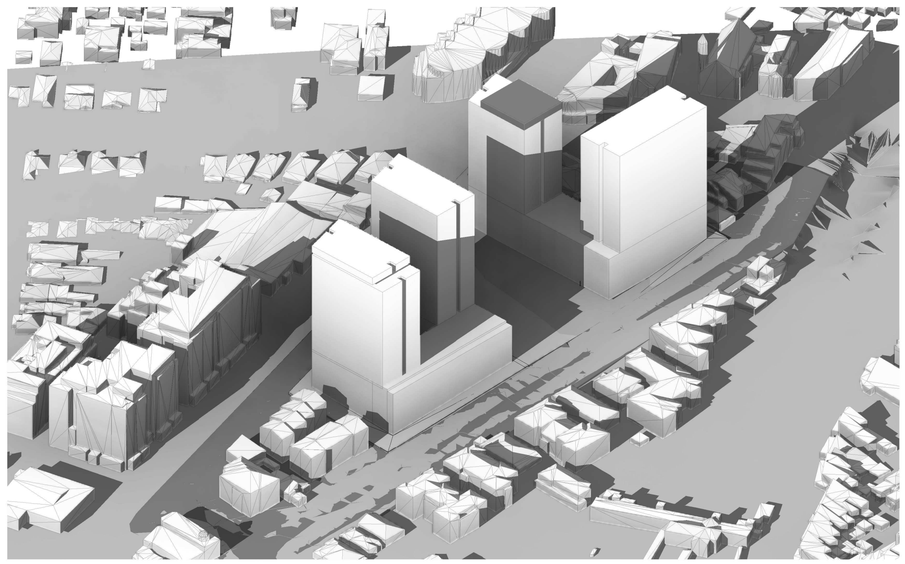
Proposed Towers' shadow

School's playgrounds

School playground = 1884.5 m^2
Existing buildings self shadow's area on playground = 369.3 m^2 (19.6%)
Additional shadow area from proposed towers = 159 m^2 (8.4%)
Additional shadow area from DCP scheme = 155 m^2 (8.2%)
Total shadow area with proposed towers = 369.3+159 = 528.3 m^2 (28%)
Total shadow area with DCP scheme = 369.3+155 = 524.3 m^2 (27.8%)



3 21 JUNE 9AM - PROPOSED



4 21 JUNE 9AM - DCP SCHEME

Amendments

Issue	Description	Date
-	GANSW 2	19/10/2020
1	ISSUED FOR PRE DA	29/10/2020
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B	ISSUED FOR DA	04/01/2022

Amendments

Issue	Description	Date

Consultant
Structural Engineer / Civil
Level 6, 73 Miller Street, North Sydney
NSW 2060
TTW

Consultant
Mechanical / Acoustic / Fire Engineer
Level 6, Building B, 207 Pacific Highway
St Leonards NSW 2065
STANTEC

Consultant
Hydraulics
Level 23, 101 Miller Street, North Sydney,
NSW 2060
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architecture interior design urban design landscape
nom architect Lisa-Maree Carrigan 7568

Project Title
Eden Street Arncliffe

Drawing Title
PROPOSED SHADOW - 21 JUNE 9AM

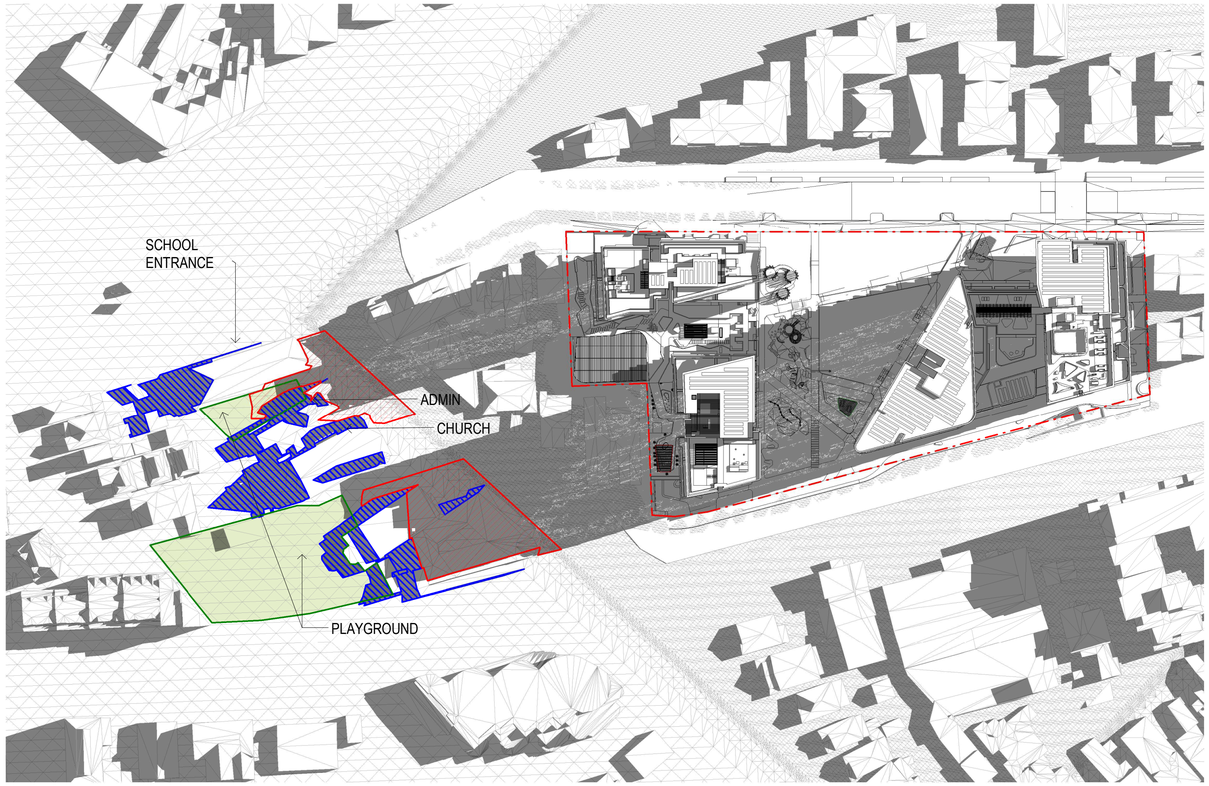
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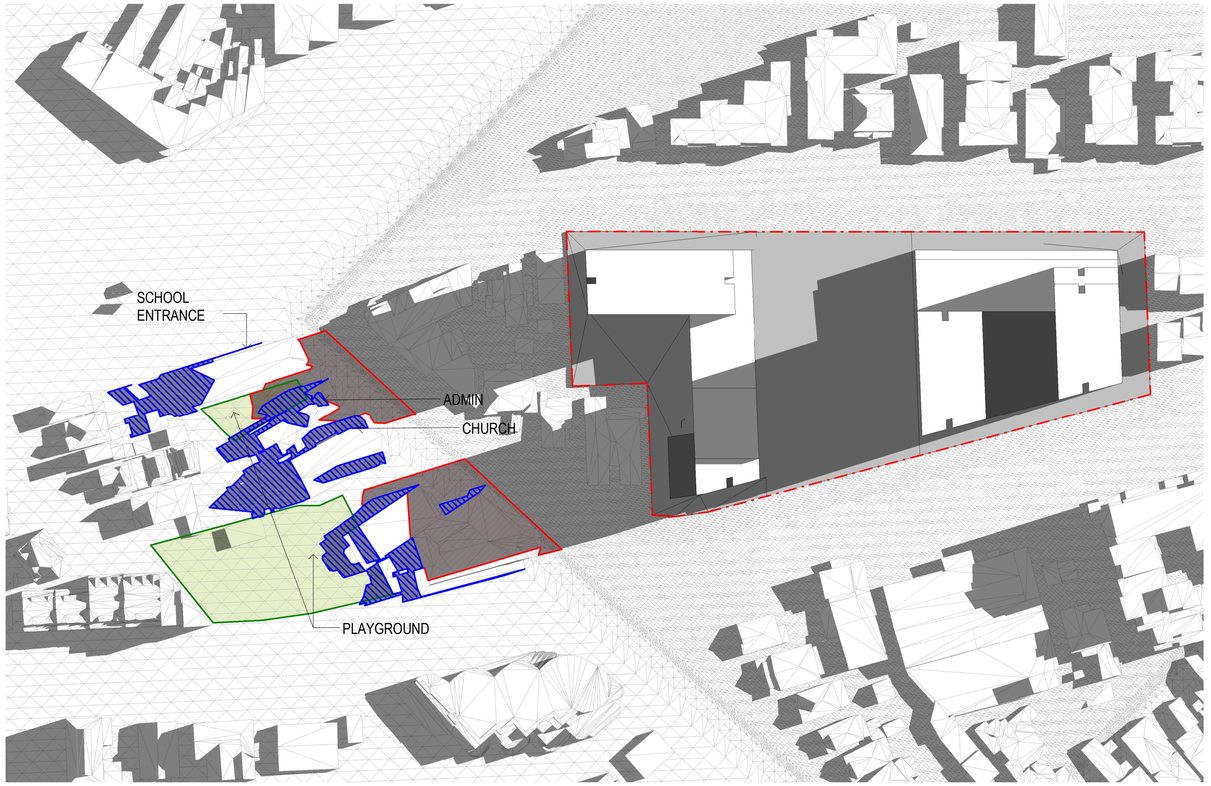
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Verified	PDS	Approved	LMC
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			12/22/21

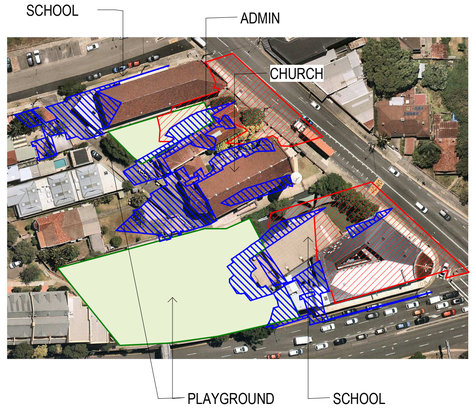
Scale	Project No	Drawing No	Issue
1 : 1000	180319	DA 4550	B



1 21 JUNE 10AM - PROPOSED
1 : 1000



2 21 JUNE 10AM - DCP SCHEME
1 : 1000



Existing buildings self shadow

Proposed Towers' shadow

School's playgrounds

School playground = 1884.5 m^2
Existing buildings self shadow's area on playground = 230.8 m^2 (12.2%)
Additional shadow area from proposed towers = 0 m^2 (0.0%)
Additional shadow area from DCP scheme = 0.0 m^2 (0.0%)



3 21 JUNE 10AM - PROPOSED



4 21 JUNE 10AM - DCP SCHEME

Amendments

Issue	Description	Date
-	GANSW 2	19/10/2020
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B	ISSUED FOR DA	04/01/2022

Amendments

Issue	Description	Date

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NSW 2060
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Consultant
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St Leonards NSW 2065
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Consultant
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architecture interior design urban design landscape
nom architect Lisa-Maree Carrigan 7568

Project Title
Eden Street Arncliffe

Drawing Title
PROPOSED SHADOW - 21 JUNE 10AM

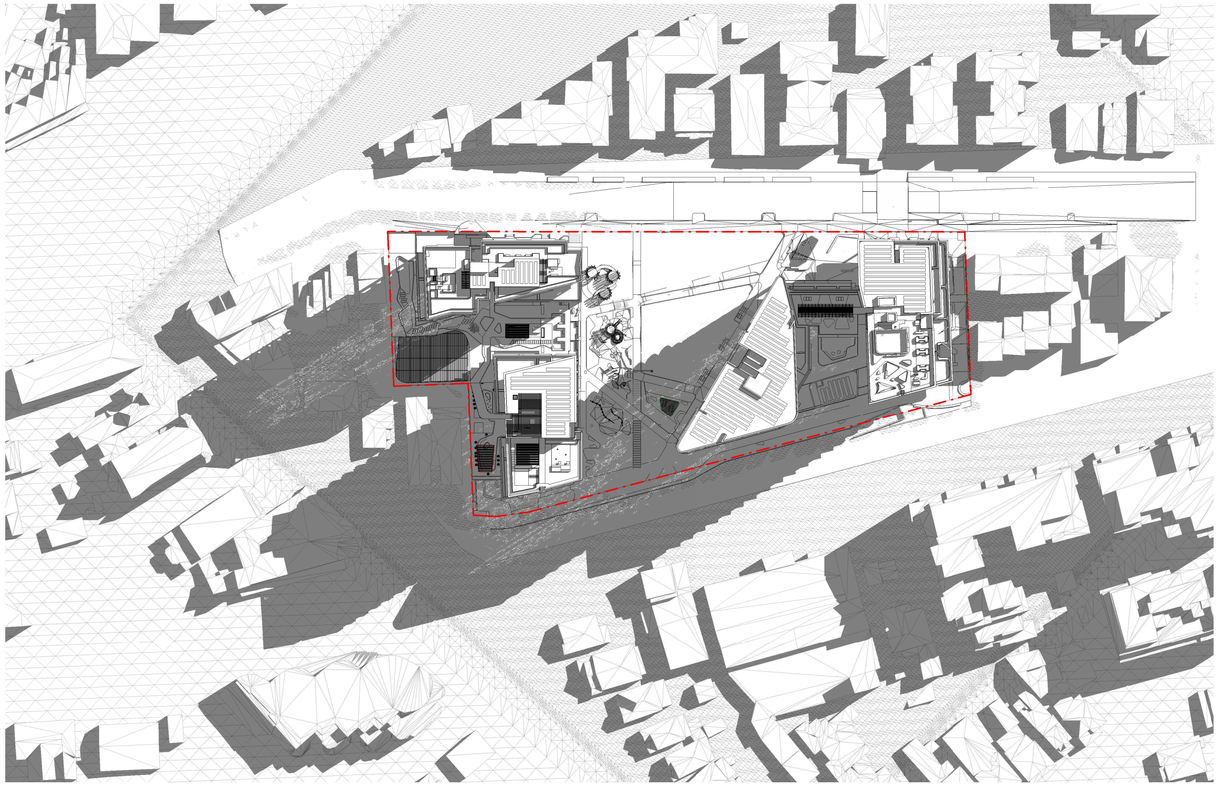
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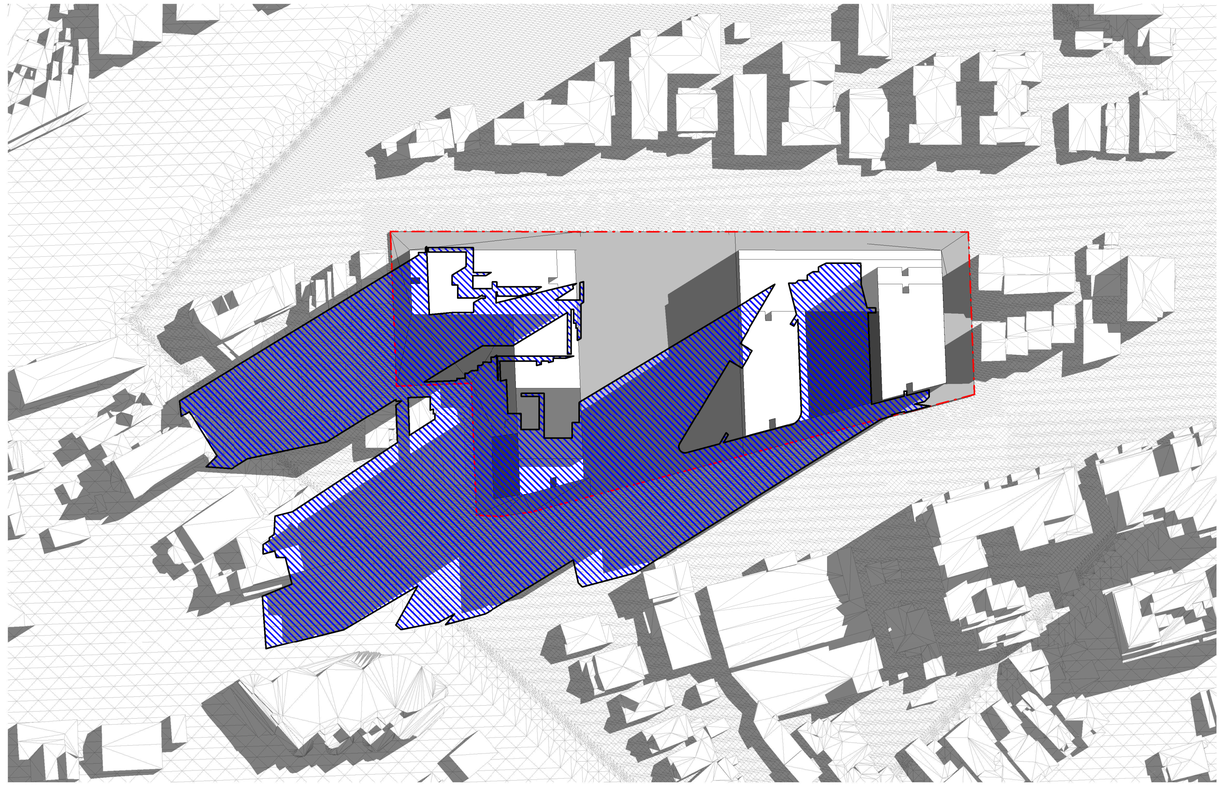
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07/01/2022 9:34:49 AM



1 21 JUNE 11AM - PROPOSED
1 : 1000



2 21 JUNE 11AM - DCP
1 : 1000



3 21 JUNE 11AM - PROPOSED



4 21 JUNE 11AM - DCP SCHEME

PROPOSED SHADOW

Amendments

Issue	Description	Date
-	GANSW 2	19/10/2020
1	ISSUED FOR PRE DA	29/10/2020
2	ISSUED FOR GANSW 03	24/03/2021
A	ISSUED FOR DA	28/05/2021
B	ISSUED FOR DA	04/01/2022

Amendments

Issue	Description	Date

Consultant
Structural Engineer / Civil
Level 6, 73 Miller Street, North Sydney
NSW 2060
TTW

Consultant
Mechanical / Acoustic / Fire Engineer
Level 6, Building B, 207 Pacific Highway
St Leonards NSW 2065
STANTEC

Consultant
Hydraulics
Level 23, 101 Miller Street, North Sydney,
NSW 2060
JHA

Client
Billbergia Group Pty Ltd
Suite 101, 25 Angas St,
Meadowbank, NSW, 2114

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architecture interior design urban design landscape
nom architect Lisa-Maree Carrigan 7568

Project Title
Eden Street Arncliffe

Drawing Title
PROPOSED SHADOW - 21 JUNE 11AM

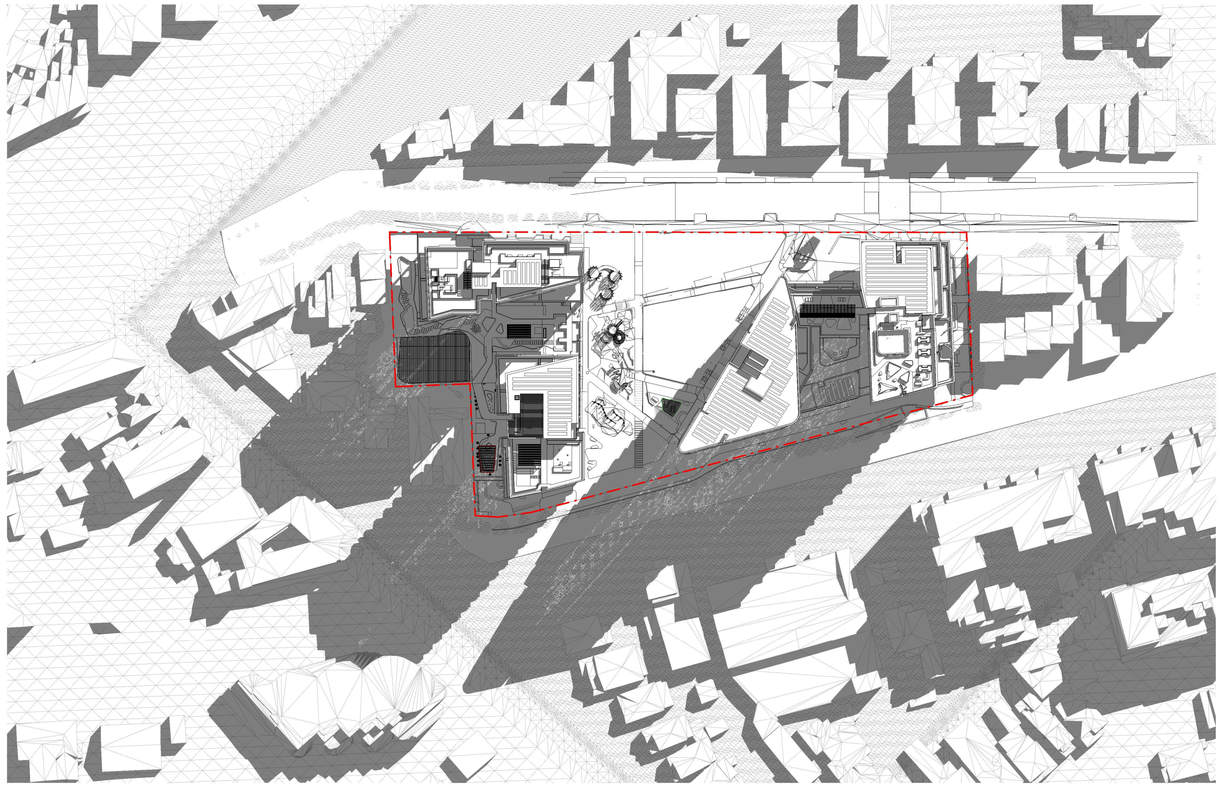
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Verified	PDS	Approved	LMC
Drawing Created (date)		Drawing Created (by)	JK, SM, AR, EC, AF
			12/22/21

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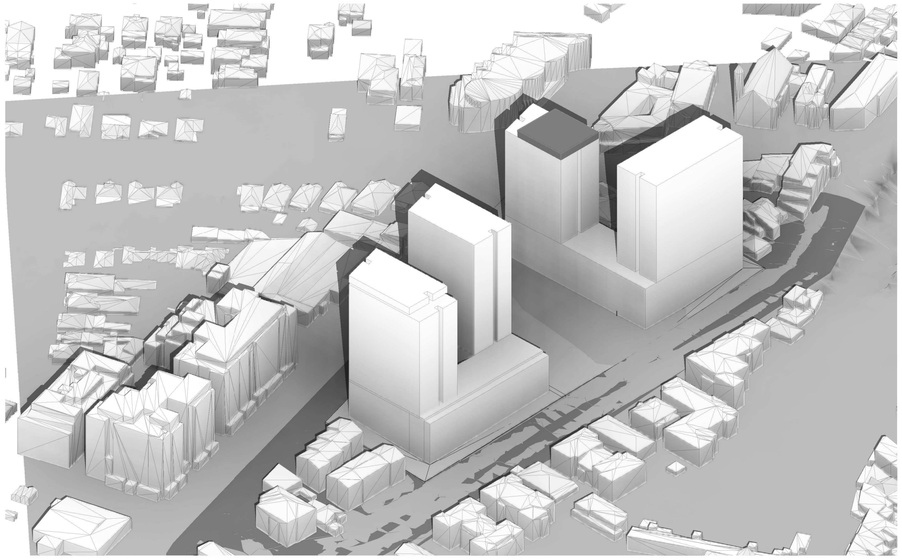
1 21 JUNE 12PM - PROPOSED
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2 21 JUNE 12PM - DCP SCHEME
1 : 1000



3 21 JUNE 12PM - PROPOSED



4 21 JUNE 12PM - DCP SCHEME

PROPOSED SHADOW

Amendments

Issue	Description	Date
-	GANSW 2	19/10/2020
1	ISSUED FOR PRE DA	29/10/2020
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A	ISSUED FOR DA	28/05/2021
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Amendments

Issue	Description	Date

Consultant
Structural Engineer / Civil
Level 6, 73 Miller Street, North Sydney
NSW 2060
TTW

Consultant
Mechanical / Acoustic / Fire Engineer
Level 6, Building B, 207 Pacific Highway
St Leonards NSW 2065
STANTEC

Consultant
Hydraulics
Level 23, 101 Miller Street, North Sydney,
NSW 2060
JHA

Client
Billbergia Group Pty Ltd
Suite 101, 25 Angas St,
Meadowbank, NSW, 2114

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architecture interior design urban design landscape
nom architect Lisa-Maree Carrigan 7568

Project Title
Eden Street Arncliffe

Drawing Title
PROPOSED SHADOW - 21 JUNE 12PM

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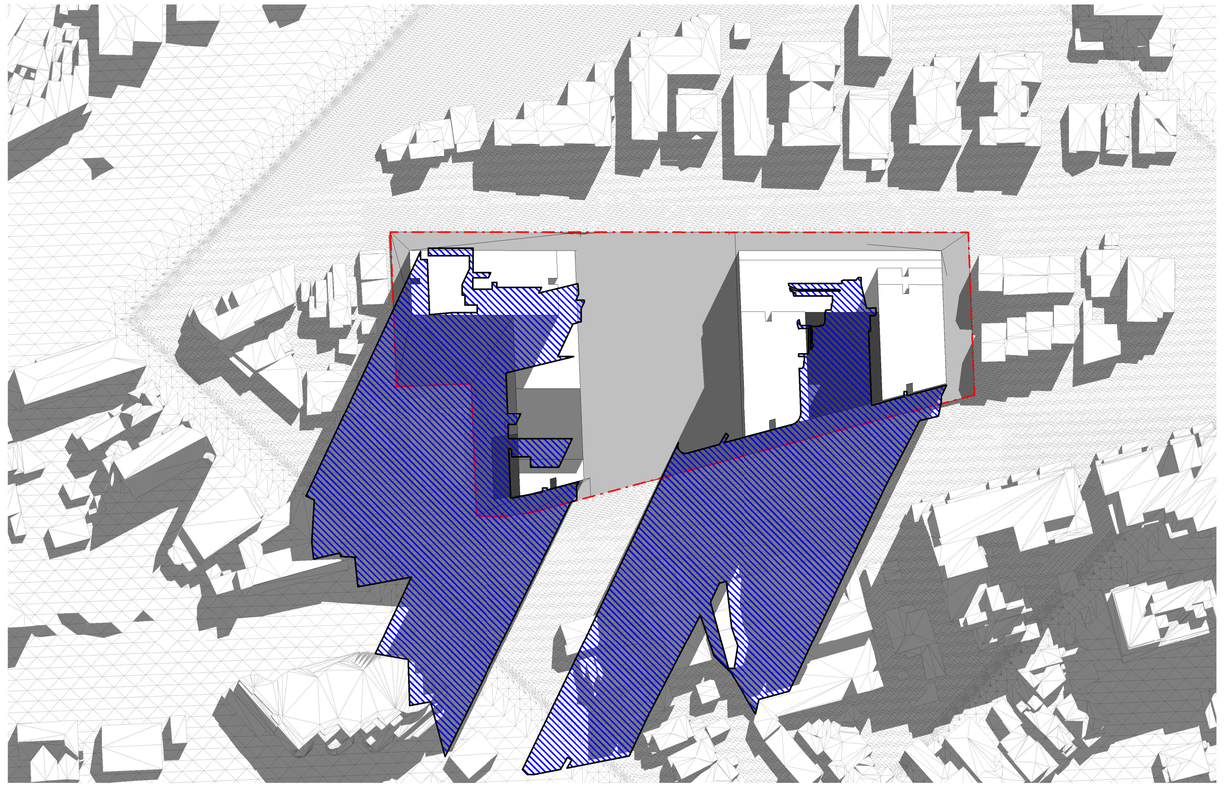
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Scale	Project No	Drawing No	Issue
As indicated	180319	DA 4553	B



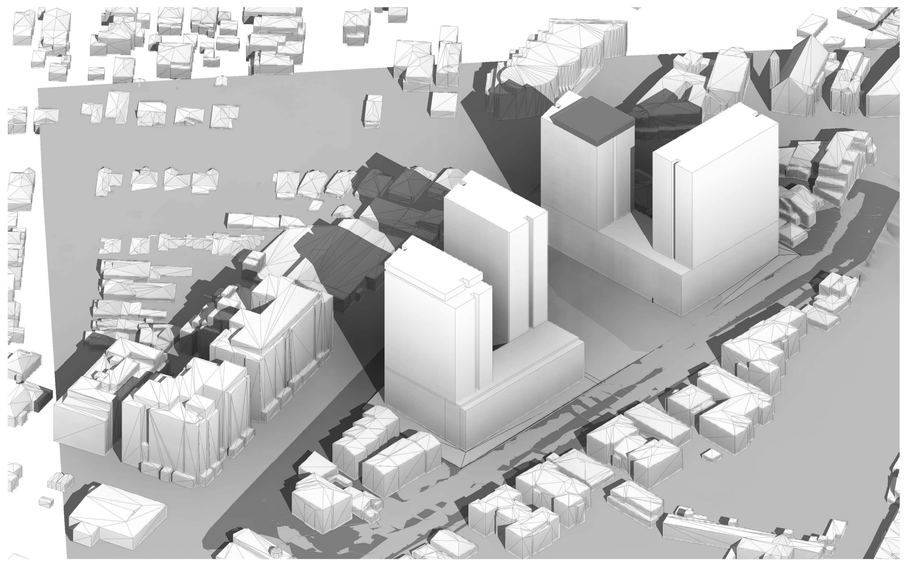
1 21 JUNE 1PM - PROPOSED
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2 21 JUNE 1PM - DCP SCHEME
1 : 1000



3 21 JUNE 1PM - PROPOSED



4 21 JUNE 1PM - DCP SCHEME

PROPOSED SHADOW

Amendments

Issue	Description	Date
-	GANSW 2	19/10/2020
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nom architect Lisa-Maree Carrigan 7568

Project Title
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Drawing Title
PROPOSED SHADOW - 21 JUNE 1PM

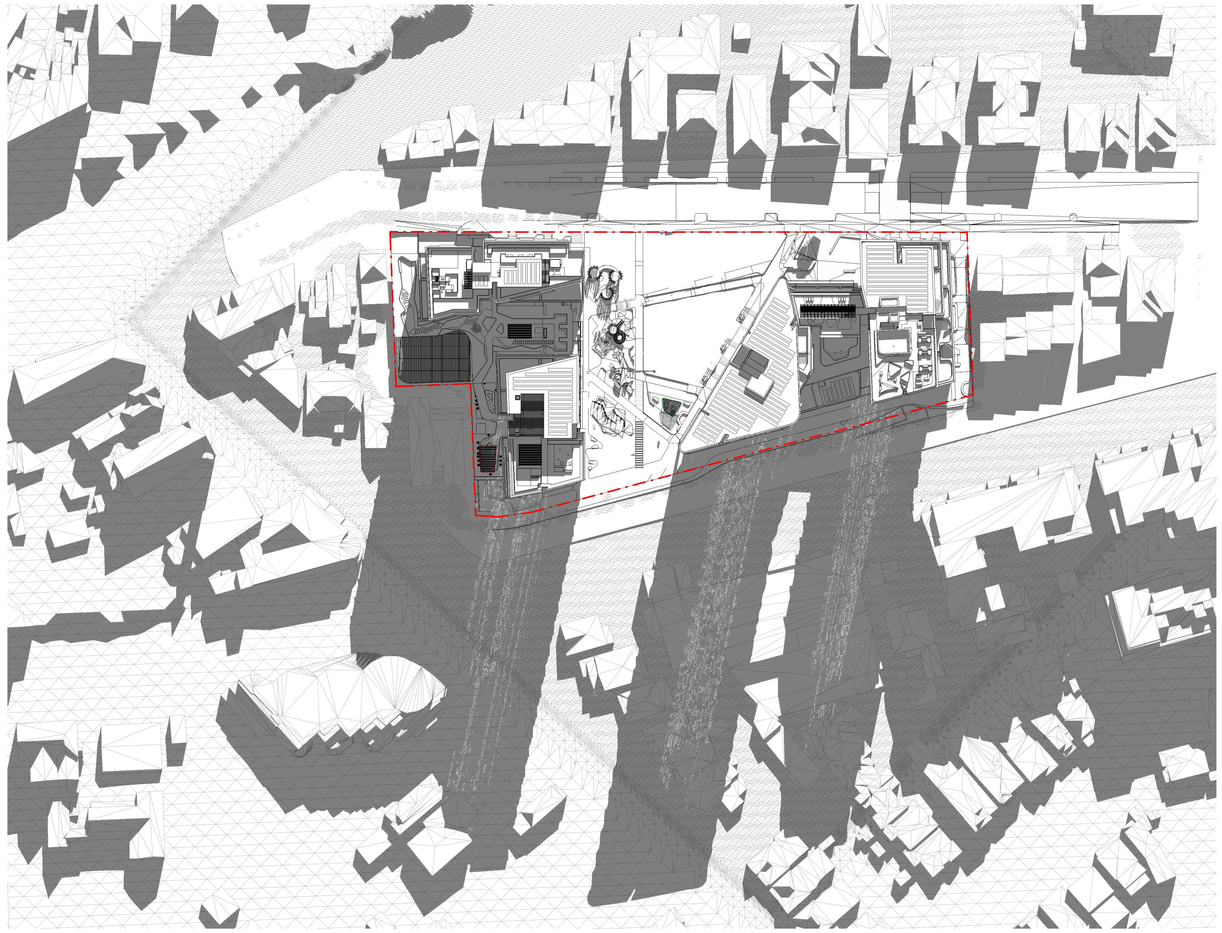
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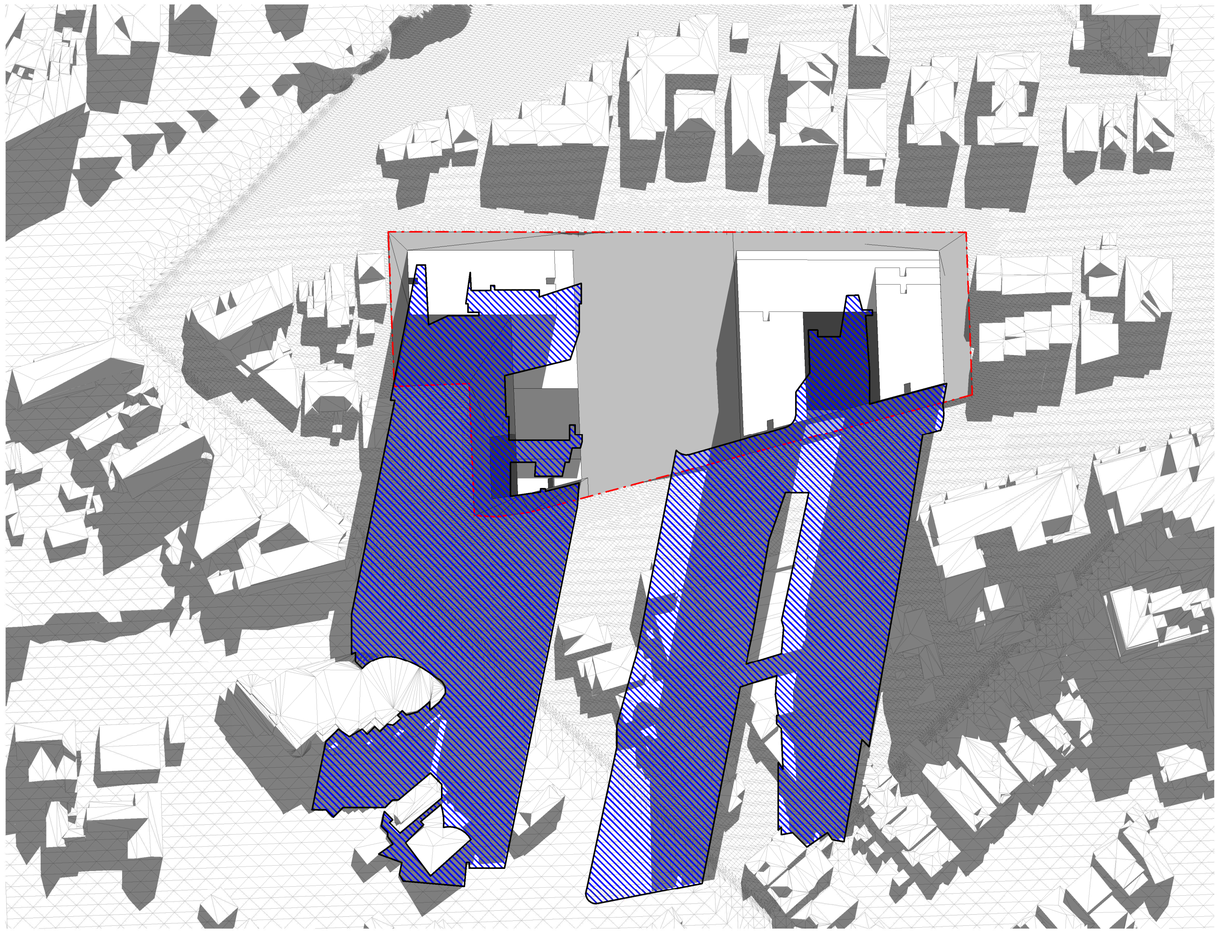
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Drawing Created (date)	Drawing Created (by) JK, SM, AR, EC, AF
	12/22/21

Scale	Project No	Drawing No	Issue
As indicated	180319	DA 4554	B



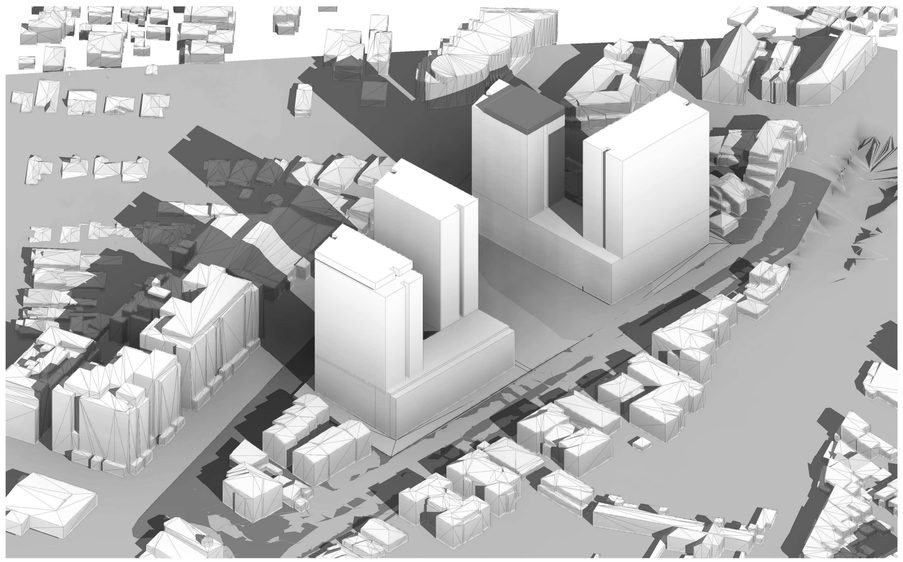
1 21 JUNE 2PM - PROPOSED
1 : 1000



2 21 JUNE 2PM - DCP SCHEME
1 : 1000



3 21 JUNE 2PM - PROPOSED



4 21 JUNE 2PM - DCP SCHEME

PROPOSED SHADOW

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Drawing Title
PROPOSED SHADOW - 21 JUNE 2PM

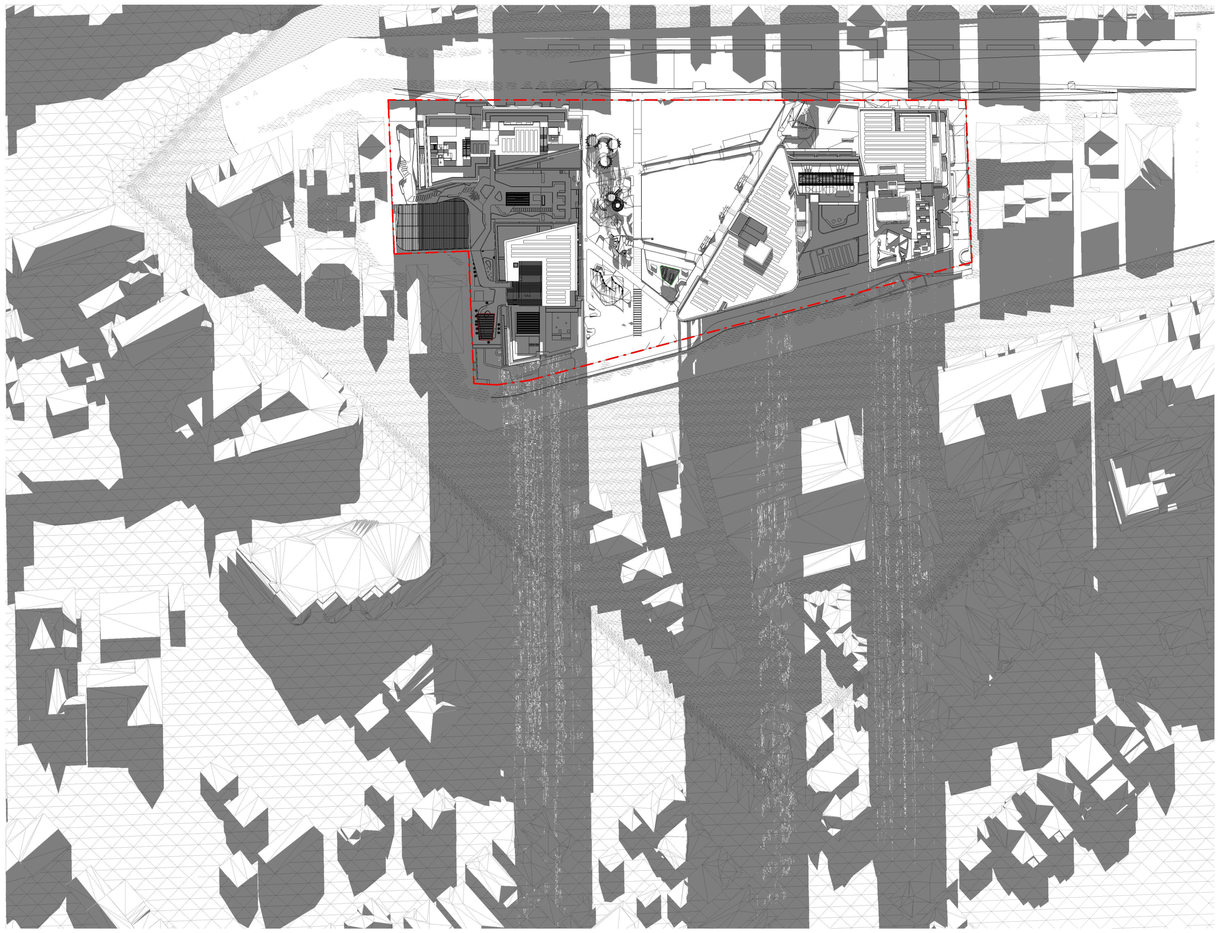
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Plotted and checked by	PDS		
Verified	PDS	Approved	LMC
Drawing Created (date)		Drawing Created (by)	JK, SM, AR, EC, AF
			12/22/21

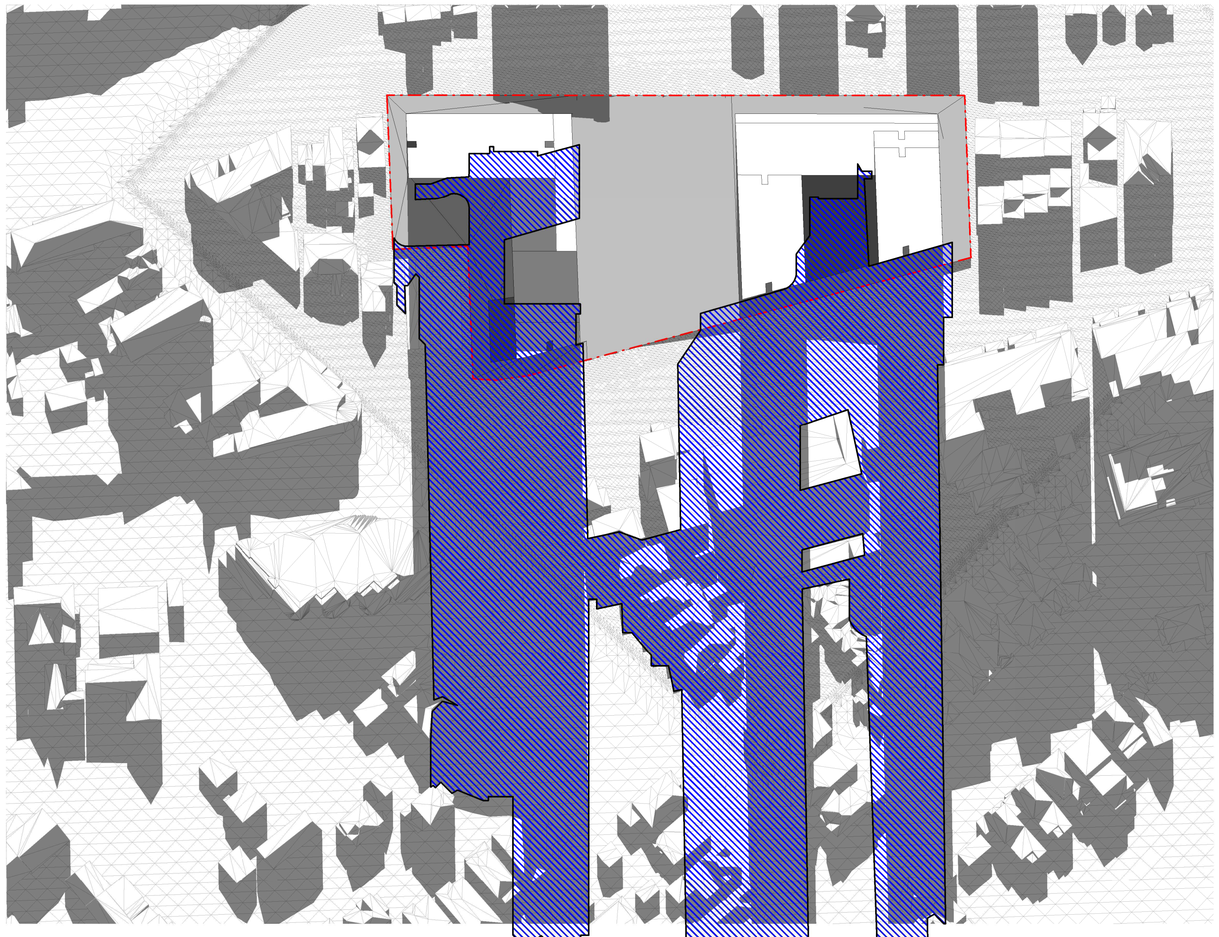
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As indicated	180319	DA 4555	B

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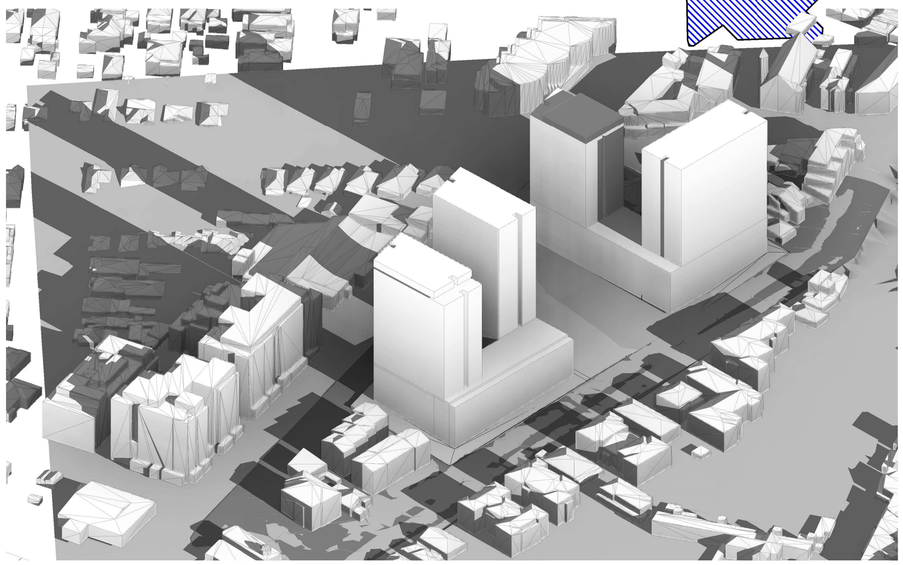


1 21 JUNE 3PM - PROPOSED
1 : 1000





2 21 JUNE 3PM - DCP SCHEME
1 : 1000



PROPOSED SHADOW

3 21 JUNE 3PM - PROPOSED

4 21 JUNE 3PM - DCP SCHEME

Amendments

Issue	Description	Date
-	GANSW 2	19/10/2020
1	ISSUED FOR PRE DA	29/10/2020
2	ISSUED FOR GANSW 03	24/03/2021
A	ISSUED FOR DA	28/05/2021
B	ISSUED FOR DA	04/01/2022

Amendments

Issue	Description	Date

Consultant
Structural Engineer / Civil
Level 6, 73 Miller Street, North Sydney
NSW 2060
TTW

Consultant
Mechanical / Acoustic / Fire Engineer
Level 6, Building B, 207 Pacific Highway
St Leonards NSW 2065
STANTEC

Consultant
Hydraulics
Level 23, 101 Miller Street, North Sydney,
NSW 2060
JHA

Client
Billbergia Group Pty Ltd
Suite 101, 25 Angas St,
Meadowbank, NSW, 2114

Billbergia
creating communities®

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Australia 2011
www.groupgsa.com

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architecture interior design urban design landscape
nom architect Lisa-Maree Carrigan 7568

Project Title
Eden Street Arncliffe

Drawing Title
PROPOSED SHADOW - 21 JUNE 3PM

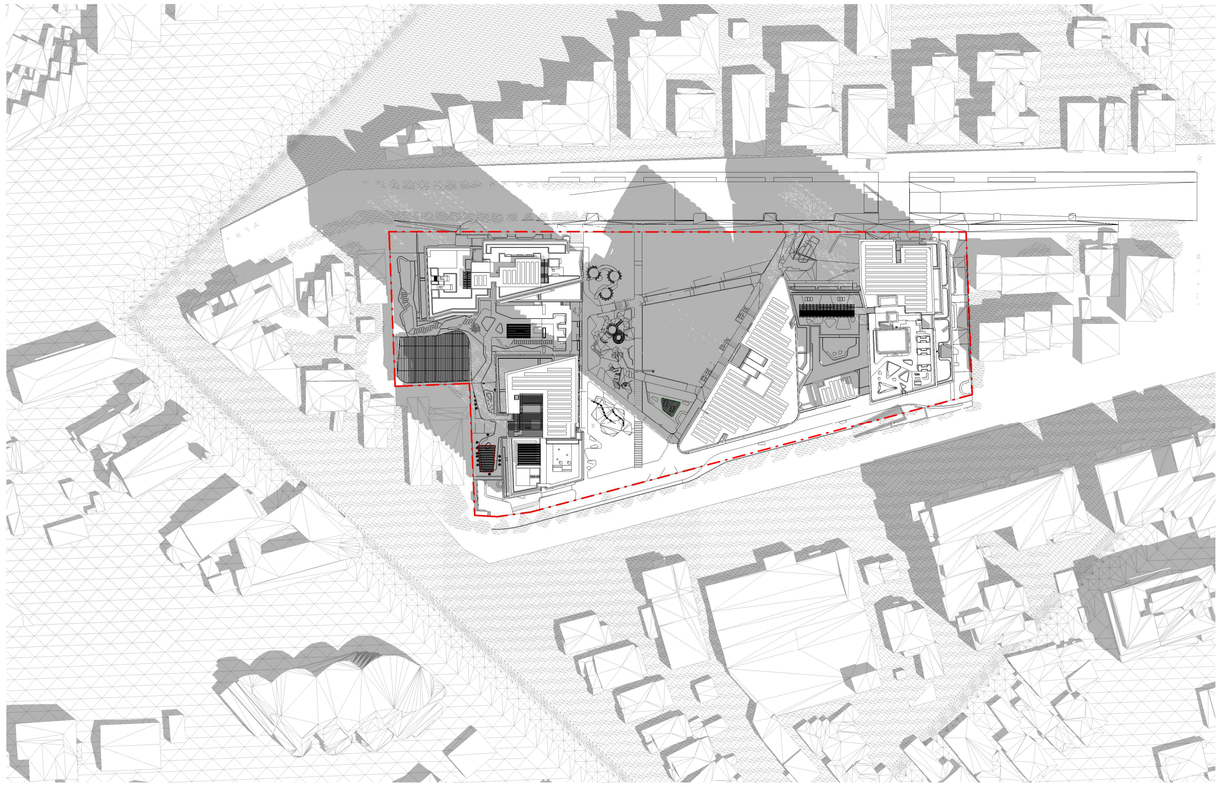
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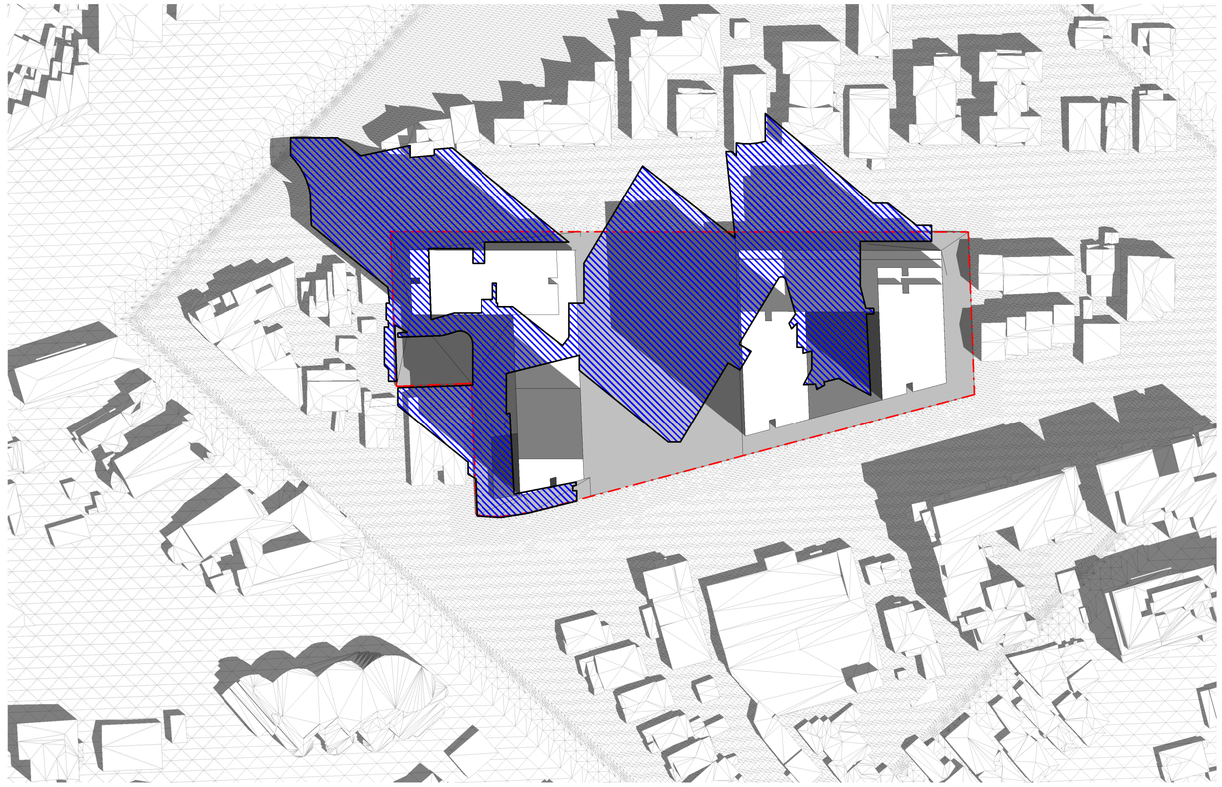
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Plotted and checked by	PDS		
Verified	PDS	Approved	LMC
Drawing Created (date)		Drawing Created (by)	JK, SM, AR, EC, AF
			12/22/21

Scale	Project No	Drawing No	Issue
As indicated	180319	DA 4556	B



1 21 DEC 9AM - PROPOSED
1 : 1000



2 21 DEC 9AM - DCP SCHEME
1 : 1000



3 21 DEC 9AM - PROPOSED



4 21 DEC 9AM - DCP SCHEME

PROPOSED SHADOW

Amendments

Issue	Description	Date
A	ISSUED FOR DA	28/05/2021
B	ISSUED FOR DA	04/01/2022

Amendments

Issue	Description	Date

Consultant
Structural Engineer / Civil
Level 6, 73 Miller Street, North Sydney
NSW 2060
TTW

Consultant
Mechanical / Acoustic / Fire Engineer
Level 6, Building B, 207 Pacific Highway
St Leonards NSW 2065
STANTEC

Consultant
Hydraulics
Level 23, 101 Miller Street, North Sydney,
NSW 2060
JHA

Client
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architecture interior design urban design landscape
nom architect Lisa-Maree Carrigan 7568

Project Title
Eden Street Arncliffe

Drawing Title
PROPOSED SHADOW - 21 DEC 9 AM (SUMMER)

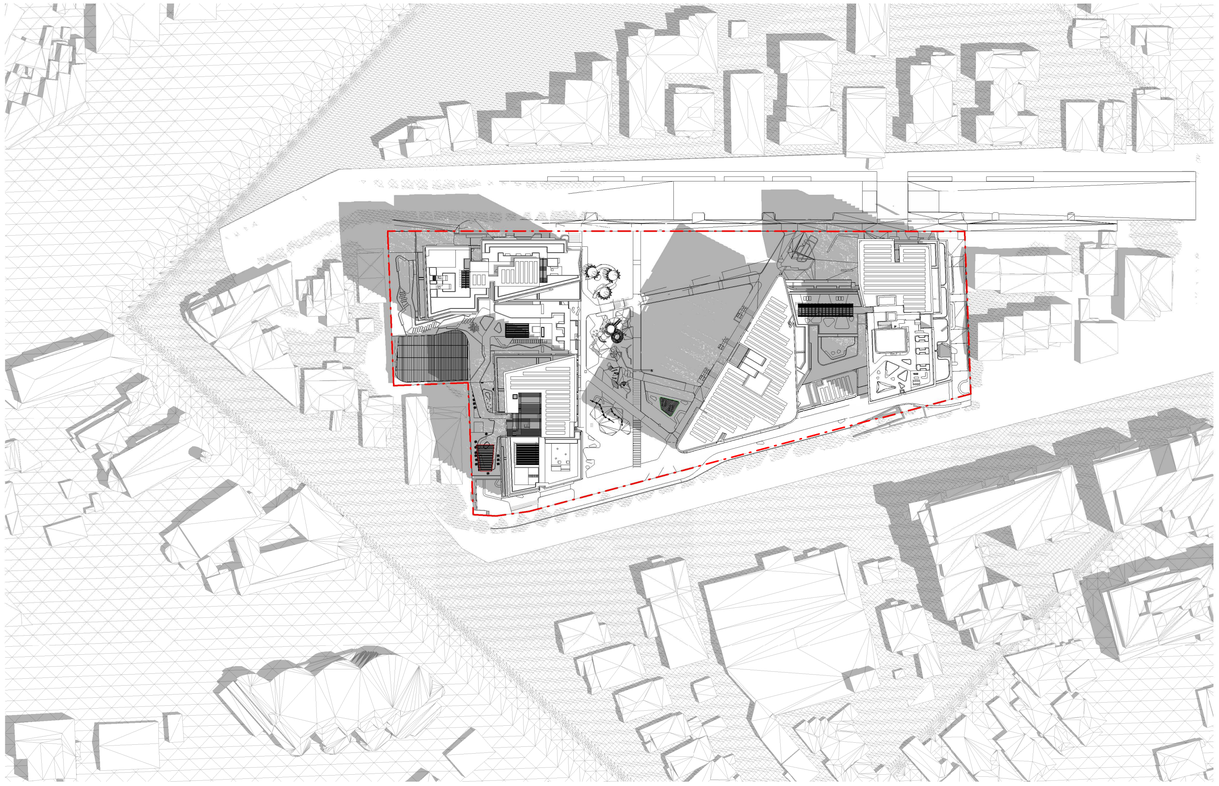
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DA SUBMISSION

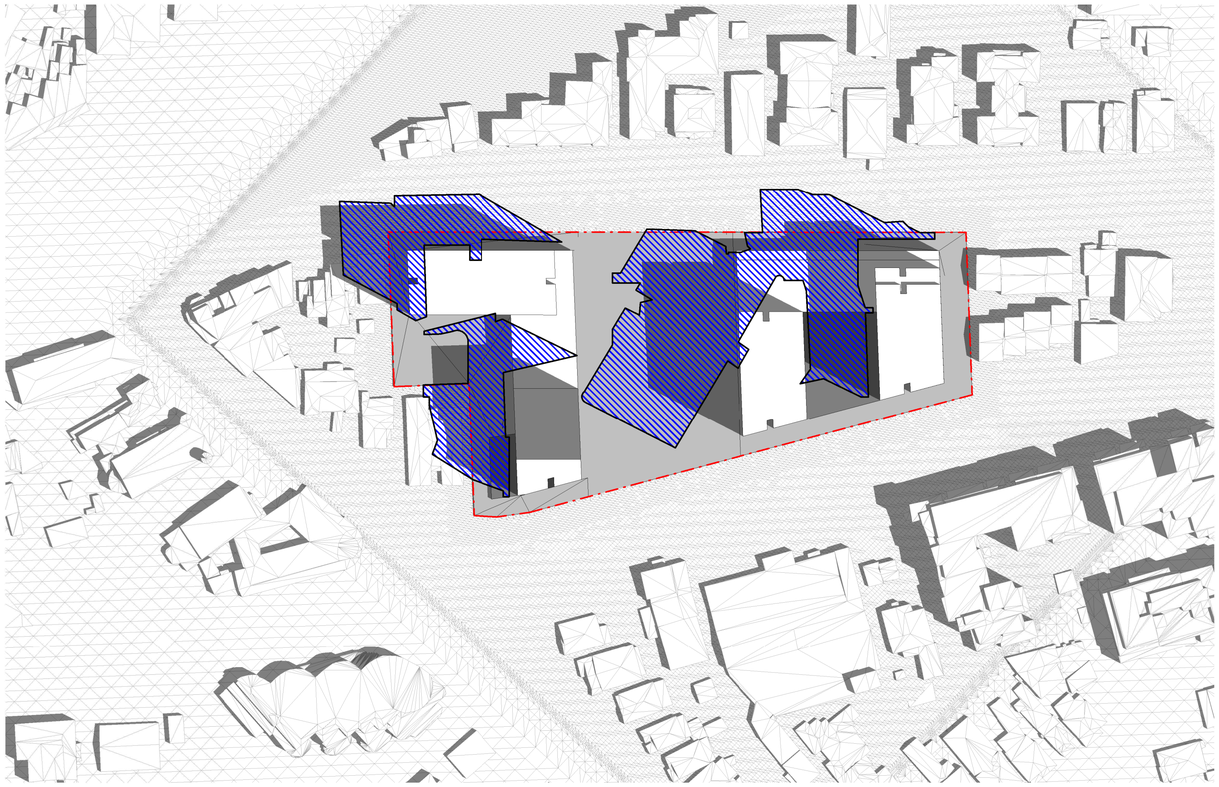
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Verified PDS		Approved	LMC
Drawing Created (date)		Drawing Created (by)	JK, SM, AR, EC, AF
			12/22/21

Scale	Project No	Drawing No	Issue
As indicated	180319	DA 4557	B



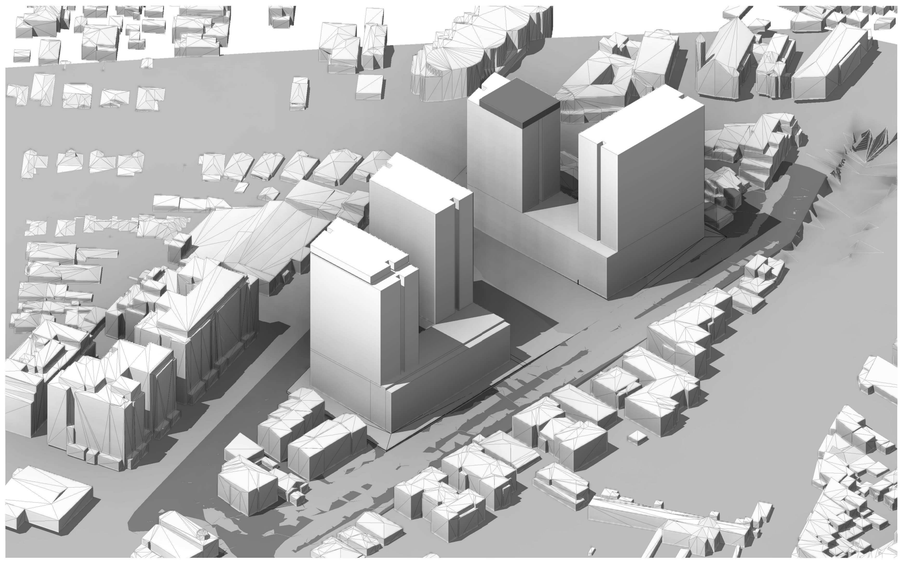
1 21 DEC 10AM - PROPOSED
1 : 1000



2 21 DEC 10AM - DCP SCHEME
1 : 1000



3 21 DEC 10AM - PROPOSED



4 21 DEC 10AM - DCP SCHEME

PROPOSED SHADOW

Amendments

Issue	Description	Date
A	ISSUED FOR DA	12/07/2021
B	ISSUED FOR DA	04/01/2022

Amendments

Issue	Description	Date

Consultant
Structural Engineer / Civil
Level 6, 73 Miller Street, North Sydney
NSW 2060
TTW

Consultant
Mechanical / Acoustic / Fire Engineer
Level 6, Building B, 207 Pacific Highway
St Leonards NSW 2065
STANTEC

Consultant
Hydraulics
Level 23, 101 Miller Street, North Sydney,
NSW 2060
JHA

Client
Billbergia Group Pty Ltd
Suite 101, 25 Angas St,
Meadowbank, NSW, 2114

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www.groupgsa.com

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architecture interior design urban design landscape
nom architect Lisa-Maree Carrigan 7568

Project Title
Eden Street Arncliffe

Drawing Title
PROPOSED SHADOW - 21 DEC 10 AM (SUMMER)

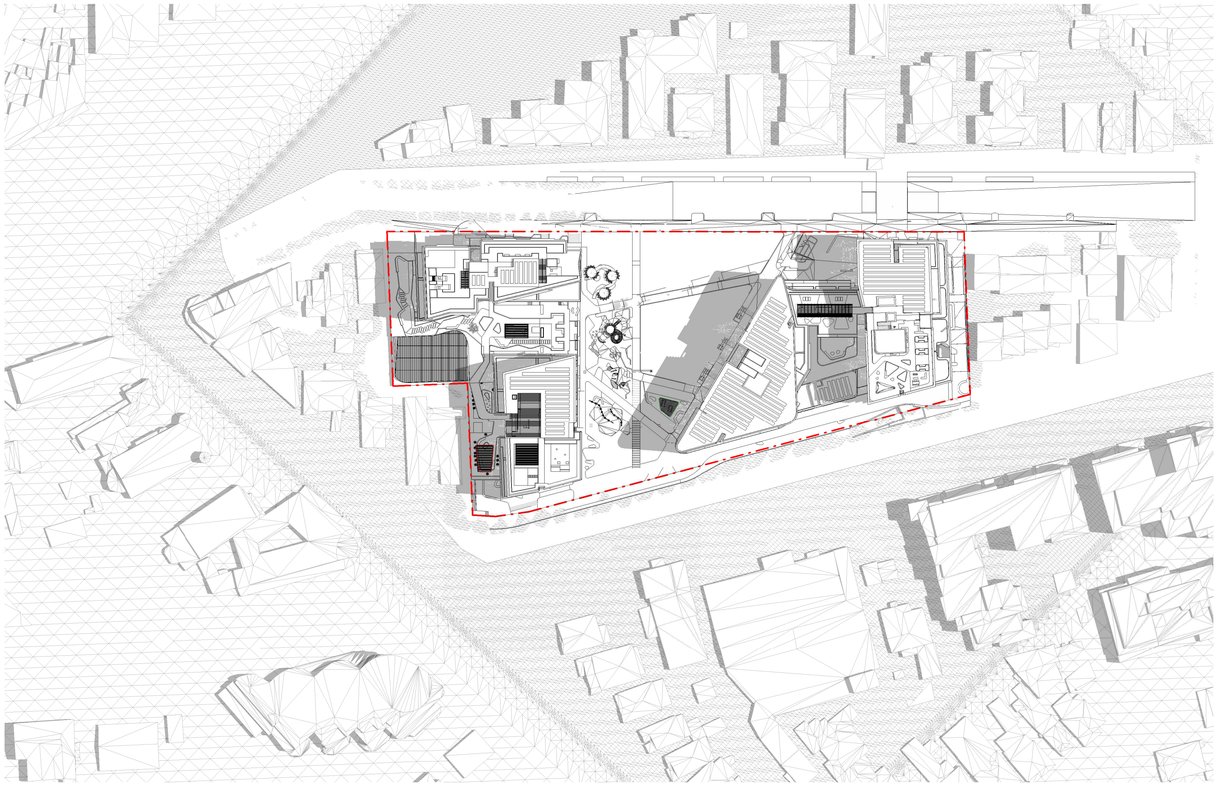
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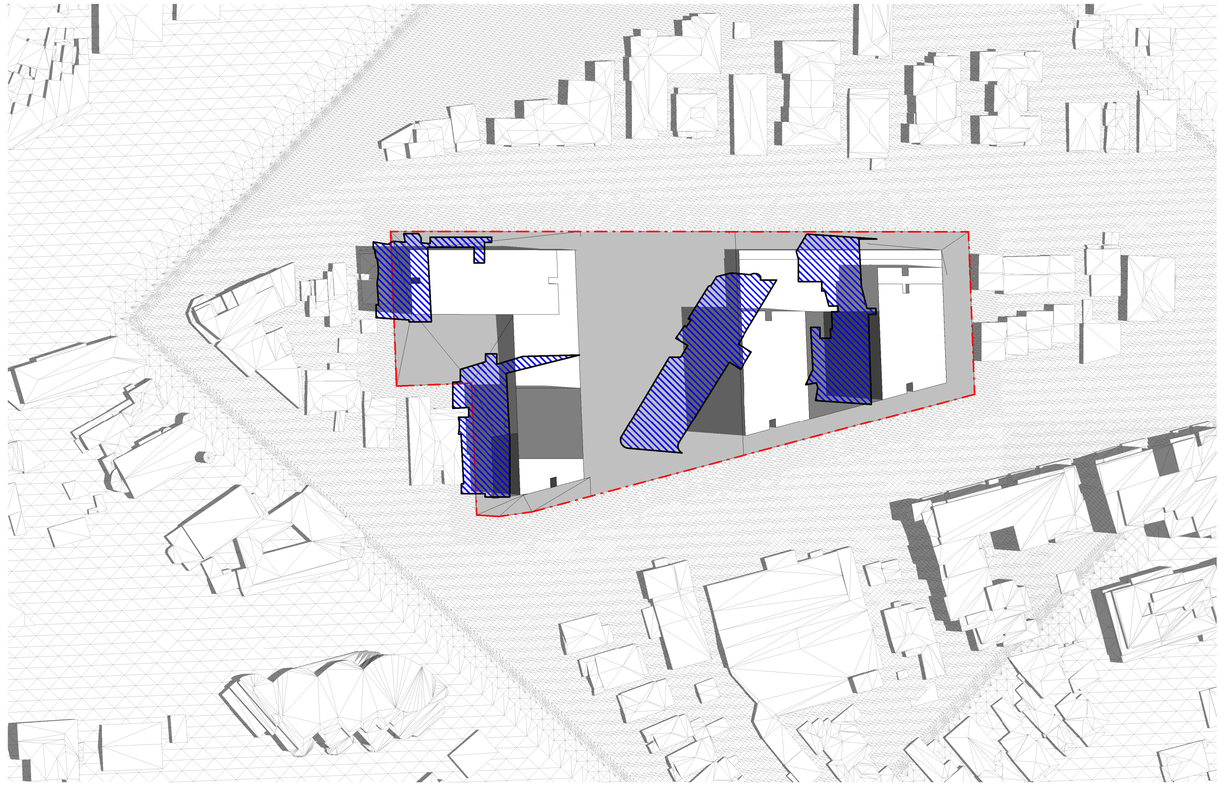
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Verified PDS		Approved	LMC
Drawing Created (date)		Drawing Created (by)	JK, SM, AR, EC, AF
			12/22/21

Scale	Project No	Drawing No	Issue
As indicated	180319	DA 4558	B



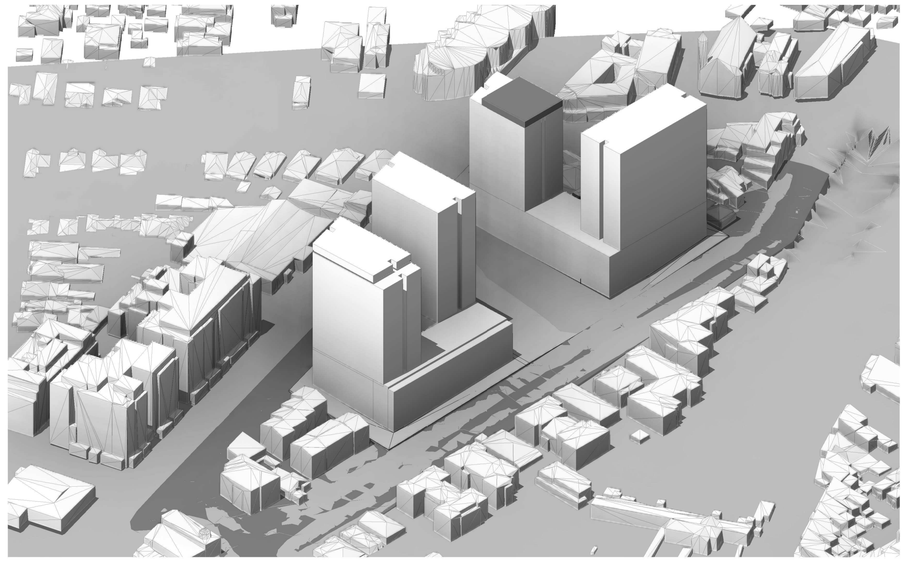
1 21 DEC 11AM - PROPOSED
1 : 1000



2 21 DEC 11AM - DCP SCHEME
1 : 1000



3 21 DEC 11AM - PROPOSED



4 21 DEC 11AM - DCP SCHEME

PROPOSED SHADOW

Amendments

Issue	Description	Date
A	ISSUED FOR DA	12/07/2021
B	ISSUED FOR DA	04/01/2022

Amendments

Issue	Description	Date

Consultant
Structural Engineer / Civil
Level 6, 73 Miller Street, North Sydney
NSW 2060
TTW

Consultant
Mechanical / Acoustic / Fire Engineer
Level 6, Building B, 207 Pacific Highway
St Leonards NSW 2065
STANTEC

Consultant
Hydraulics
Level 23, 101 Miller Street, North Sydney,
NSW 2060
JHA

Client
Billbergia Group Pty Ltd
Suite 101, 25 Angas St,
Meadowbank, NSW, 2114

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architecture interior design urban design landscape
nom architect Lisa-Maree Carrigan 7568

Project Title
Eden Street Arncliffe

Drawing Title
PROPOSED SHADOW - 21 DEC 11 AM (SUMMER)

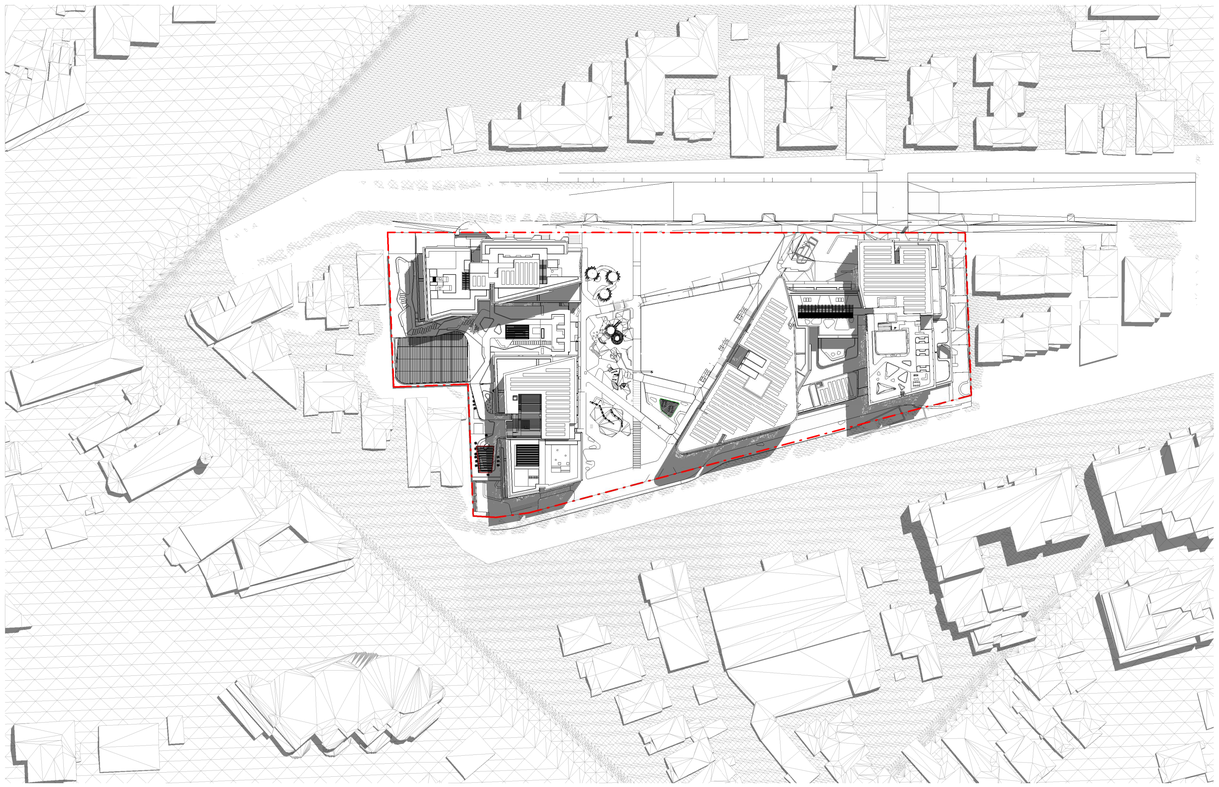
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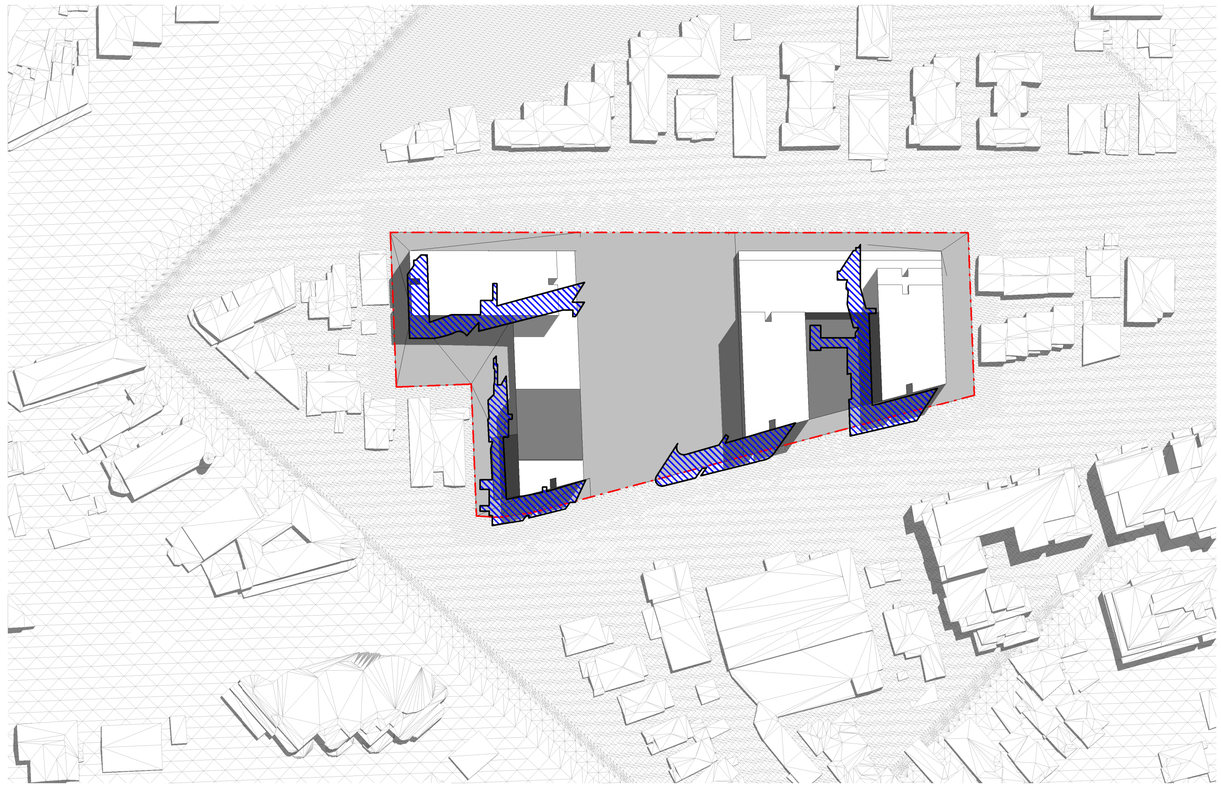
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			12/22/21

Scale	Project No	Drawing No	Issue
As indicated	180319	DA 4559	B



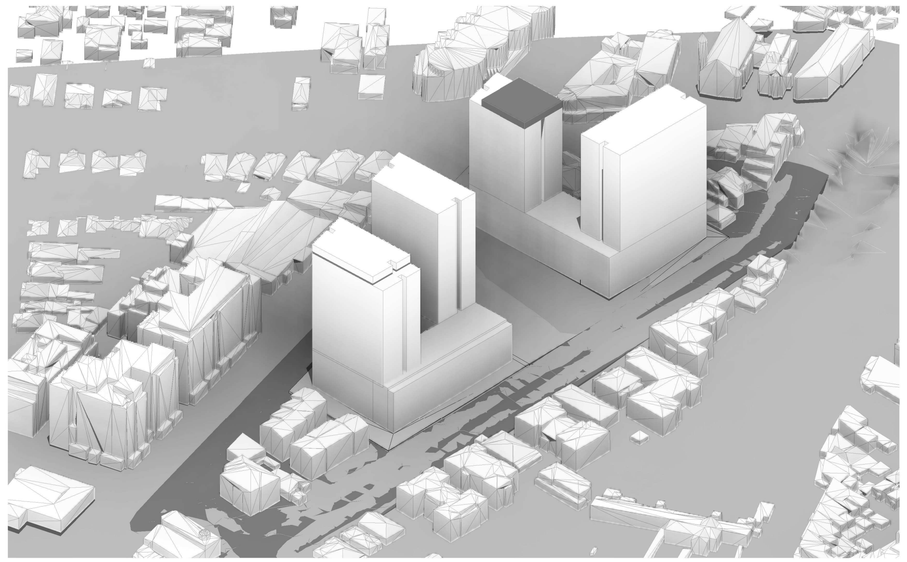
1 21 DEC 12PM - PROPOSED
1 : 1000



2 21 DEC 12PM - DCP SCHEME
1 : 1000



3 21 DEC 12PM - PROPOSED



4 21 DEC 12PM - DCP SCHEME

PROPOSED SHADOW

Amendments

Issue	Description	Date
A	ISSUED FOR DA	12/07/2021
B	ISSUED FOR DA	04/01/2022

Amendments

Issue	Description	Date

Consultant
Structural Engineer / Civil
Level 6, 73 Miller Street, North Sydney
NSW 2060
TTW

Consultant
Mechanical / Acoustic / Fire Engineer
Level 6, Building B, 207 Pacific Highway
St Leonards NSW 2065
STANTEC

Consultant
Hydraulics
Level 23, 101 Miller Street, North Sydney,
NSW 2060
JHA

Client
Billbergia Group Pty Ltd
Suite 101, 25 Angas St,
Meadowbank, NSW, 2114

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architecture interior design urban design landscape
nom architect Lisa-Maree Carrigan 7568

Project Title
Eden Street Arncliffe

Drawing Title
PROPOSED SHADOW - 21 DEC 12 PM (SUMMER)

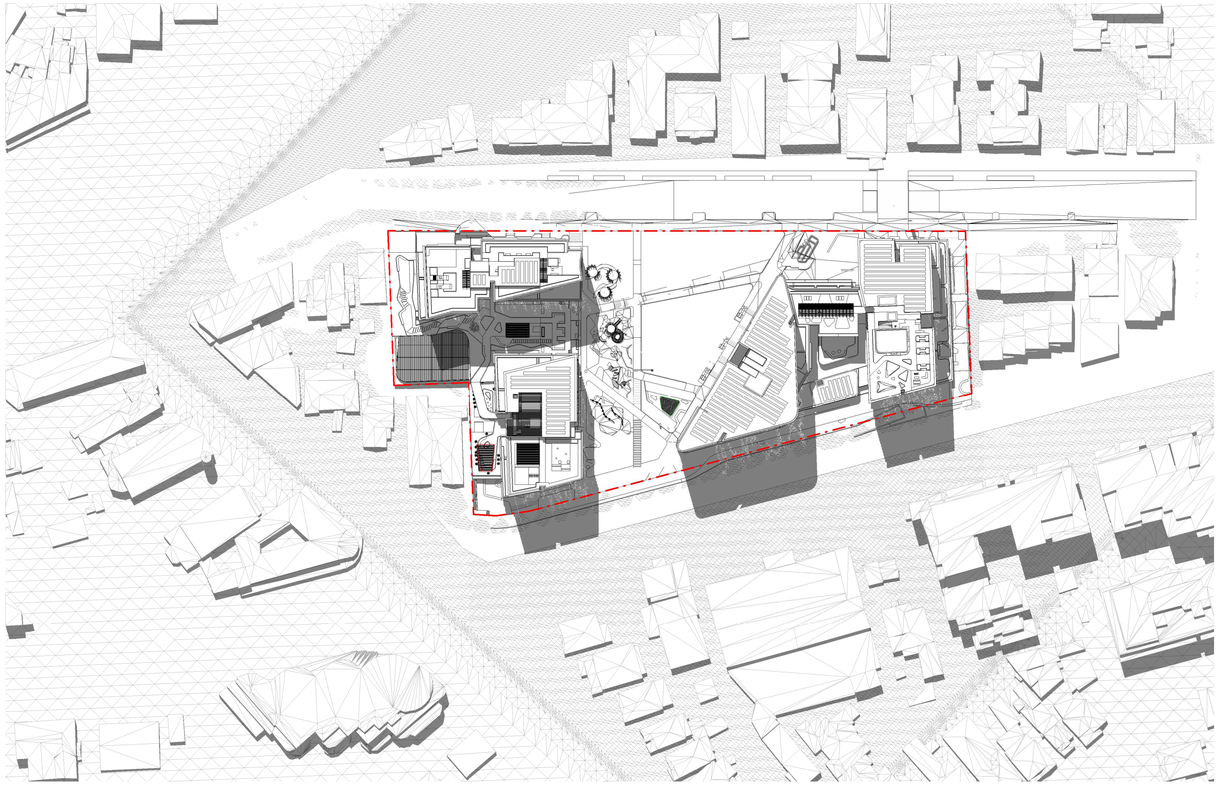
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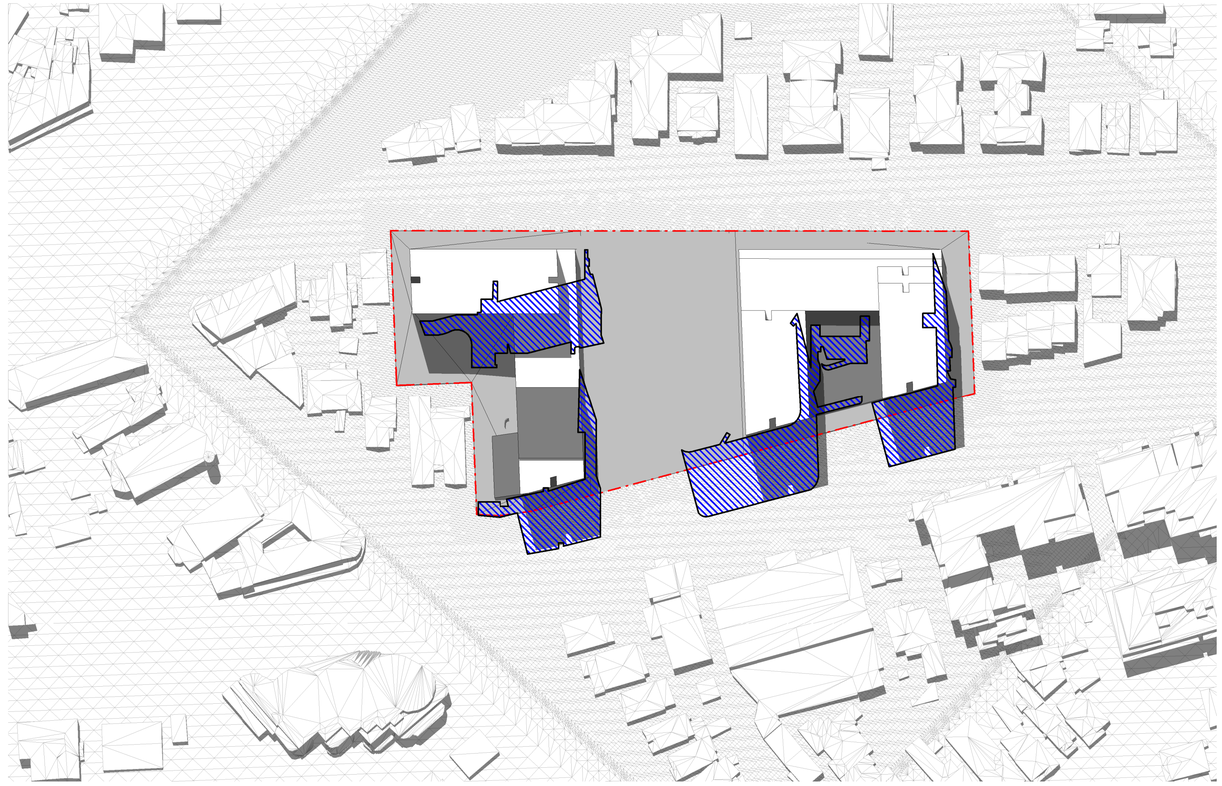
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Verified PDS		Approved	LMC
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			12/22/21

Scale	Project No	Drawing No	Issue
As indicated	180319	DA 4560	B



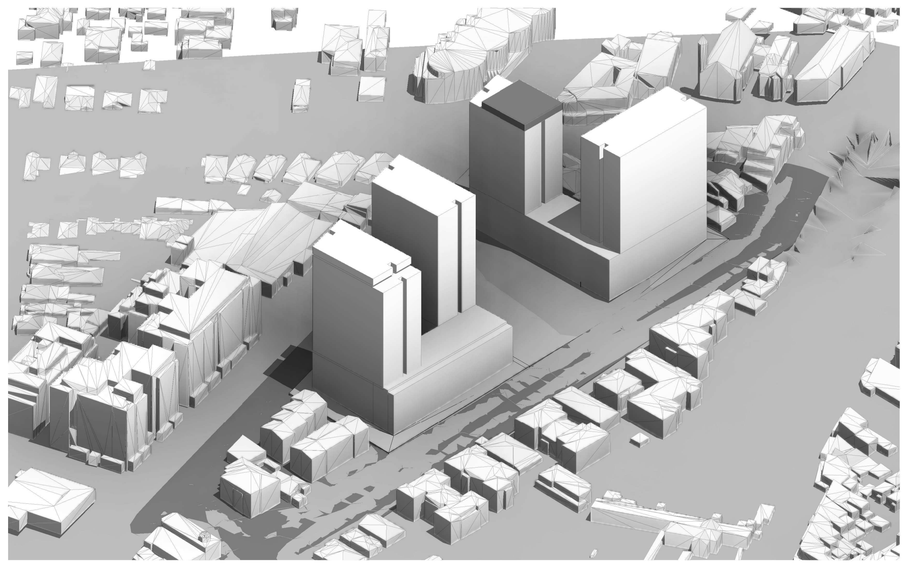
1 21 DEC 1PM - PROPOSED
1 : 1000



2 21 DEC 1PM - DCP SCHEME
1 : 1000



3 21 DEC 1PM - PROPOSED



4 21 DEC 1PM - DCP SCHEME

PROPOSED SHADOW

Amendments

Issue	Description	Date
A	ISSUED FOR DA	12/07/2021
B	ISSUED FOR DA	04/01/2022

Amendments

Issue	Description	Date

Consultant
Structural Engineer / Civil
Level 6, 73 Miller Street, North Sydney
NSW 2060
TTW

Consultant
Mechanical / Acoustic / Fire Engineer
Level 6, Building B, 207 Pacific Highway
St Leonards NSW 2065
STANTEC

Consultant
Hydraulics
Level 23, 101 Miller Street, North Sydney,
NSW 2060
JHA

Client
Billbergia Group Pty Ltd
Suite 101, 25 Angas St,
Meadowbank, NSW, 2114

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www.groupgsa.com

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architecture interior design urban design landscape
nom architect Lisa-Maree Carrigan 7568

Project Title
Eden Street Arncliffe

Drawing Title
PROPOSED SHADOW - 21 DEC 1 PM (SUMMER)

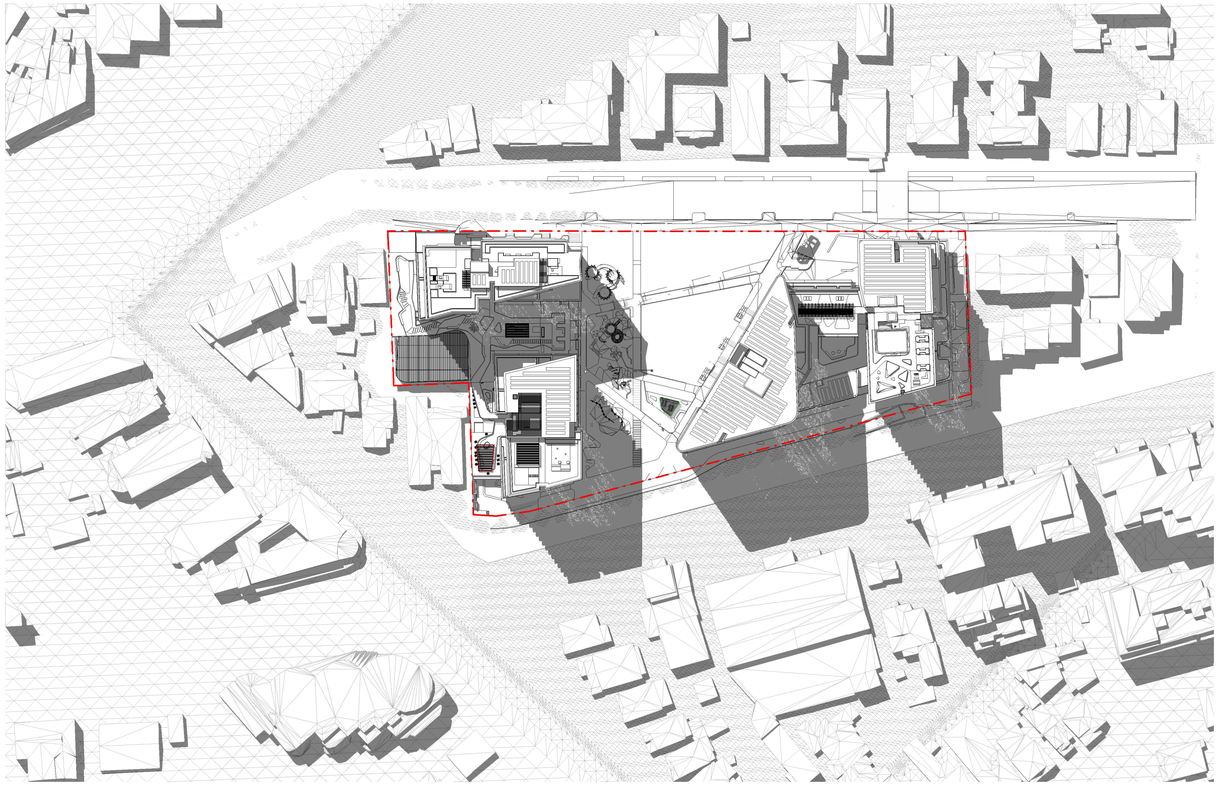
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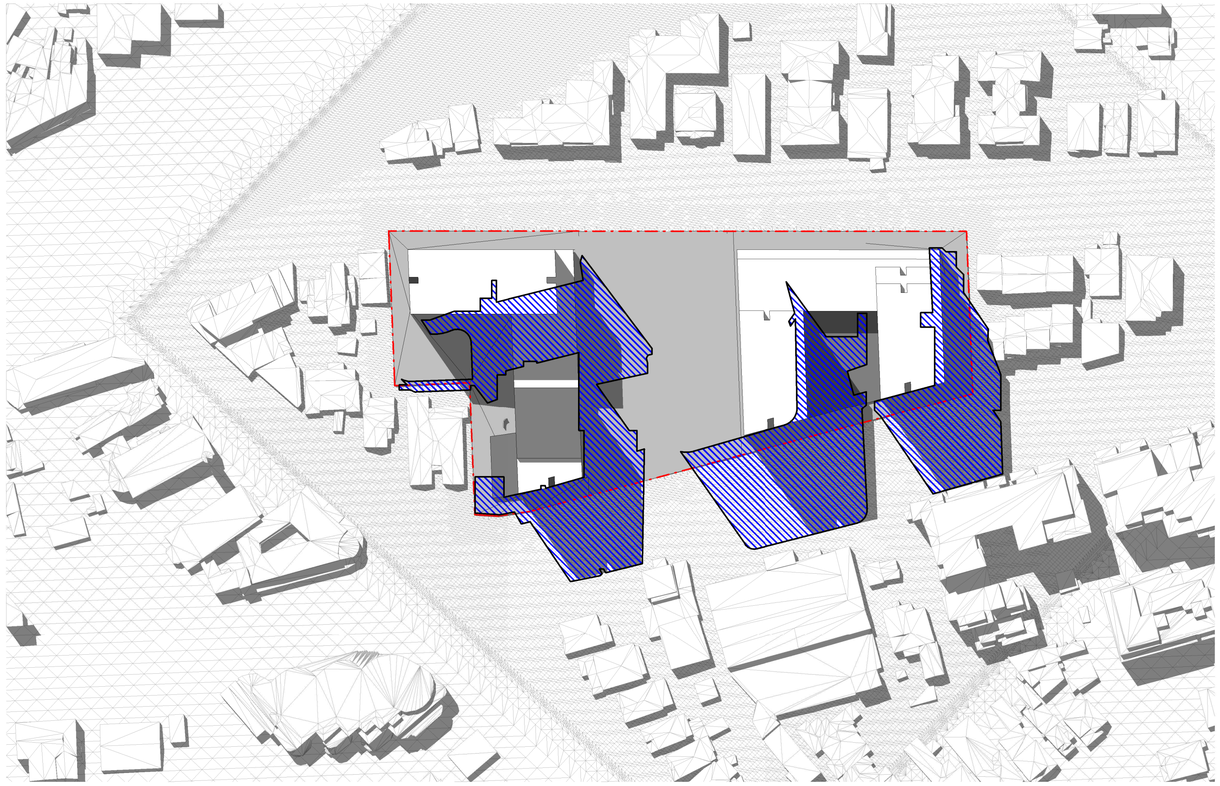
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Verified PDS		Approved	LMC
Drawing Created (date)		Drawing Created (by)	JK, SM, AR, EC, AF
			12/22/21

Scale	Project No	Drawing No	Issue
As indicated	180319	DA 4561	B



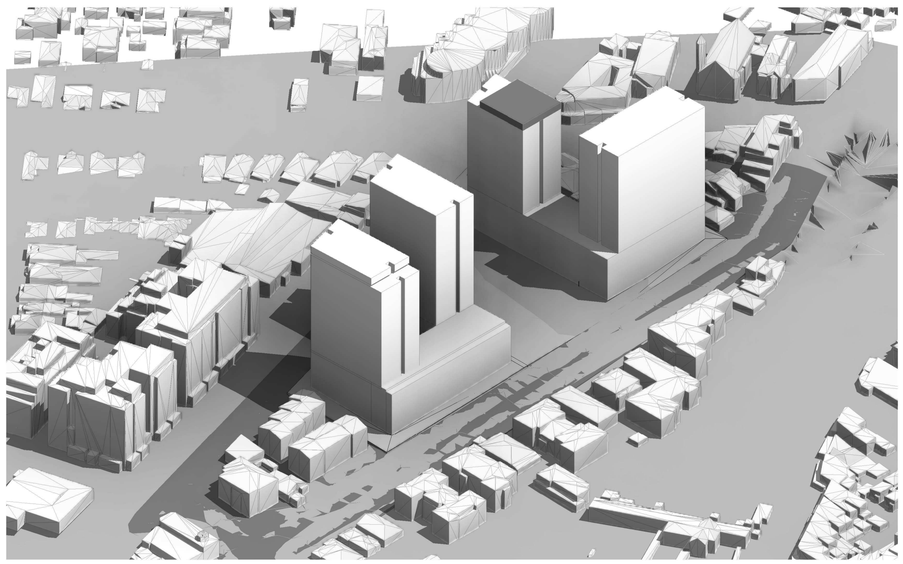
1 21 DEC 2PM - PROPOSED
1 : 1000



2 21 DEC 2PM - DCP SCHEME
1 : 1000



3 21 DEC 2PM - PROPOSED



4 21 DEC 2PM - DCP SCHEME

PROPOSED SHADOW

Amendments

Issue	Description	Date
A	ISSUED FOR DA	12/07/2021
B	ISSUED FOR DA	04/01/2022

Amendments

Issue	Description	Date

Consultant
Structural Engineer / Civil
Level 6, 73 Miller Street, North Sydney
NSW 2060
TTW

Consultant
Mechanical / Acoustic / Fire Engineer
Level 6, Building B, 207 Pacific Highway
St Leonards NSW 2065
STANTEC

Consultant
Hydraulics
Level 23, 101 Miller Street, North Sydney,
NSW 2060
JHA

Client
Billbergia Group Pty Ltd
Suite 101, 25 Angas St,
Meadowbank, NSW, 2114

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architecture interior design urban design landscape
nom architect Lisa-Maree Carrigan 7568

Project Title
Eden Street Arncliffe

Drawing Title
PROPOSED SHADOW - 21 DEC 2 PM (SUMMER)

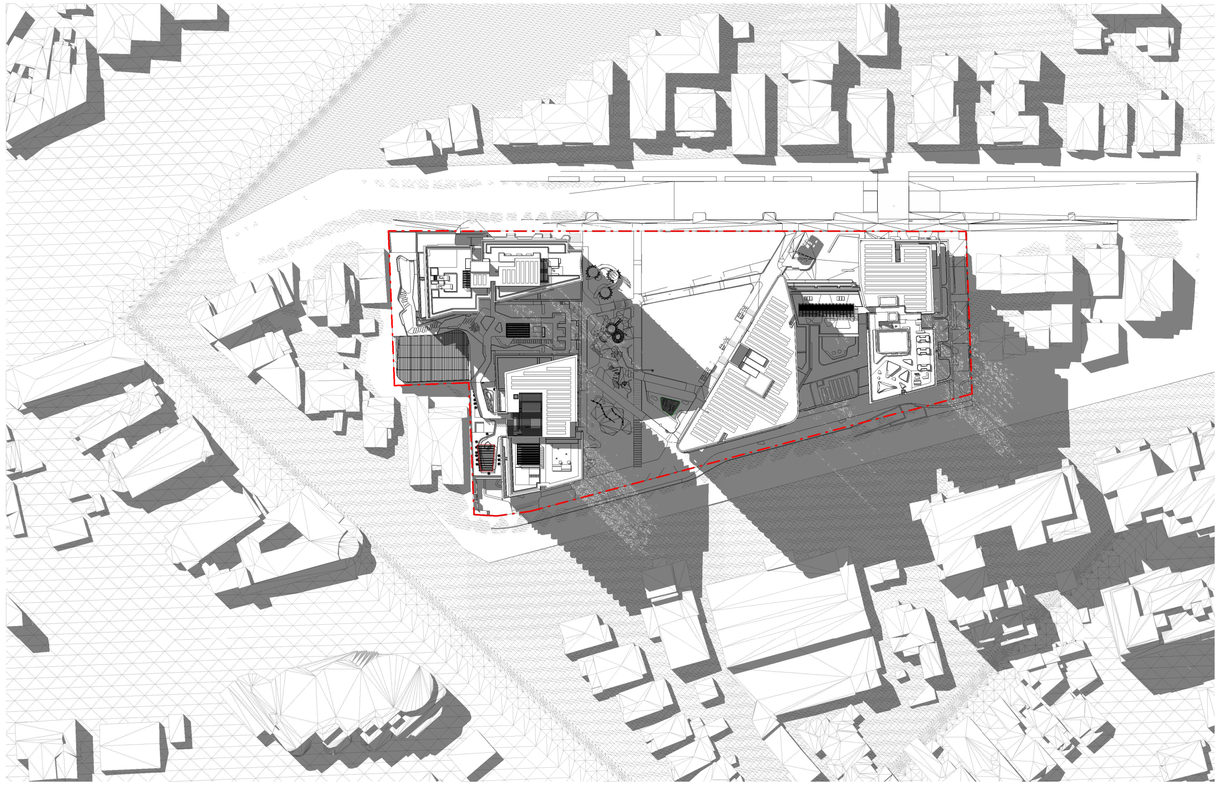
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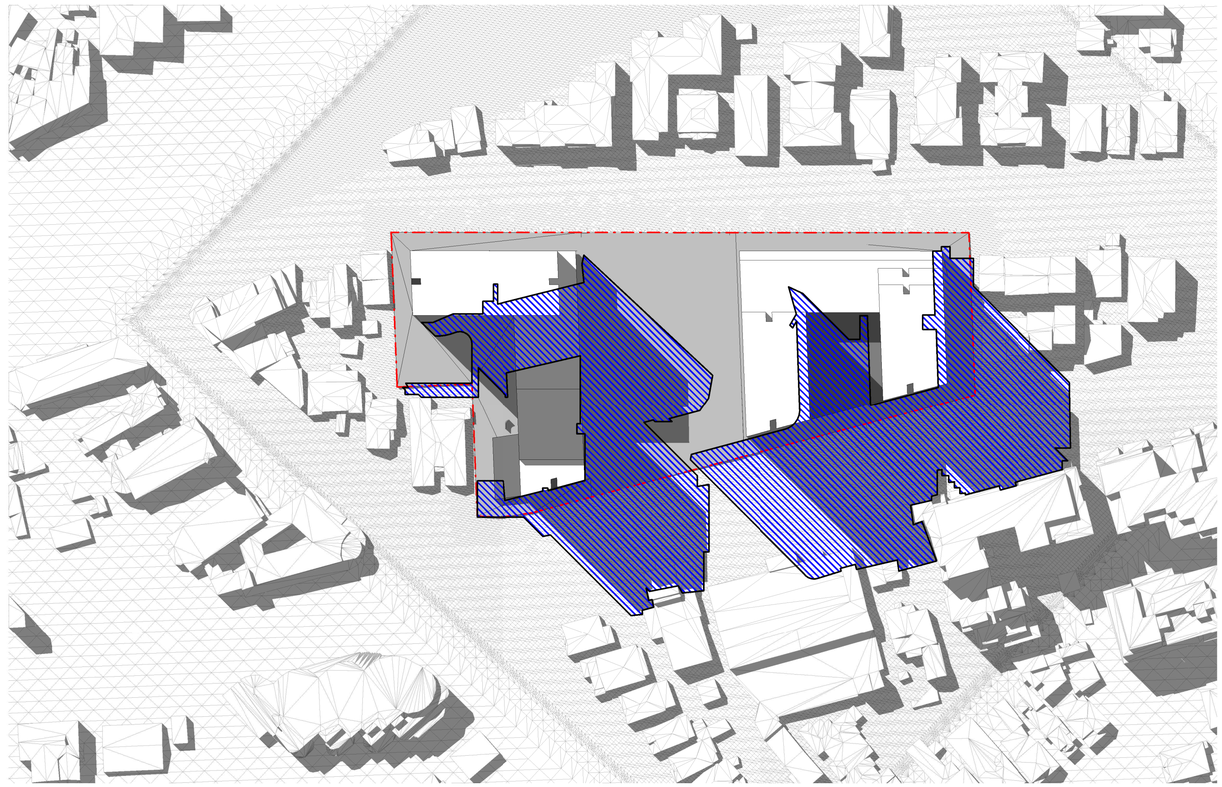
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Drawing Created (date)		Drawing Created (by)	JK, SM, AR, EC, AF
			12/22/21

Scale	Project No	Drawing No	Issue
As indicated	180319	DA 4562	B



1 21 DEC 3PM - PROPOSED
1 : 1000



2 21 DEC 3PM - DCP SCHEME
1 : 1000



3 21 DEC 3PM - PROPOSED



4 21 DEC 3PM - DCP SCHEME

PROPOSED SHADOW

Amendments

Issue	Description	Date
A	ISSUED FOR DA	12/07/2021
B	ISSUED FOR DA	04/01/2022

Amendments

Issue	Description	Date

Consultant
Structural Engineer / Civil
Level 6, 73 Miller Street, North Sydney
NSW 2060
TTW

Consultant
Mechanical / Acoustic / Fire Engineer
Level 6, Building B, 207 Pacific Highway
St Leonards NSW 2065
STANTEC

Consultant
Hydraulics
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architecture interior design urban design landscape
nom architect Lisa-Maree Carrigan 7568

Project Title
Eden Street Arncliffe

Drawing Title
PROPOSED SHADOW - 21 DEC 3 PM (SUMMER)

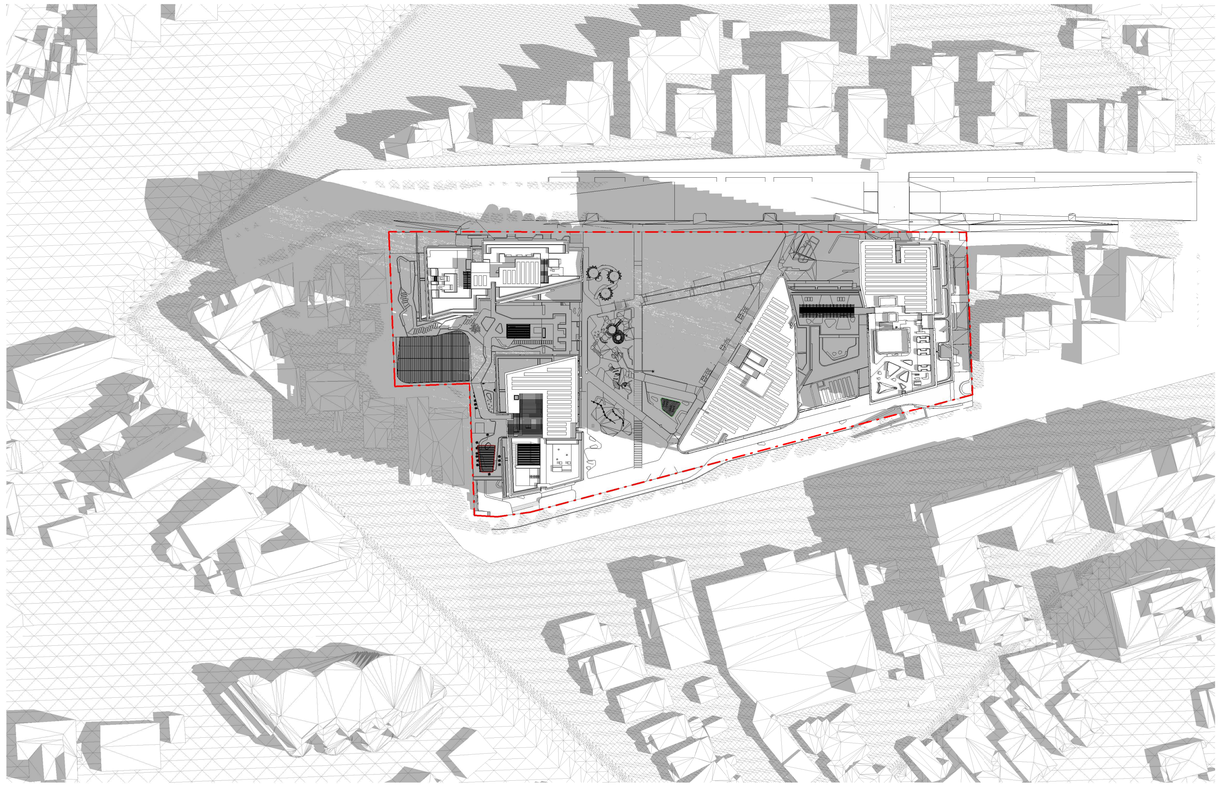
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DA SUBMISSION

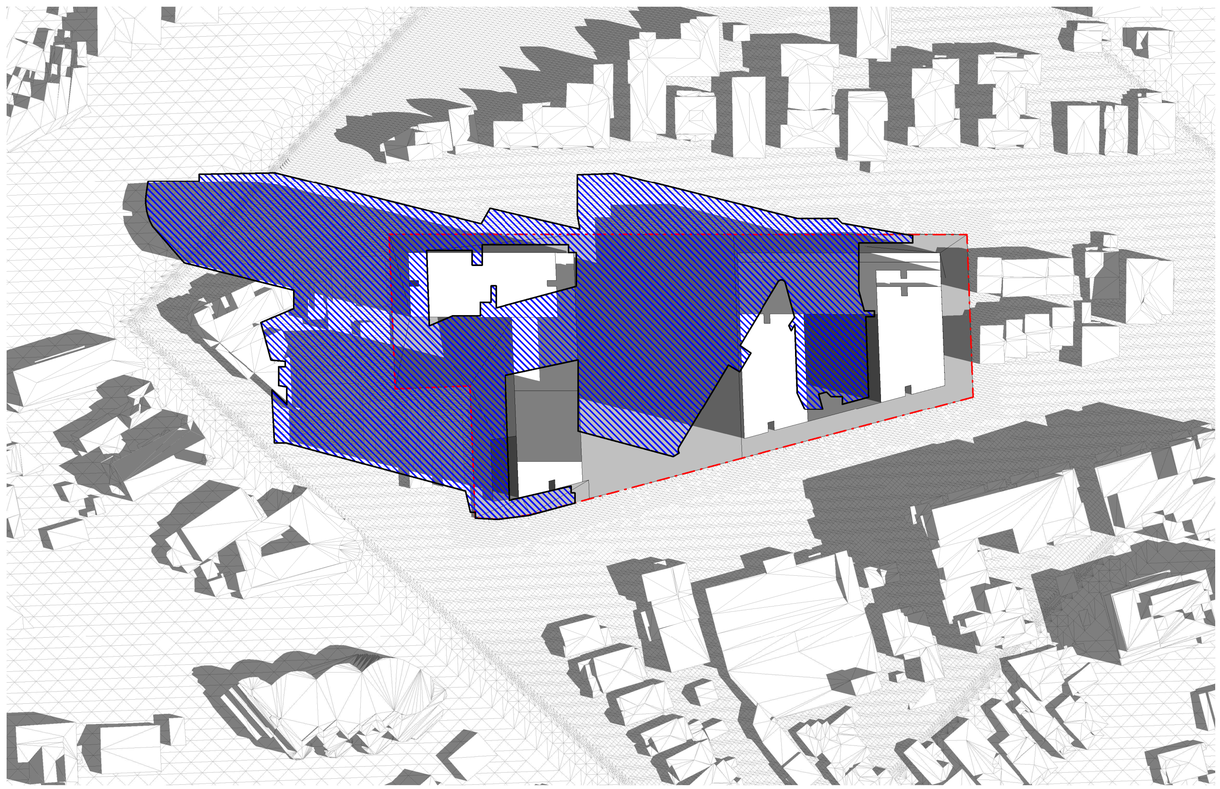
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Plotted and checked by	PDS		
Verified PDS		Approved	LMC
Drawing Created (date)		Drawing Created (by)	JK, SM, AR, EC, AF
			12/22/21

Scale	Project No	Drawing No	Issue
As indicated	180319	DA 4563	B



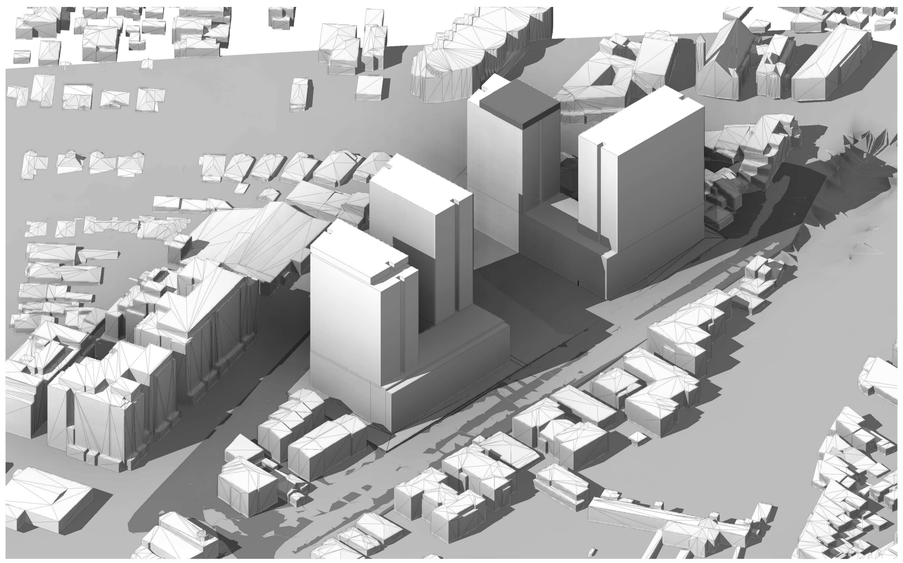
1 21 MARCH 9AM - PROPOSED
1 : 1000



2 21 MARCH 9AM - DCP SCHEME
1 : 1000



3 21 MARCH 9AM - PROPOSED



PROPOSED SHADOW

4 21 MARCH 9AM - DCP SCHEME

Amendments

Issue	Description	Date
A	ISSUED FOR DA	28/05/2021
B	ISSUED FOR DA	04/01/2022

Amendments

Issue	Description	Date

Consultant
Structural Engineer / Civil
Level 6, 73 Miller Street, North Sydney
NSW 2060
TTW

Consultant
Mechanical / Acoustic / Fire Engineer
Level 6, Building B, 207 Pacific Highway
St Leonards NSW 2065
STANTEC

Consultant
Hydraulics
Level 23, 101 Miller Street, North Sydney,
NSW 2060
JHA

Client
Billbergia Group Pty Ltd
Suite 101, 25 Angas St,
Meadowbank, NSW, 2114

Billbergia
creating communities®

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Australia 2011
www.groupgsa.com

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architecture interior design urban design landscape
nom architect Lisa-Maree Carrigan 7568

Project Title
Eden Street Arncliffe

Drawing Title
PROPOSED SHADOW - 21 MARCH 9 AM (EQUINOX)

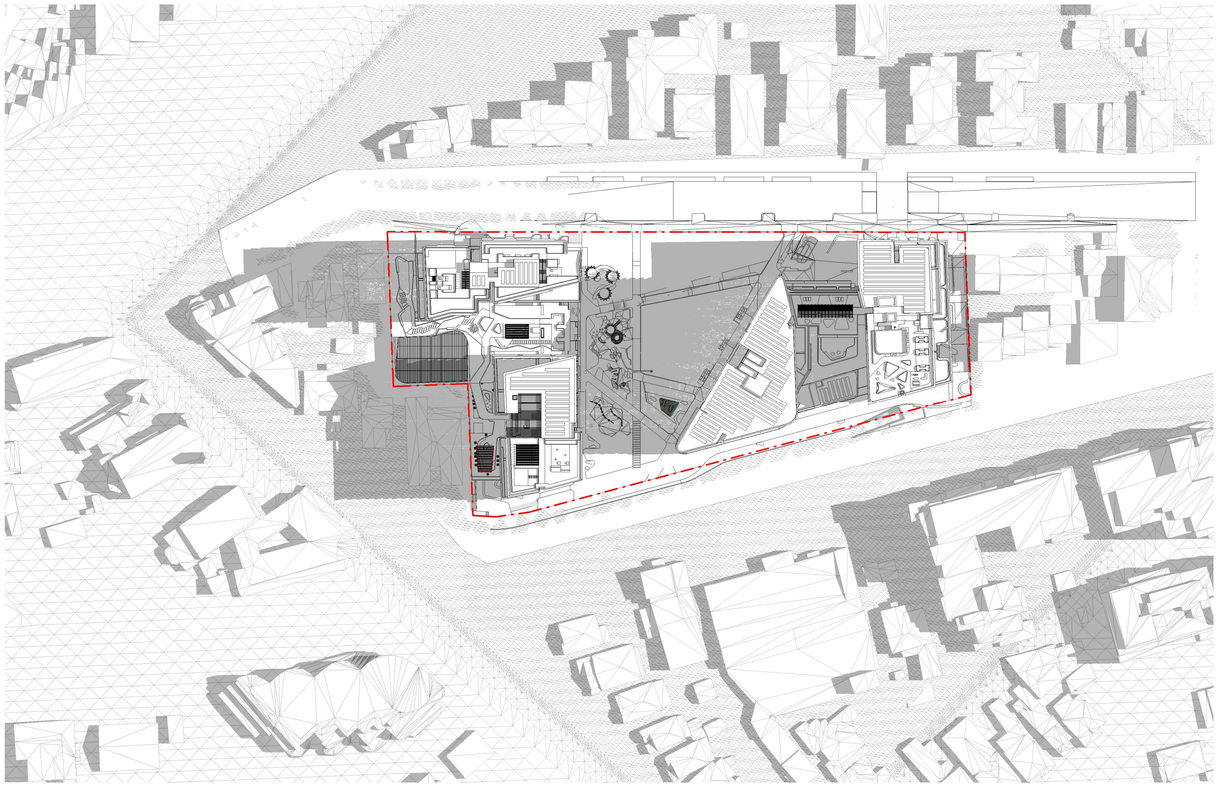
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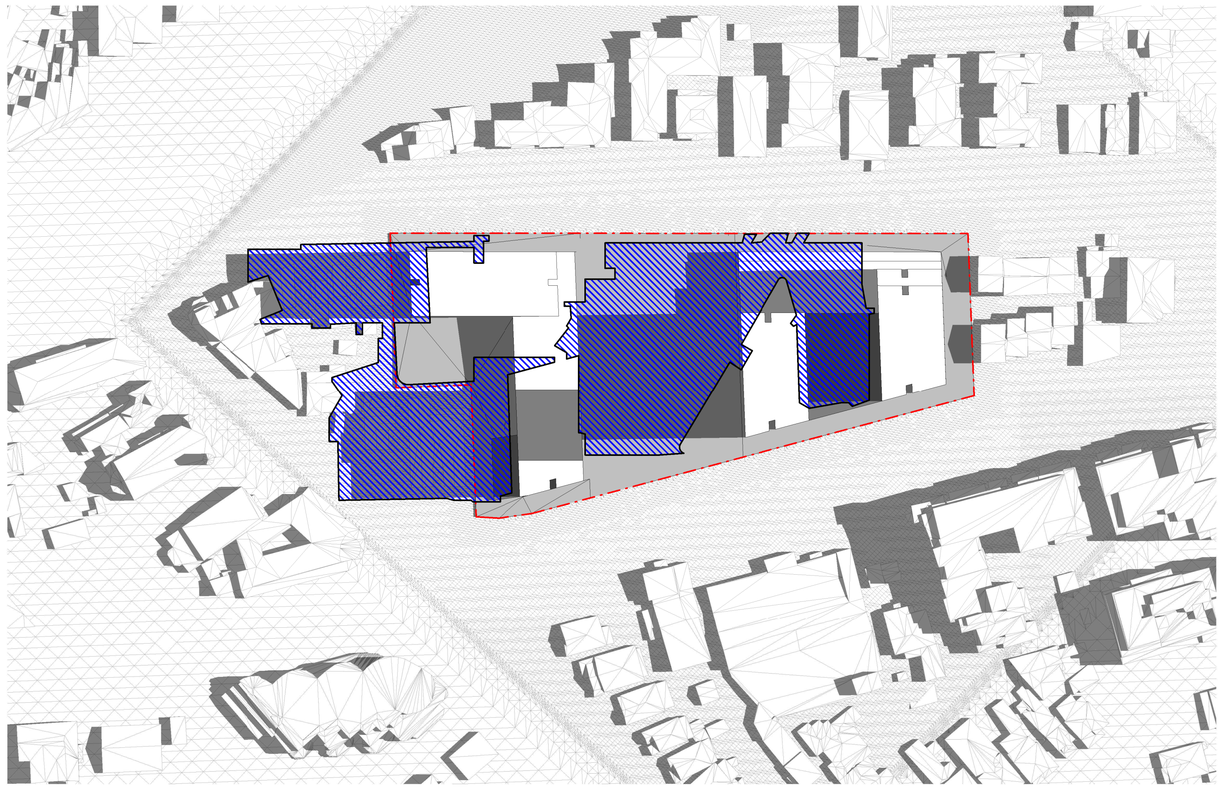
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Verified	PDS	Approved	LMC
Drawing Created (date)		Drawing Created (by)	JK, SM, AR, EC, AF
			12/22/21

Scale	Project No	Drawing No	Issue
As indicated	180319	DA 4564	B

7/02/2022 10:27:43 AM



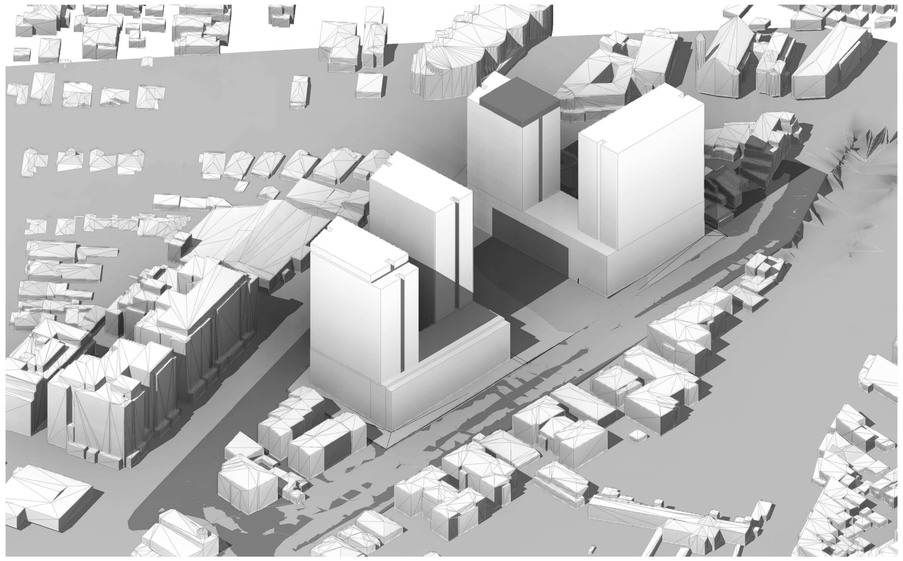
1 21 MARCH 10AM - PROPOSED
1 : 1000



2 21 MARCH 10AM - DCP SCHEME
1 : 1000



3 21 MARCH 10AM - PROPOSED



4 21 MARCH 10AM - DCP SCHEME

PROPOSED SHADOW

Amendments

Issue	Description	Date
A	ISSUED FOR DA	12/07/2021
B	ISSUED FOR DA	04/01/2022

Amendments

Issue	Description	Date

Consultant
Structural Engineer / Civil
Level 6, 73 Miller Street, North Sydney
NSW 2060
TTW

Consultant
Mechanical / Acoustic / Fire Engineer
Level 6, Building B, 207 Pacific Highway
St Leonards NSW 2065
STANTEC

Consultant
Hydraulics
Level 23, 101 Miller Street, North Sydney,
NSW 2060
JHA

Client
Billbergia Group Pty Ltd
Suite 101, 25 Angas St,
Meadowbank, NSW, 2114

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Level 7, 80 William St East Sydney NSW
Australia 2011
www.groupgsa.com

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architecture interior design urban design landscape
nom architect Lisa-Maree Carrigan 7568

Project Title
Eden Street Arncliffe

Drawing Title
PROPOSED SHADOW - 21 MARCH 10 AM (EQUINOX)

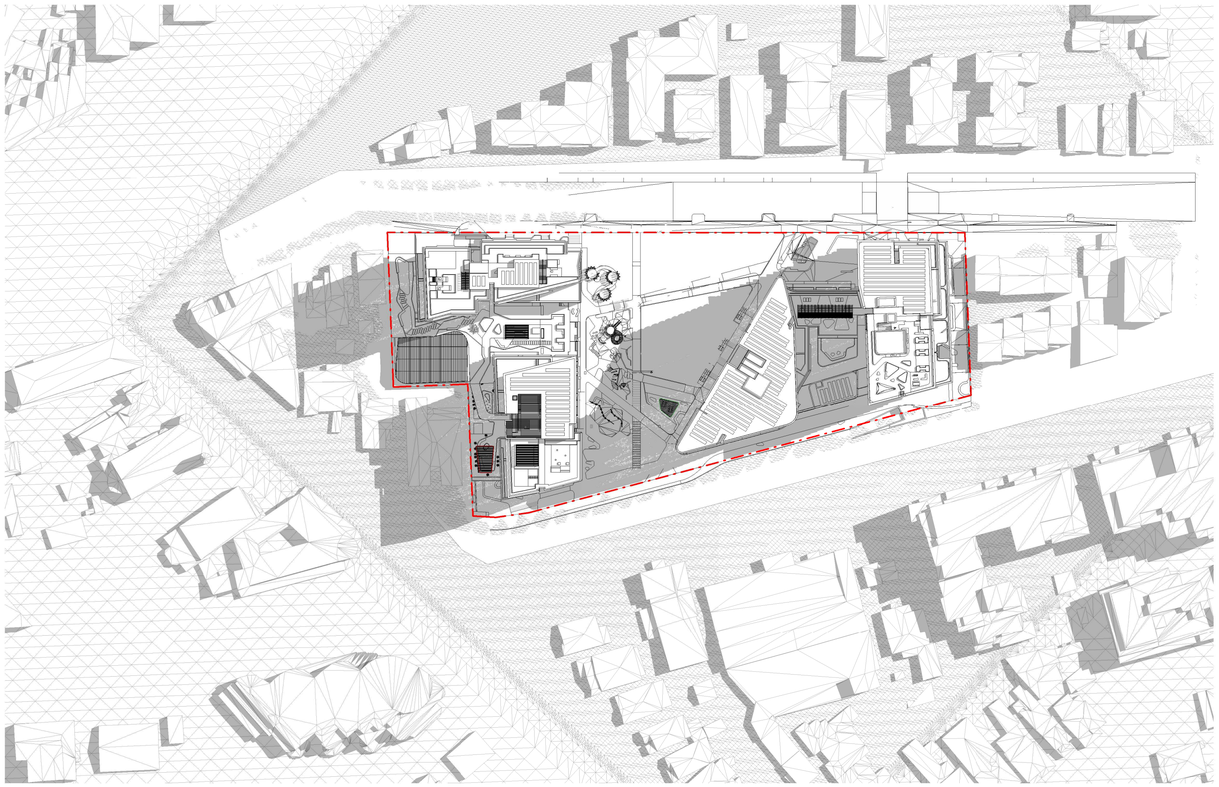
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DA SUBMISSION

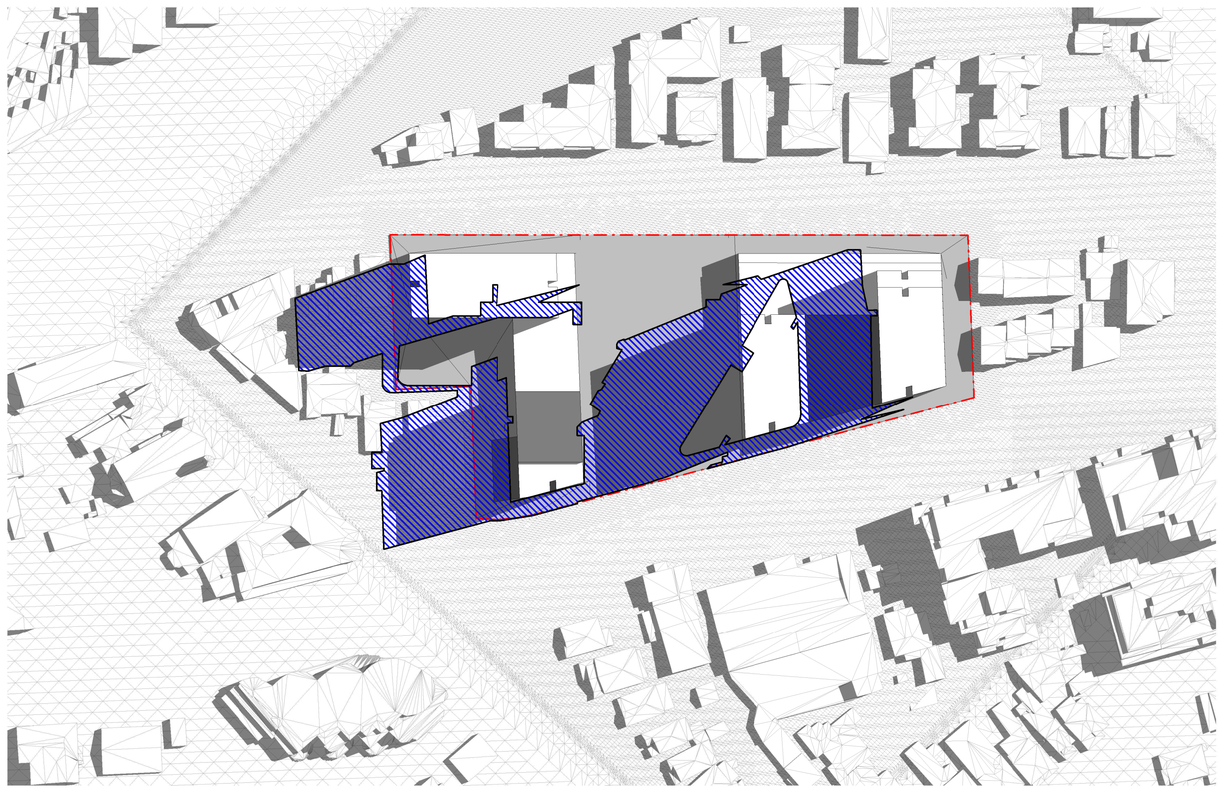
7/02/2022 10:31:38 AM

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Verified PDS		Approved	LMC
Drawing Created (date)		Drawing Created (by)	JK, SM, AR, EC, AF
			12/22/21

Scale	Project No	Drawing No	Issue
As indicated	180319	DA 4565	B



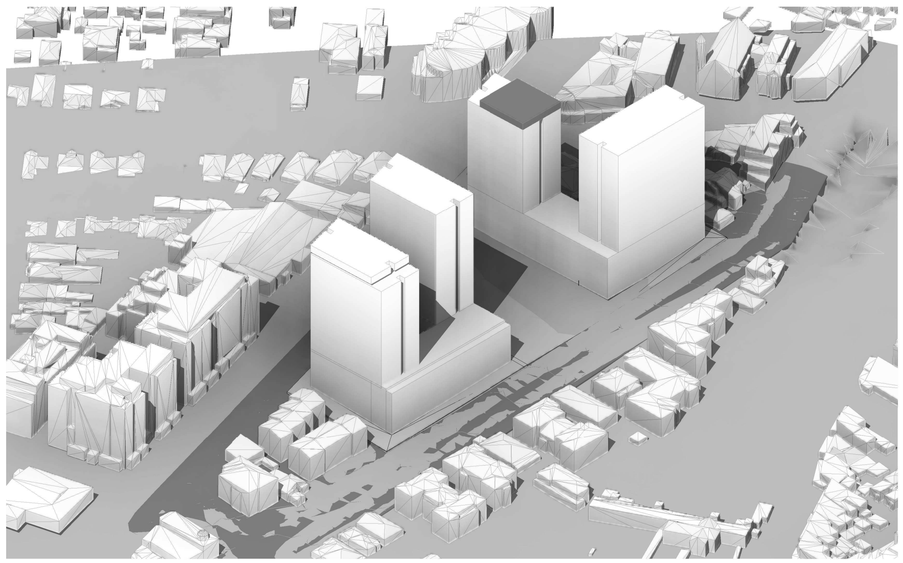
1 21 MARCH 11AM - PROPOSED
1 : 1000



2 21 MARCH 11AM - DCP SCHEME
1 : 1000



3 21 MARCH 11AM - PROPOSED



4 21 MARCH 11AM - DCP SCHEME

PROPOSED SHADOW

Amendments

Issue	Description	Date
A	ISSUED FOR DA	12/07/2021
B	ISSUED FOR DA	04/01/2022

Amendments

Issue	Description	Date

Consultant
Structural Engineer / Civil
Level 6, 73 Miller Street, North Sydney
NSW 2060
TTW

Consultant
Mechanical / Acoustic / Fire Engineer
Level 6, Building B, 207 Pacific Highway
St Leonards NSW 2065
STANTEC

Consultant
Hydraulics
Level 23, 101 Miller Street, North Sydney,
NSW 2060
JHA

Client
Billbergia Group Pty Ltd
Suite 101, 25 Angas St,
Meadowbank, NSW, 2114

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www.groupgsa.com

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architecture interior design urban design landscape
nom architect Lisa-Maree Carrigan 7568

Project Title
Eden Street Arncliffe

Drawing Title
PROPOSED SHADOW - 21 MARCH 11 AM (EQUINOX)

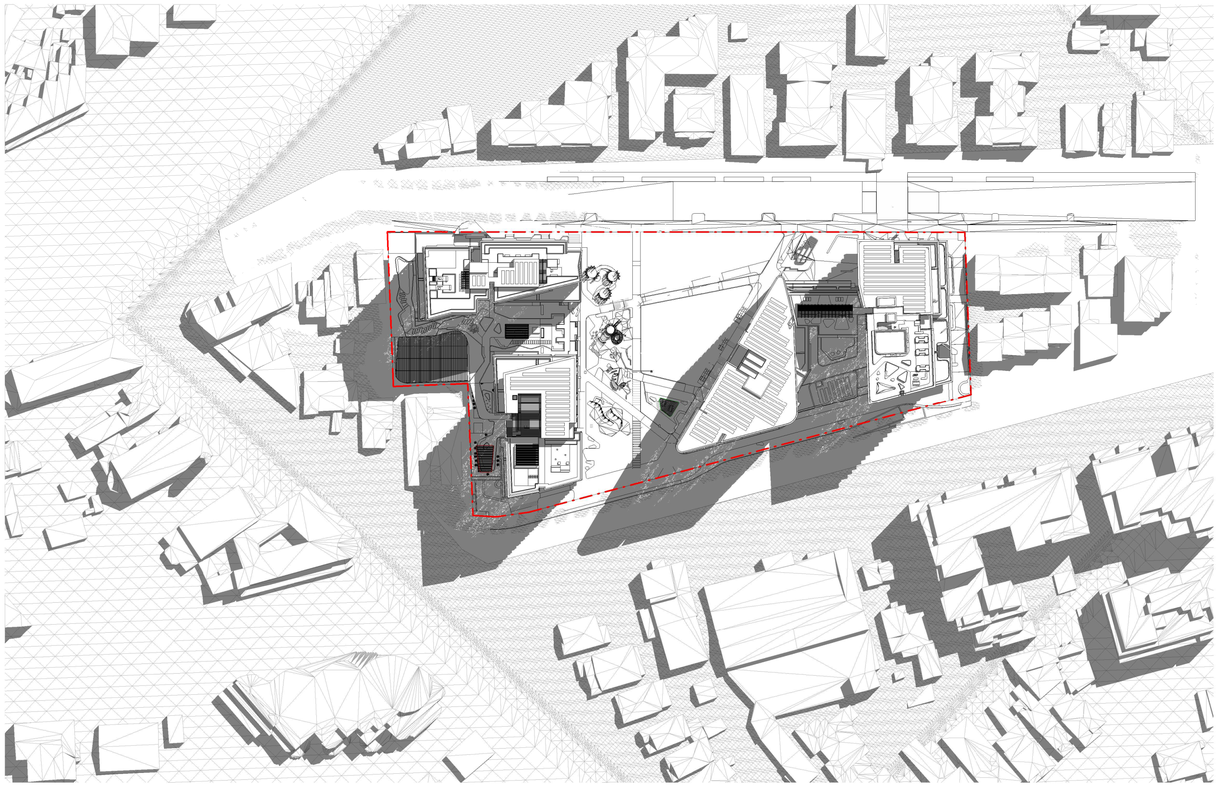
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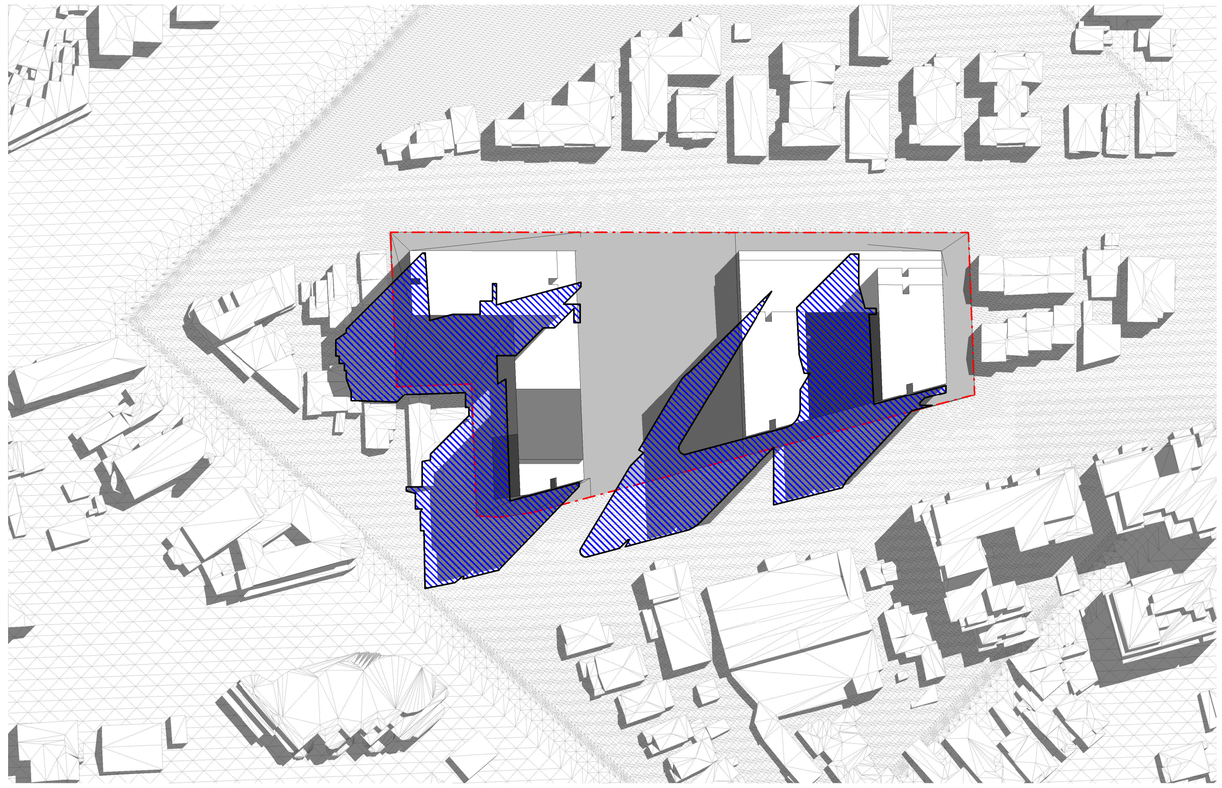
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Verified PDS		Approved	LMC
Drawing Created (date)		Drawing Created (by)	JK, SM, AR, EC, AF
			12/22/21

Scale	Project No	Drawing No	Issue
As indicated	180319	DA 4566	B



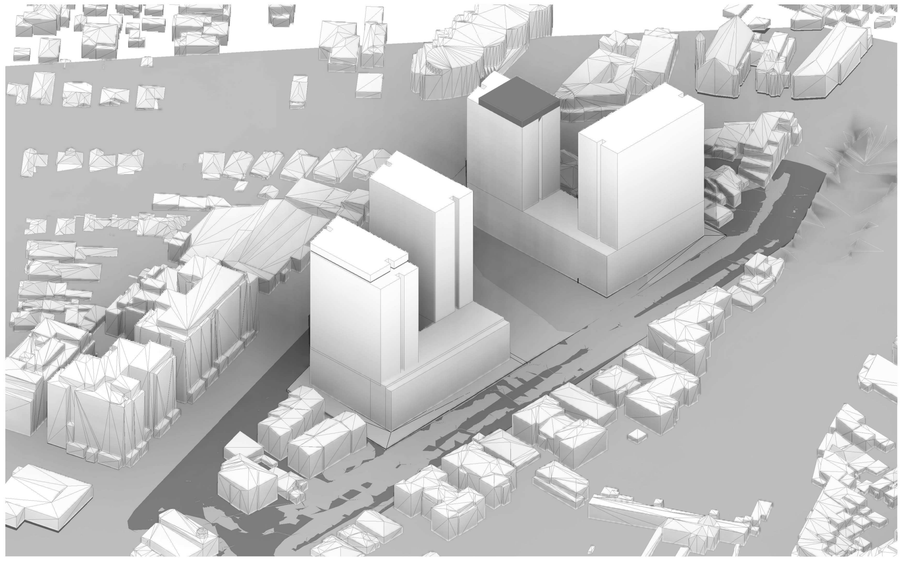
1 21 MARCH 12PM - PROPOSED
1 : 1000



2 21 MARCH 12PM - DCP SCHEME
1 : 1000



3 21 MARCH 12AM - PROPOSED



PROPOSED SHADOW

4 21 MARCH 12PM - DCP SCHEME

Amendments

Issue	Description	Date
A	ISSUED FOR DA	12/07/2021
B	ISSUED FOR DA	04/01/2022

Amendments

Issue	Description	Date

Consultant
Structural Engineer / Civil
Level 6, 73 Miller Street, North Sydney
NSW 2060
TTW

Consultant
Mechanical / Acoustic / Fire Engineer
Level 6, Building B, 207 Pacific Highway
St Leonards NSW 2065
STANTEC

Consultant
Hydraulics
Level 23, 101 Miller Street, North Sydney,
NSW 2060
JHA

Client
Billbergia Group Pty Ltd
Suite 101, 25 Angas St,
Meadowbank, NSW, 2114

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Australia 2011
www.groupgsa.com

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architecture interior design urban design landscape
nom architect Lisa-Maree Carrigan 7568

Project Title
Eden Street Arncliffe

Drawing Title
PROPOSED SHADOW - 21 MARCH 12 PM (EQUINOX)

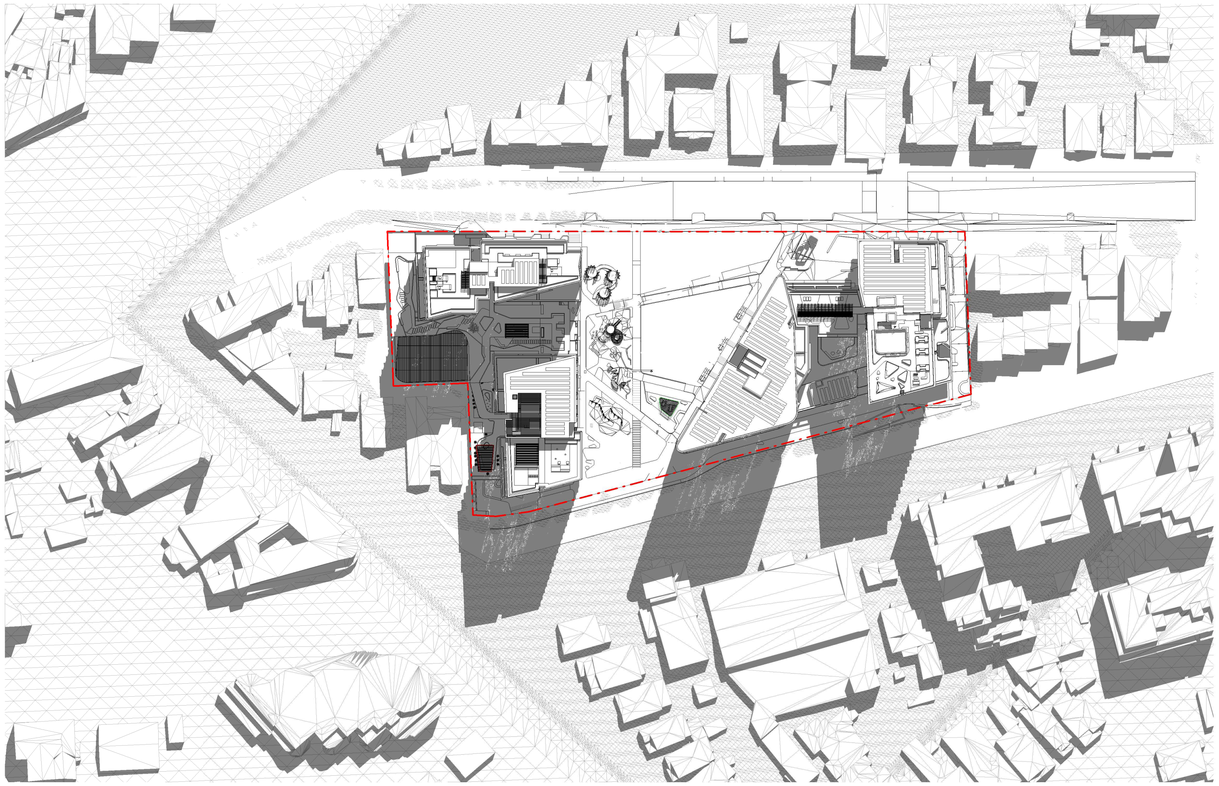
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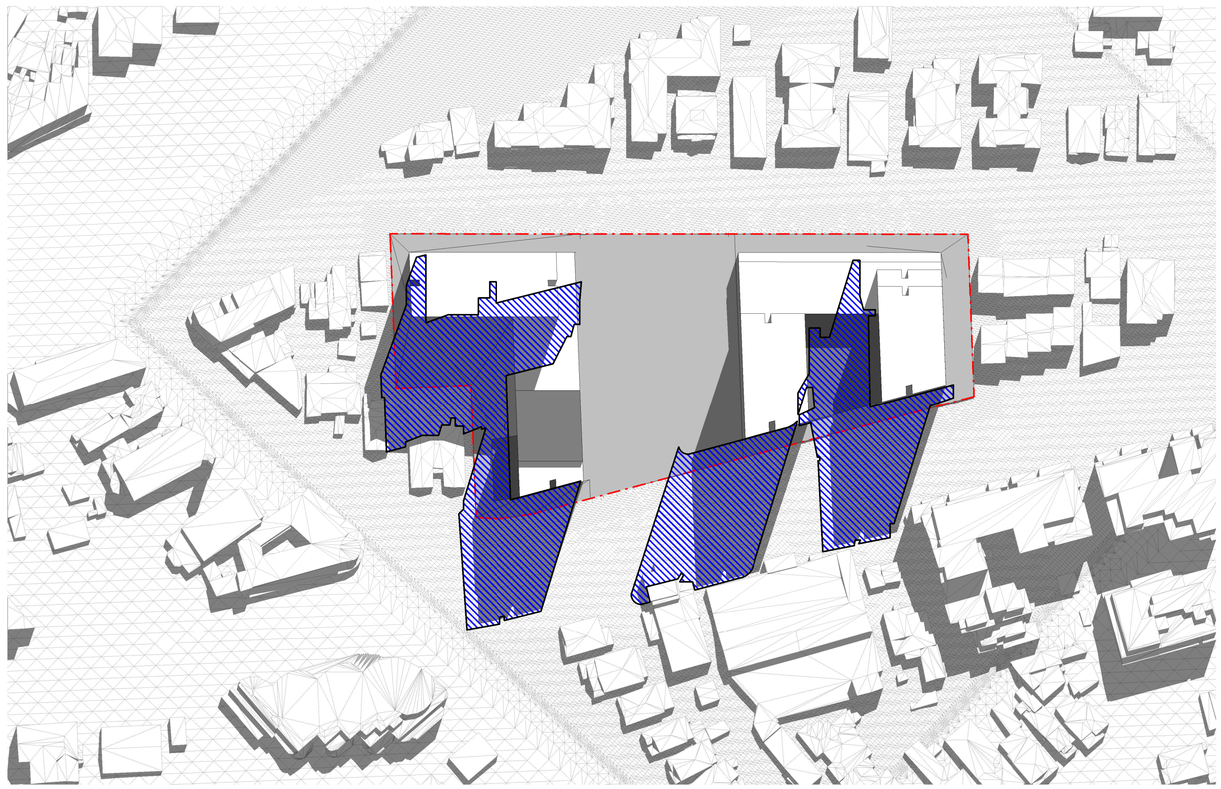
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Plotted and checked by	PDS		
Verified PDS		Approved	LMC
Drawing Created (date)		Drawing Created (by)	JK, SM, AR, EC, AF
			12/22/21

Scale	Project No	Drawing No	Issue
As indicated	180319	DA 4567	B



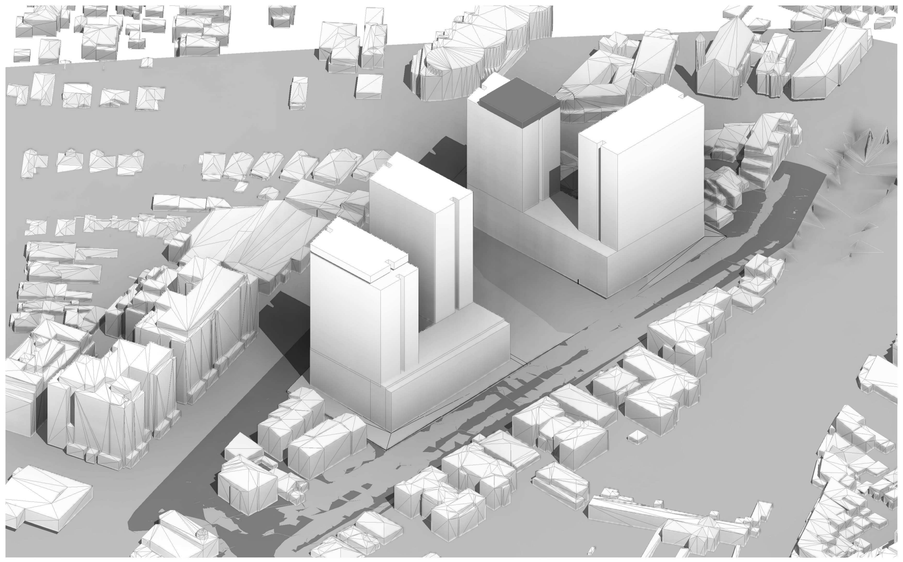
1 21 MARCH 1PM - PROPOSED
1 : 1000



2 21 MARCH 1PM - DCP SCHEME
1 : 1000



3 21 MARCH 1PM - PROPOSED



PROPOSED SHADOW

4 21 MARCH 1PM - DCP SCHEME

Amendments

Issue	Description	Date
A	ISSUED FOR DA	12/07/2021
B	ISSUED FOR DA	04/01/2022

Amendments

Issue	Description	Date

Consultant
Structural Engineer / Civil
Level 6, 73 Miller Street, North Sydney
NSW 2060
TTW

Consultant
Mechanical / Acoustic / Fire Engineer
Level 6, Building B, 207 Pacific Highway
St Leonards NSW 2065
STANTEC

Consultant
Hydraulics
Level 23, 101 Miller Street, North Sydney,
NSW 2060
JHA

Client
Billbergia Group Pty Ltd
Suite 101, 25 Angas St,
Meadowbank, NSW, 2114

Billbergia
creating communities®

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Level 7, 80 William St East Sydney NSW
Australia 2011
www.groupgsa.com

T +612 9361 4144 F +612 9332 3458

architecture interior design urban design landscape
nom architect Lisa-Maree Carrigan 7568

Project Title
Eden Street Arncliffe

Drawing Title
PROPOSED SHADOW - 21 MARCH 1 PM (EQUINOX)

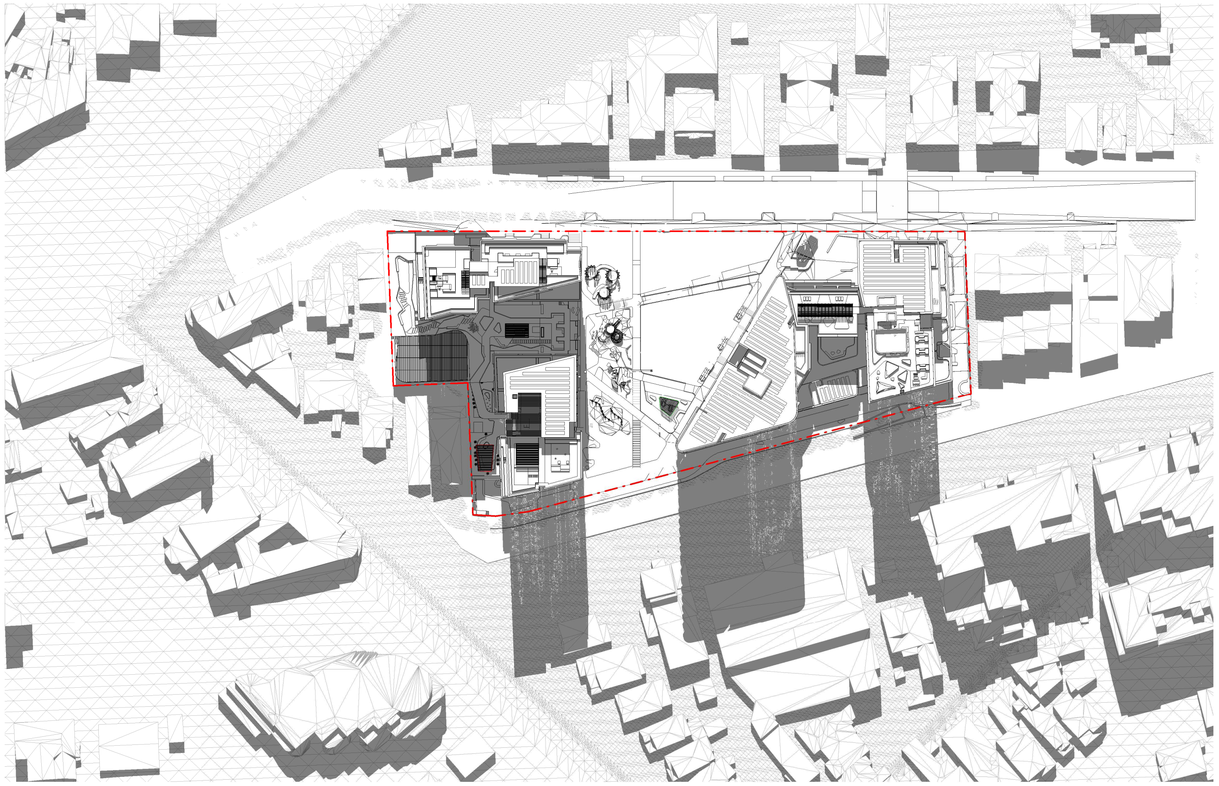
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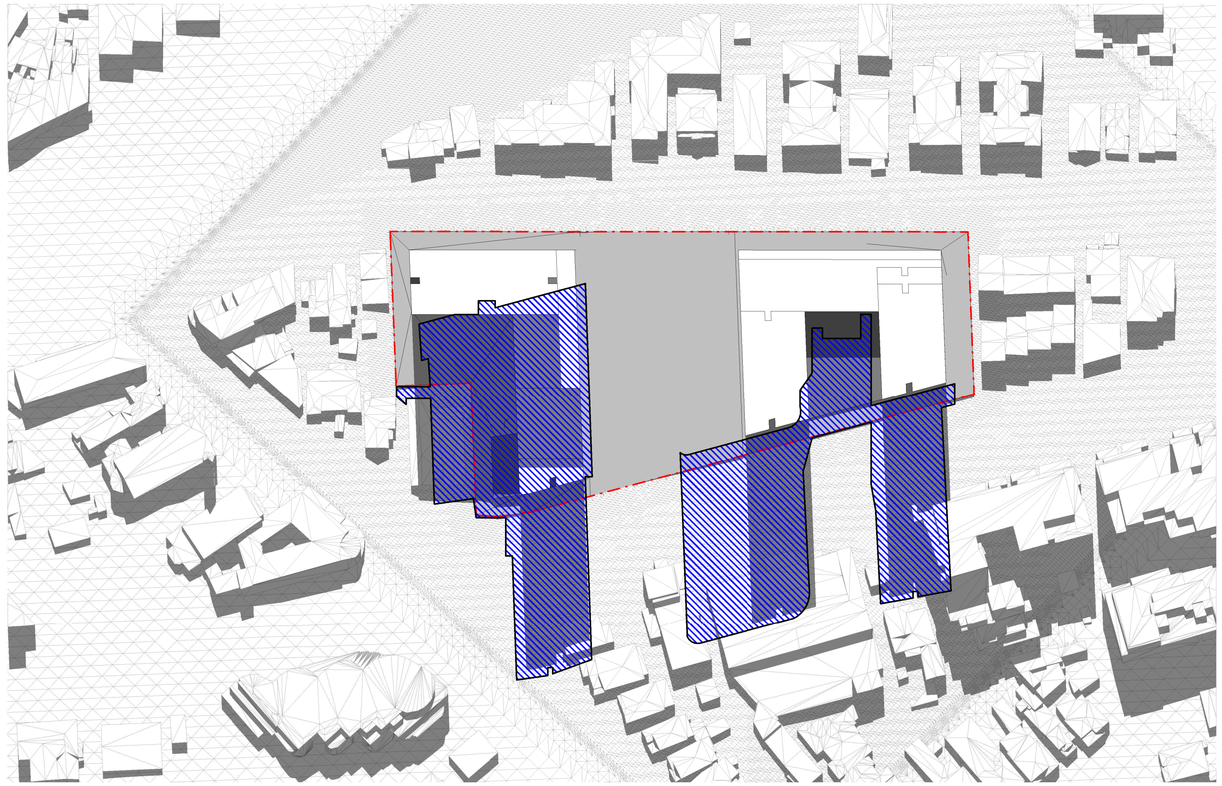
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Verified PDS		Approved	LMC
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			12/22/21

Scale	Project No	Drawing No	Issue
As indicated	180319	DA 4568	B



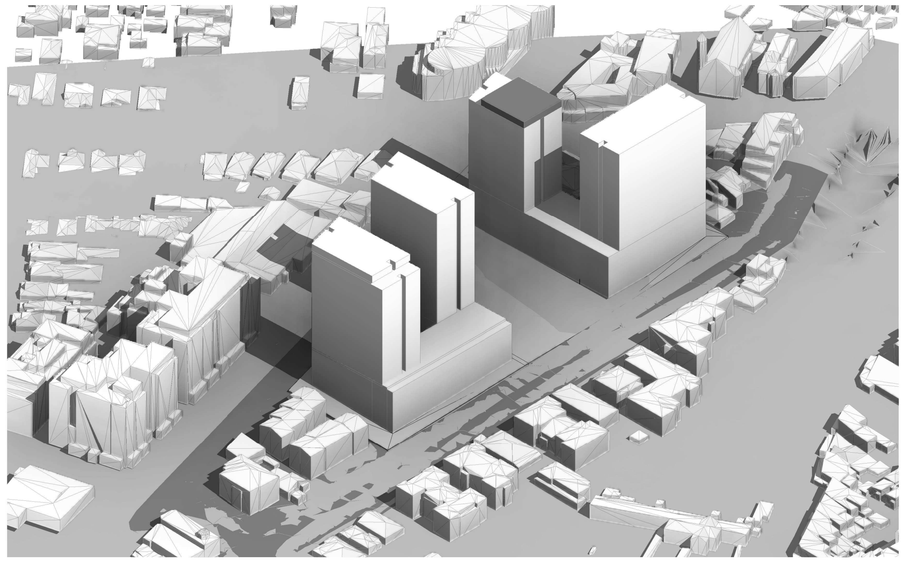
3 21 MARCH 2PM - PROPOSED
1 : 1000



4 21 MARCH 2PM - DCP SCHEME
1 : 1000



1 21 MARCH 2PM - PROPOSED



PROPOSED SHADOW

2 21 MARCH 2PM - DCP SCHEME

Amendments

Issue	Description	Date
A	ISSUED FOR DA	12/07/2021
B	ISSUED FOR DA	04/01/2022

Amendments

Issue	Description	Date

Consultant
Structural Engineer / Civil
Level 6, 73 Miller Street, North Sydney
NSW 2060
TTW

Consultant
Mechanical / Acoustic / Fire Engineer
Level 6, Building B, 207 Pacific Highway
St Leonards NSW 2065
STANTEC

Consultant
Hydraulics
Level 23, 101 Miller Street, North Sydney,
NSW 2060
JHA

Client
Billbergia Group Pty Ltd
Suite 101, 25 Angas St,
Meadowbank, NSW, 2114

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creating communities®

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www.groupgsa.com

T +612 9361 4144 F +612 9332 3458

architecture interior design urban design landscape
nom architect Lisa-Maree Carrigan 7568

Project Title
Eden Street Arncliffe

Drawing Title
PROPOSED SHADOW - 21 MARCH 2 PM (EQUINOX)

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DA SUBMISSION

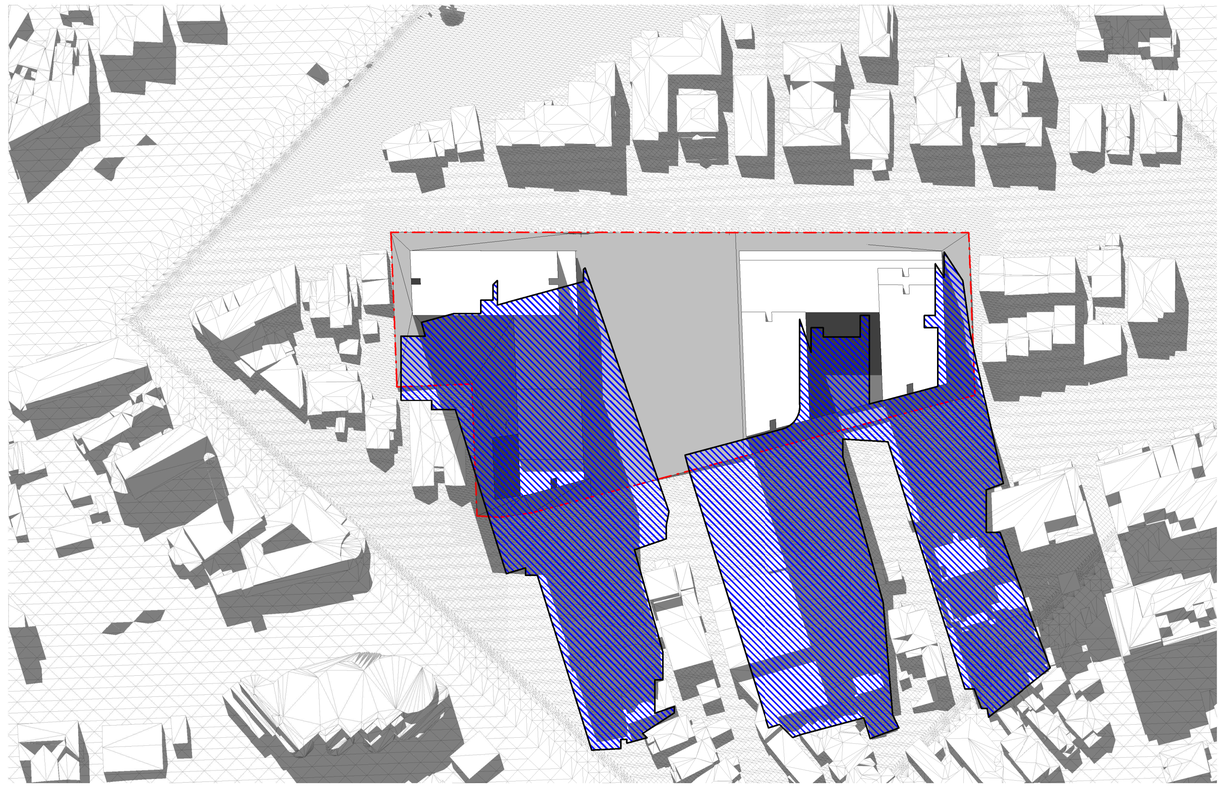
Plotted and checked by	PDS		
Verified	PDS	Approved	LMC
Drawing Created (date)		Drawing Created (by)	JK, SM, AR, EC, AF
			12/22/21

Scale	Project No	Drawing No	Issue
As indicated	180319	DA 4569	B

7/02/2022 10:46:49 AM



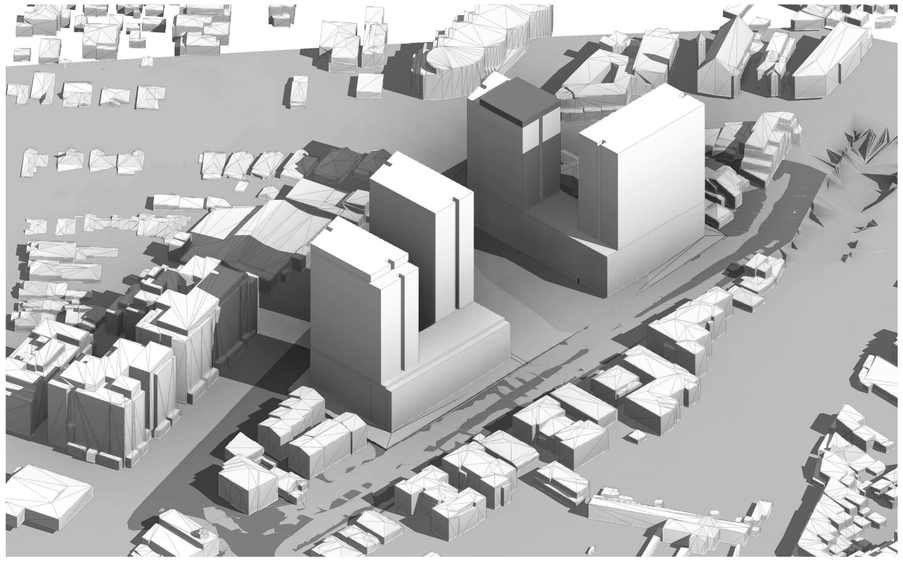
1 21 MARCH 3PM - PROPOSED
1 : 1000



2 21 MARCH 3PM - DCP SCHEME
1 : 1000



3 21 MARCH 3PM - PROPOSED



4 21 MARCH 3PM - DCP SCHEME

PROPOSED SHADOW

Amendments

Issue	Description	Date
A	ISSUED FOR DA	12/07/2021
B	ISSUED FOR DA	04/01/2022

Amendments

Issue	Description	Date

Consultant
Structural Engineer / Civil
Level 6, 73 Miller Street, North Sydney
NSW 2060
TTW

Consultant
Mechanical / Acoustic / Fire Engineer
Level 6, Building B, 207 Pacific Highway
St Leonards NSW 2065
STANTEC

Consultant
Hydraulics
Level 23, 101 Miller Street, North Sydney,
NSW 2060
JHA

Client
Billbergia Group Pty Ltd
Suite 101, 25 Angas St,
Meadowbank, NSW, 2114

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www.groupgsa.com

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architecture interior design urban design landscape
nom architect Lisa-Maree Carrigan 7568

Project Title
Eden Street Arncliffe

Drawing Title
PROPOSED SHADOW - 21 MARCH 3 PM (EQUINOX)

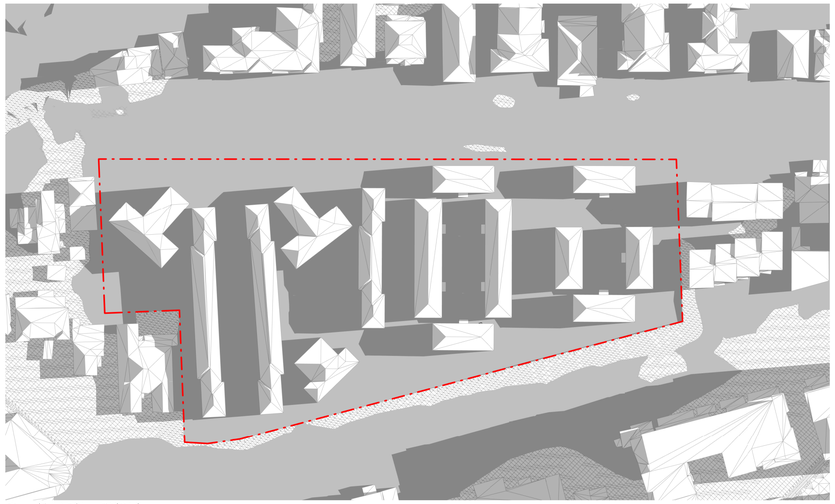
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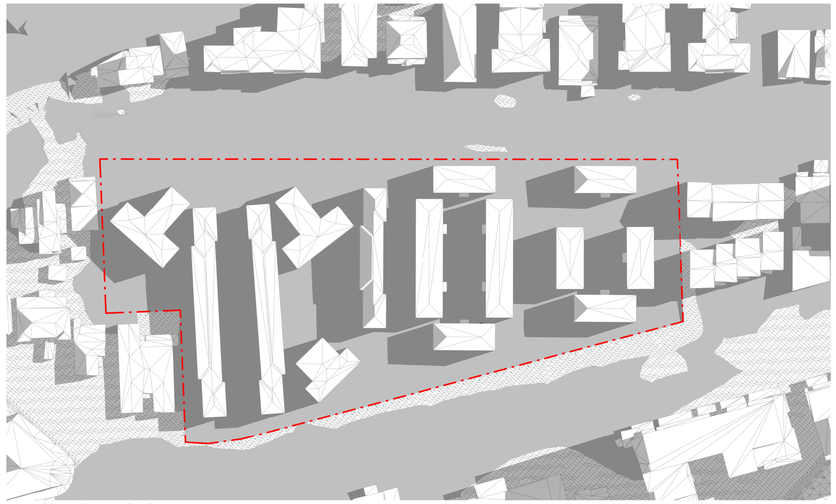
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Plotted and checked by	PDS		
Verified PDS		Approved	LMC
Drawing Created (date)		Drawing Created (by)	JK, SM, AR, EC, AF
			12/22/21

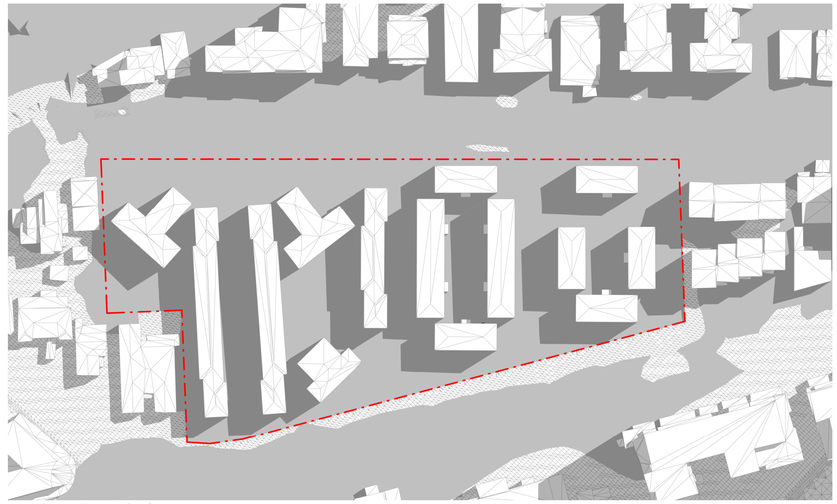
Scale	Project No	Drawing No	Issue
As indicated	180319	DA 4570	B



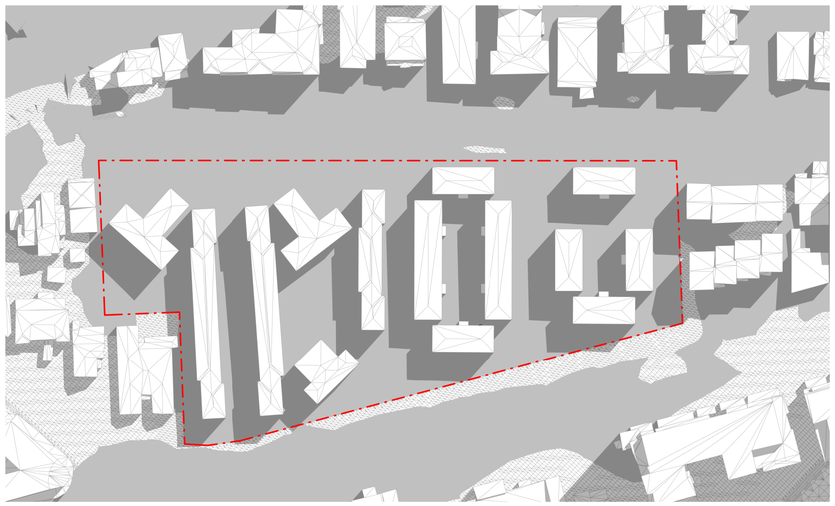
1 21 JUNE 9AM - EXISTING
1 : 1000



2 21 JUNE 10 AM - EXISTING
1 : 1000



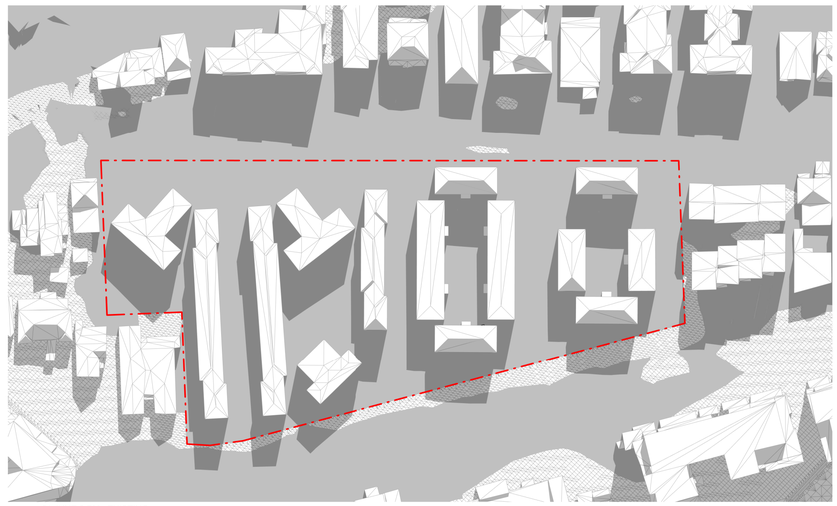
3 21 JUNE 11 AM - EXISTING
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4 21 JUNE 12 PM - EXISTING
1 : 1000



5 21 JUNE 1 PM - EXISTING
1 : 1000



6 21 JUNE 2 PM - EXISTING
1 : 1000



7 21 JUNE 3 PM - EXISTING
1 : 1000

Amendments

Issue	Description	Date
-	ISSUED FOR GANSW 03	24/03/2021
A	ISSUED FOR DA	28/05/2021

Amendments

Issue	Description	Date

Consultant
Structural Engineer / Civil
Level 6, 73 Miller Street, North Sydney
NSW 2060
TTW

Consultant
Mechanical / Acoustic / Fire Engineer
Level 6, Building B, 207 Pacific Highway
St Leonards NSW 2065
STANTEC

Consultant
Hydraulics
Level 23, 101 Miller Street, North Sydney,
NSW 2060
JHA

Client
Billbergia Group Pty Ltd
Suite 101, 25 Angas St,
Meadowbank, NSW, 2114

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Australia 2011
www.groupgsa.com

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architecture interior design urban design landscape
nom architect Lisa-Maree Carrigan 7568

Project Title
Eden Street Arncliffe

Drawing Title
EXISTING SHADOW - 21 JUNE (WINTER)

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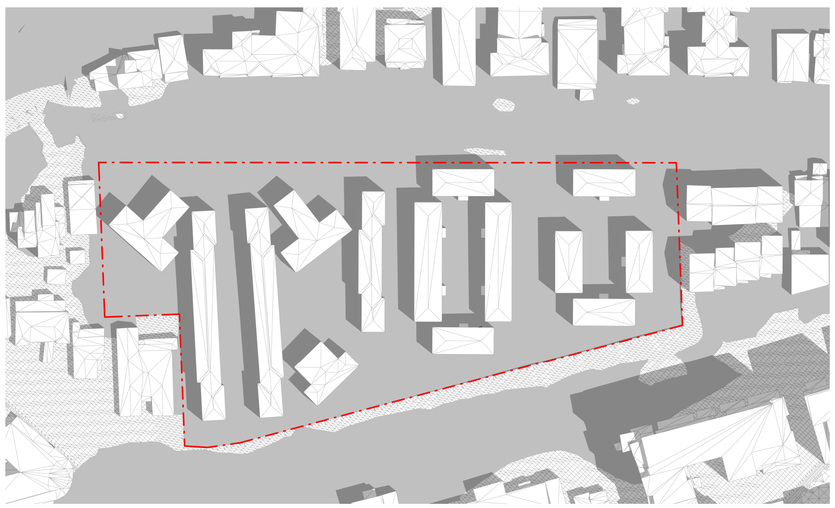
North Point

DA SUBMISSION

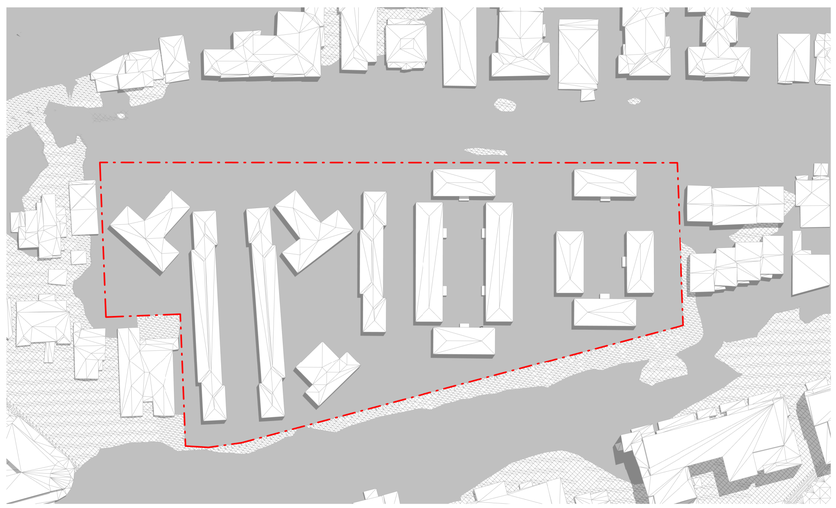
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Plotted and checked by	PDS
Verified PDS	Approved LMC
Drawing Created (date)	Drawing Created (by) JK, SM, AR, AO, AF
	03/15/21

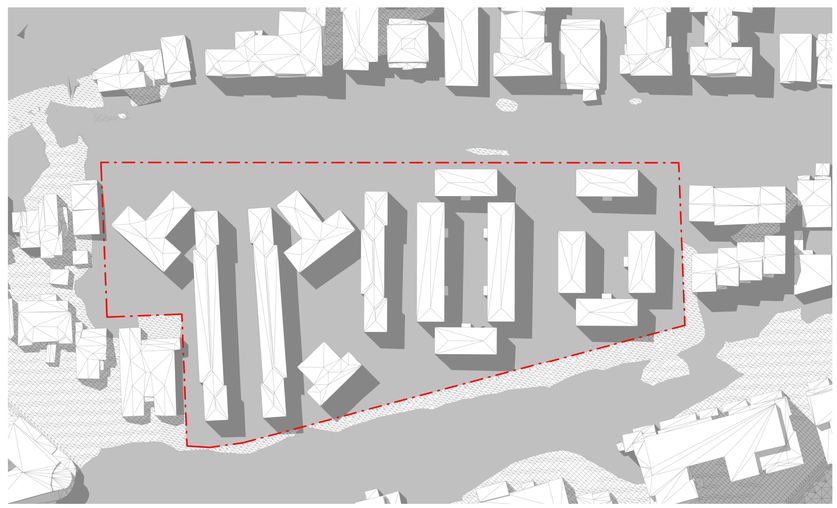
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1 : 1000	180319	DA 4580	A



1 21 DEC 9 AM - EXISTING
1 : 1000



2 21 DEC 12 PM - EXISTING
1 : 1000



3 21 DEC 3 PM - EXISTING
1 : 1000

Amendments

Issue	Description	Date
A	ISSUED FOR DA	28/05/2021

Amendments

Issue	Description	Date

Consultant
Structural Engineer / Civil
Level 6, 73 Miller Street, North Sydney
NSW 2060
TTW

Consultant
Mechanical / Acoustic / Fire Engineer
Level 6, Building B, 207 Pacific Highway
St Leonards NSW 2065
STANTEC

Consultant
Hydraulics
Level 23, 101 Miller Street, North Sydney,
NSW 2060
JHA

Client
Billbergia Group Pty Ltd
Suite 101, 25 Angas St,
Meadowbank, NSW, 2114

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architecture interior design urban design landscape
nom architect Lisa-Maree Carrigan 7568

Project Title
Eden Street Arncliffe

Drawing Title
EXISTING SHADOW - 21 DEC (SUMMER)

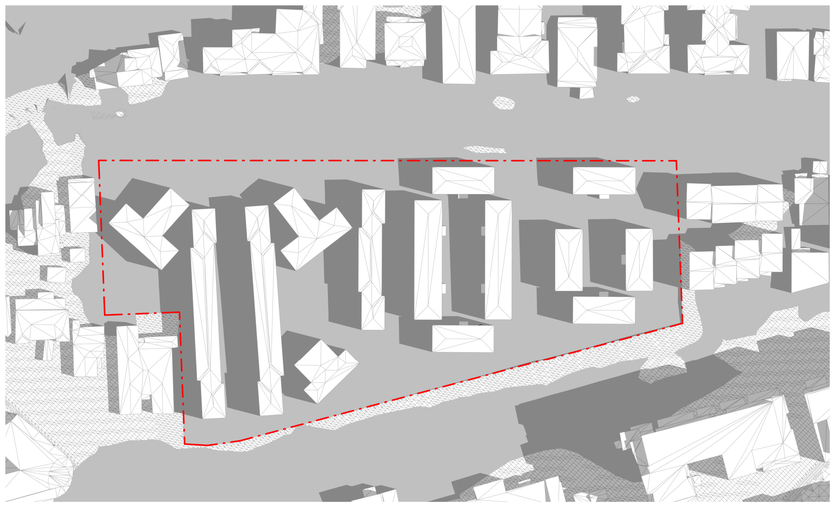
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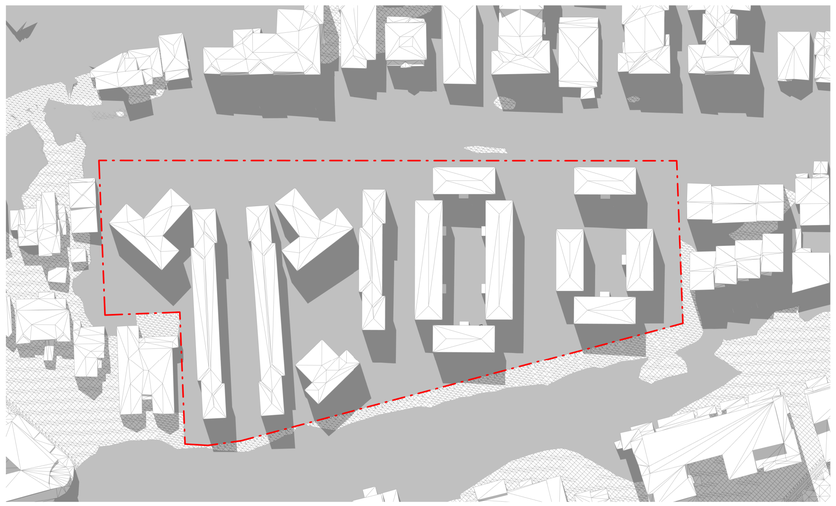
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1 21 MARCH 9 AM - EXISTING
1 : 1000



2 21 JUNE 3 PM - EXISTING
1 : 1000



3 21 MARCH 3 PM - EXISTING
1 : 1000

North Point

DA SUBMISSION

12/jul/21 4:14:46 PM

Amendments

Issue	Description	Date
A	ISSUED FOR DA	28/05/2021

Amendments

Issue	Description	Date

Consultant
Structural Engineer / Civil
Level 6, 73 Miller Street, North Sydney
NSW 2060
TTW

Consultant
Mechanical / Acoustic / Fire Engineer
Level 6, Building B, 207 Pacific Highway
St Leonards NSW 2065
STANTEC

Consultant
Hydraulics
Level 23, 101 Miller Street, North Sydney,
NSW 2060
JHA

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architecture interior design urban design landscape
nom architect Lisa-Maree Carrigan 7568

Project Title
Eden Street Arncliffe

Drawing Title
EXISTING SHADOW - 21 MARCH (EQUINOX)

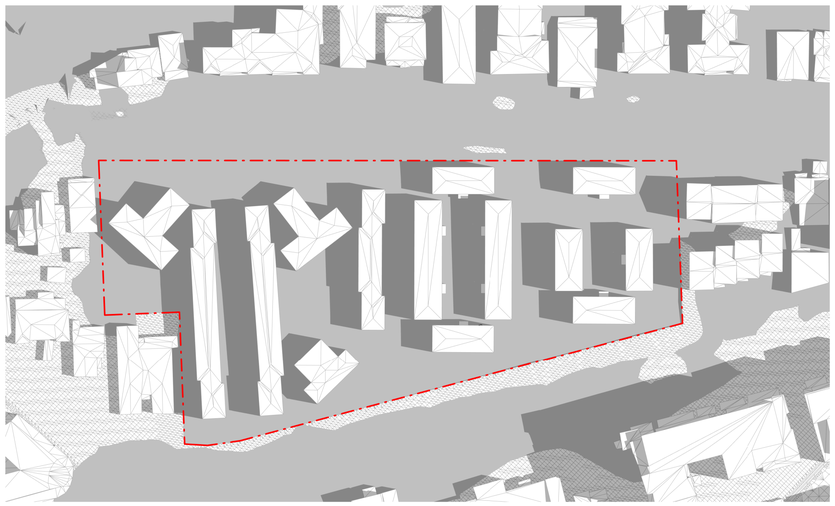
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Plotted and checked by PDS

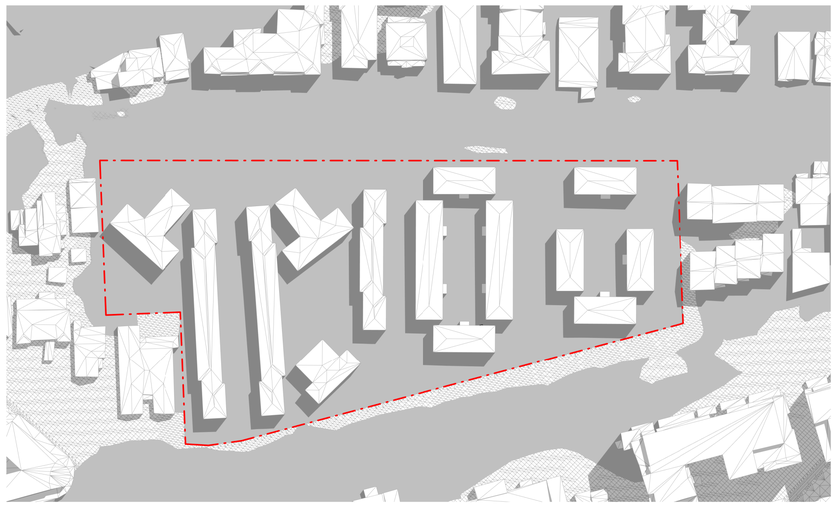
Verified PDS Approved LMC

Drawing Created (date) 03/15/21 Drawing Created (by) JK, SM, AR, AO, AF

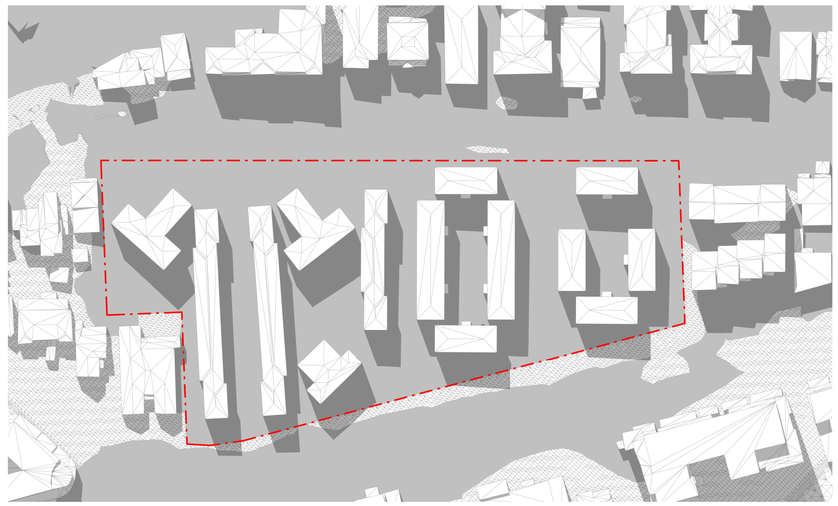
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1 21 SEPT 9AM - EXISTING
1 : 1000



2 21 SEPT 12 PM - EXISTING
1 : 1000



3 21 JUNE 3 PM - EXISTING
1 : 1000

North Point

Amendments

Issue	Description	Date
A	ISSUED FOR DA	28/05/2021

Amendments

Issue	Description	Date

Consultant
Structural Engineer / Civil
Level 6, 73 Miller Street, North Sydney
NSW 2060
TTW

Consultant
Mechanical / Acoustic / Fire Engineer
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St Leonards NSW 2065
STANTEC

Consultant
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architecture interior design urban design landscape
nom architect Lisa-Maree Carrigan 7568

Project Title
Eden Street Arncliffe

Drawing Title
EXISTING SHADOW - 21 SEPT (EQUINOX)

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12-Jul-21 4:15:03 PM

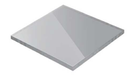
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Verified	PDS	Approved	LMC
Drawing Created (date)		Drawing Created (by)	JK, SM, AR, AO, AF
			03/15/21

Scale	Project No	Drawing No	Issue
1 : 1000	180319	DA 4583	A

Aluminum Framed Glazing and Balustrades

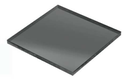


GB01
Glass balustrade
Grey glass

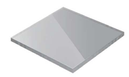


GB02
Clear glass



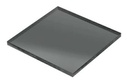


AL01
Aluminum framed window
Grey glass

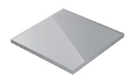


AL02
Clear glass





WG01
Wintergarden
Grey glass



WG02
Clear glass



MB01
Metal balustrade
Teal Zinc colour



MB02
Metal balustrade
Perforated Metal



MB03
Metal balustrade
Palisade

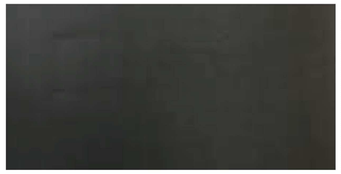
Metal



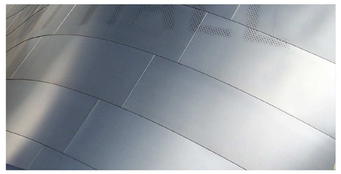
MT01
Metal facade elements
Silver/Grey Titanium



MT02
Metal facade elements and cladding
Teal Zinc



MT03
Metal facade elements and cladding
Black



MT04
Feature metal to entrances and kiosk
Brushed aluminum/similar

Concrete



CONC01
Precast Concrete
Gloss finish



CONC02
Precast Concrete
White



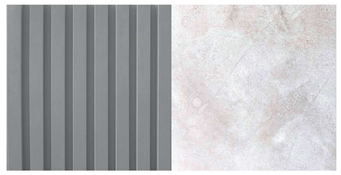
CONC03
Precast Concrete
Black



CONC04
Concrete
Dark finish



CONC05
Profiled panel
With dark finish



CONC06
Profiled panel
With light finish

Brick

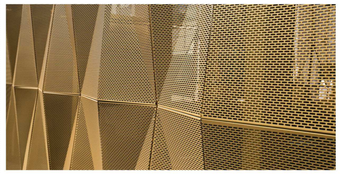


BR01
Brick, Natural.
Stretcher Bond Pattern



BR02
Brick, Glass.
Stretcher Bond Pattern

Screens



SC01
Perforated screens
Bronze metal



SC02
Vertical louver screen
To match MT01



SC03
Vertical/Horizontal Batten screen (see elevations)
To match MT03



SC04
Vertical/Horizontal Batten screen (see elevations)
To match MT03



PT01
prefinished panel/metal panel
Bronze look

Amendments

Issue	Description	Date
A	ISSUED FOR DA	28/05/2021
B	ISSUED FOR DA	22/12/2021

Amendments

Issue	Description	Date

Consultant
Structural Engineer / Civil
Level 6, 73 Miller Street, North Sydney
NSW 2060
TTW

Consultant
Mechanical / Acoustic / Fire Engineer
Level 6, Building B, 207 Pacific Highway
St Leonards NSW 2065
STANTEC

Consultant
Hydraulics
Level 23, 101 Miller Street, North Sydney,
NSW 2060
JHA

Client
Billbergia Group Pty Ltd
Suite 101, 25 Angas St,
Meadowbank, NSW, 2114

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www.groupgsa.com

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architecture interior design urban design landscape
nom architect Lisa-Maree Carrigan 7568

Project Title
Eden Street Arncliffe

Drawing Title
MATERIALS

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Plotted and checked by	PDS		
Verified	PDS	Approved	LMC
Drawing Created (date)		Drawing Created (by)	JK, SM, AR, EC, AF
			05/20/21

Scale	Project No	Drawing No	Issue
	180319	DA 4600	B

4/07/2022 8:44:05 PM



Amendments

Issue	Description	Date
A	ISSUED FOR DA	28/05/2021
B	ISSUED FOR DA	22/12/2021

Amendments

Issue	Description	Date

Consultant

Structural Engineer / Civil
Level 6, 73 Miller Street, North Sydney
NSW 2060
TTW

Consultant

Mechanical / Acoustic / Fire Engineer
Level 6, Building B, 207 Pacific Highway
St Leonards NSW 2065
STANTEC

Consultant

Hydraulics
Level 23, 101 Miller Street, North Sydney,
NSW 2060
JHA

Client

Billbergia Group Pty Ltd
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Meadowbank, NSW, 2114

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www.groupgsa.com

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architecture interior design urban design landscape
nom architect Lisa-Maree Carrigan 7568

Project Title

Eden Street Arncliffe

Drawing Title

CGI - 1

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Verified	PDS	Approved	LMC
Drawing Created (date)		Drawing Created (by)	JK, SM, AR, EC, AF
			09/02/20

Scale	Project No	Drawing No	Issue
	180319	DA 4650	B



Amendments

Issue	Description	Date
A	ISSUED FOR DA	28/05/2021
B	ISSUED FOR DA	22/12/2021

Amendments

Issue	Description	Date

Consultant

Structural Engineer / Civil
Level 6, 73 Miller Street, North Sydney
NSW 2060
TTW

Consultant

Mechanical / Acoustic / Fire Engineer
Level 6, Building B, 207 Pacific Highway
St Leonards NSW 2065
STANTEC

Consultant

Hydraulics
Level 23, 101 Miller Street, North Sydney,
NSW 2060
JHA

Client

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Suite 101, 25 Angas St,
Meadowbank, NSW, 2114

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architecture interior design urban design landscape
nom architect Lisa-Maree Carrigan 7568

Project Title

Eden Street Arncliffe

Drawing Title

CGI - 2

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Verified	PDS	Approved	LMC
Drawing Created (date)		Drawing Created (by)	JK, SM, AR, EC, AF
			03/15/21

Scale	Project No	Drawing No	Issue
	180319	DA 4651	B



Amendments

Issue	Description	Date
A	ISSUED FOR DA	28/05/2021
B	ISSUED FOR DA	22/12/2021

Amendments

Issue	Description	Date

Consultant

Structural Engineer / Civil
Level 6, 73 Miller Street, North Sydney
NSW 2060
TTW

Consultant

Mechanical / Acoustic / Fire Engineer
Level 6, Building B, 207 Pacific Highway
St Leonards NSW 2065
STANTEC

Consultant

Hydraulics
Level 23, 101 Miller Street, North Sydney,
NSW 2060
JHA

Client

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nom architect Lisa-Maree Carrigan 7568

Project Title

Eden Street Arncliffe

Drawing Title

CGI - 3

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Drawing Created (date)		Drawing Created (by)	JK, SM, AR, EC, AF
			04/19/21

Scale	Project No	Drawing No	Issue
	180319	DA 4652	B

DRAWING NOT IN USE

Amendments

Issue	Description	Date
A	ISSUED FOR DA	28/05/2021
B	ISSUED FOR DA	22/12/2021

Amendments

Issue	Description	Date

Consultant

Structural Engineer / Civil
Level 6, 73 Miller Street, North Sydney
NSW 2060
TTW

Consultant

Mechanical / Acoustic / Fire Engineer
Level 6, Building B, 207 Pacific Highway
St Leonards NSW 2065
STANTEC

Consultant

Hydraulics
Level 23, 101 Miller Street, North Sydney,
NSW 2060
JHA

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Meadowbank, NSW, 2114

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architecture interior design urban design landscape
nom architect Lisa-Maree Carrigan 7568

Project Title

Eden Street Arncliffe

Drawing Title

CGI - 4

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20/12/2021 12:21:33 PM

Plotted and checked by	PDS		
Verified	PDS	Approved	LMC
Drawing Created (date)		Drawing Created (by)	JK, SM, AR, EC, AF
			04/19/21

Scale	Project No	Drawing No	Issue
	180319	DA 4653	B

DRAWING NOT IN USE

Amendments

Issue	Description	Date
1	ISSUED FOR INFORMATION	25/05/2021
A	ISSUED FOR DA	28/05/2021
B	ISSUED FOR DA	22/12/2021

Amendments

Issue	Description	Date

Consultant

Structural Engineer / Civil
Level 6, 73 Miller Street, North Sydney
NSW 2060
TTW

Consultant

Mechanical / Acoustic / Fire Engineer
Level 6, Building B, 207 Pacific Highway
St Leonards NSW 2065
STANTEC

Consultant

Hydraulics
Level 23, 101 Miller Street, North Sydney,
NSW 2060
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Client

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Suite 101, 25 Angas St,
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architecture interior design urban design landscape
nom architect Lisa-Maree Carrigan 7568

Project Title

Eden Street Arncliffe

Drawing Title

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20/12/2021 12:21:48 PM

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Verified	PDS	Approved	LMC
Drawing Created (date)		Drawing Created (by)	JK, SM, AR, EC, AF
			06/25/21

Scale	Project No	Drawing No	Issue
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