

DEVELOPMENT APPLICATION

12-22 Willan Drive

Cartwright, 2168



DWG No.	Title	REV
DA000	Title Page	B
DA100	Site Analysis	A
DA101	Site Plan	B
DA102	Demolition Plan	A
DA200	Ground - Level 2 Plans	B
DA201	Level 03 - Roof Plans	B
DA300	Typical Units	A
DA301	Adaptable Units	A
DA400	Elevations	B
DA401	Elevations & Section	B
DA402	Perspectives	B
DA500	GFA Calculations	A
DA501	Solar Access Calculations	A
DA502	Cross Ventilation Calculations	A
DA503	Communal Open Space Calculations	A
DA504	Deep Soil Zone Calculations	A
DA505	Development Summary	A
DA701	Shadow Diagrams 1	A
DA702	Shadow Diagrams 2	A



Certificate no. 0001786060
Assessor Name: Amir Gigis
Accreditation no. 20579
Certificate date: 10 August 2017
Dwelling Address: 12-16 Willan Drive
Cartwright, NSW
2168
www.nahers.gov.au



BASIX NOTES

Water efficiency:

- 5,000L rainwater tank per building to collect water from a roof area of 500m²
- Rainwater to serve all common landscape irrigation on ground floor 389m per building.
- 4-Star WELS rated toilets
- 5-Star WELS kitchen taps and bathroom taps
- 3-Star WELS rated showers (>4.5 but <= 6 L/min)
- 5-Star WELS rated toilet for Carers Toilet on GF
- 5-Star WELS rated taps for Carers Toilet on GF

Thermal Comfort:

- R3.0 bulk insulation to all external exposed walls (total R-value for the wall system R3.24)
- R1.5 slab insulation for all suspended floors (total R-value for the suspended floor, R1.71)
- Total R-value for party walls R0.28
- R2.5 bulk insulation to all external exposed ceiling area (total R-value for the ceiling system with air gap R2.66 (including exposed to balcony above))
- All windows to achieve a total U-value of 5.4 and SHGC of 0.49 (NFRC)
- Provision of NO downlights/spolights in the apartments or provision of thermally sealed fittings
- Weather seals for all exhaust & ventilation vents

Energy Efficiency:

- Gearless traction lifts with Variable Voltage & Frequency (VVVF) motors
- No Mechanical ventilation in plants/service rooms
- Exhaust ventilation only in garbage rooms
- Natural Ventilation (no mechanical ventilation) in hallways
- LED lighting for all lifts and lighting connected to lift call button
- LED for garbage room/ plant room/ service room with motion sensor control
- LED lighting with daylight sensors and motion sensors for GF lobbies and all other hallways
- 5 Star instantaneous gas hot water system for each individual dwelling
- Individual fans ducted to facade for kitchen, bathroom and laundry exhaust and interlocked to light
- Gas cooktops and electric ovens
- Dedicated LED lighting for all internal areas in apartments and bedrooms
- ceiling fans for living rooms and bedrooms
- Common area clothes line
- Indoor clothes drying line (including balconies)

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Cartwright, NSW 2168

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12-22 Willan Drive
Cartwright, NSW 2168

1. This plan is prepared by the Surveyor General of New South Wales and is subject to the provisions of the Survey Act 2009 (NSW) and the Survey Regulation 2009 (NSW). It is not to be used for any purpose other than that for which it is prepared.

2. This plan is prepared by the Surveyor General of New South Wales and is subject to the provisions of the Survey Act 2009 (NSW) and the Survey Regulation 2009 (NSW). It is not to be used for any purpose other than that for which it is prepared.

REFER TO SITE SURVEY FOR ALL INFORMATION RELATING TO EXISTING SITE DATA.

Drawn: [Name] Date: [Date] By: [Name] Description: [Description]

Client Details: [Details]
 Project Details: [Details]
 Survey Details: [Details]

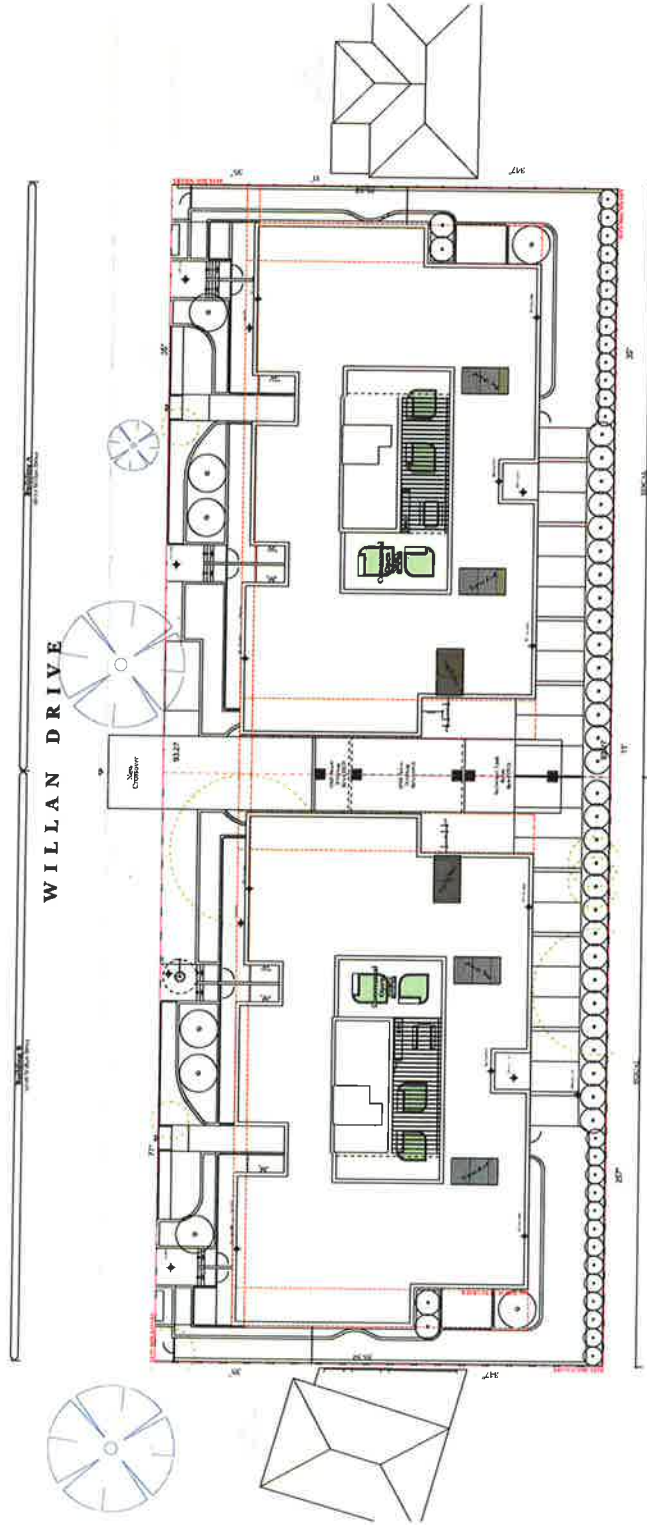
DKO

1201-1202 (NSW) Pty Ltd
 1201-1202 (NSW) Pty Ltd
 1201-1202 (NSW) Pty Ltd

Project Name: [Name]
 Project Address: [Address]
 Project Number: [Number]

Drawn By: [Name]
 Checked By: [Name]
 Scale: [Scale]

Drawing Number: **DA101**
 Revision: **A**



Site Plan



Certificate no.: 0001855840
 Assessor Name: Amir Giris
 Accreditation no.: 20579
 Certificate date: 31 August 2017



Dwelling Address: 12-22 Willan Drive
 Cantrignt, NSW 2168

www.nathers.gov.au

1. This drawing is to be used in conjunction with the site plan and the site investigation report. It is not to be used as a standalone document.

2. The site plan and the site investigation report are the primary documents for this project. This drawing is a secondary document.

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REFER TO SITE SURVEY FOR ALL INFORMATION RELATING TO EXISTING SITE DATA.

Rev: 1.0 Date: 10/10/2023
 Drawn: [Name] Checked: [Name]
 Scale: 1:1000
 Date: 10/10/2023

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 Project: [Name]
 Location: [Name]

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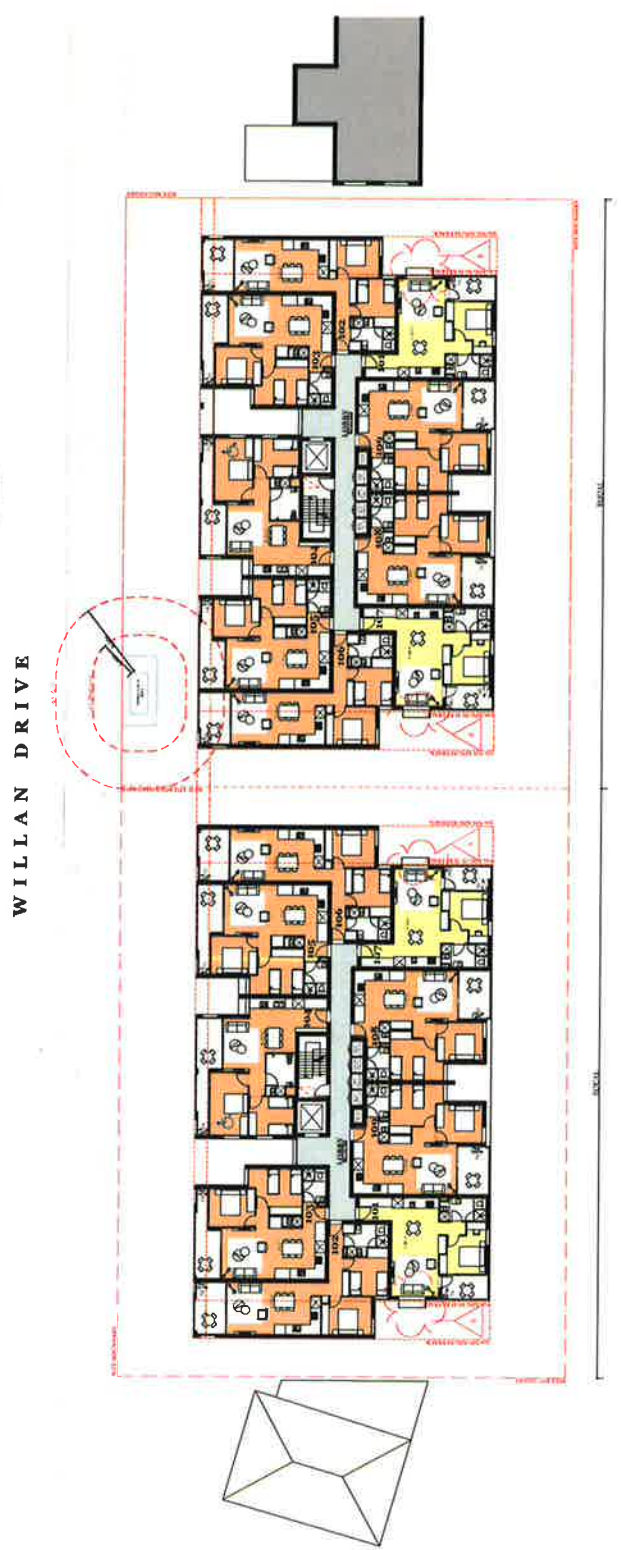
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 Location: [Name]

Project: [Name]
 Location: [Name]

Project: [Name]
 Location: [Name]



Ground Floor Plan



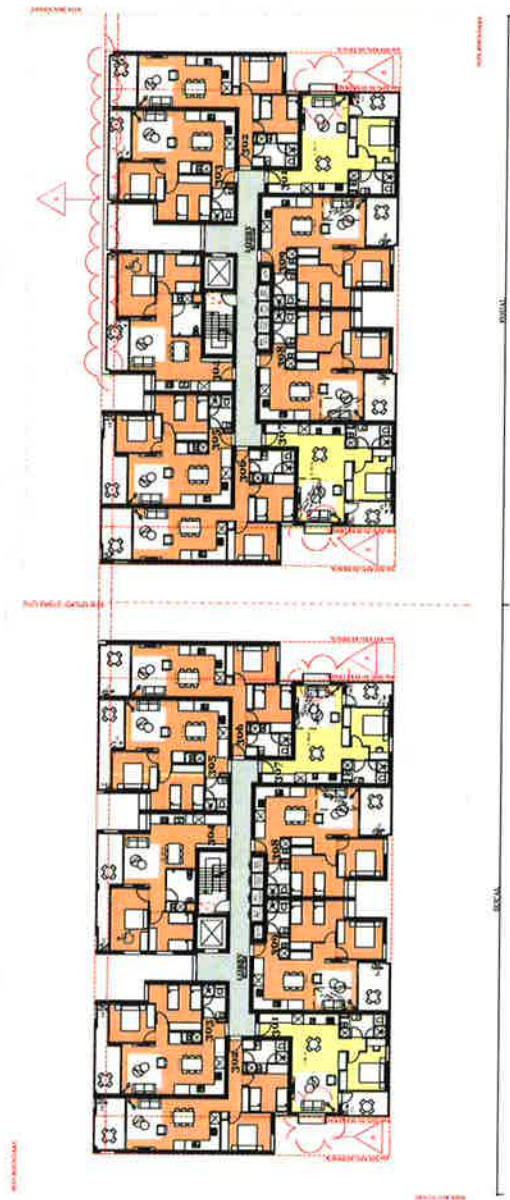
First & Second Floor Plans

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 Location: [Name]

Project: [Name]
 Location: [Name]

Project: [Name]
 Location: [Name]

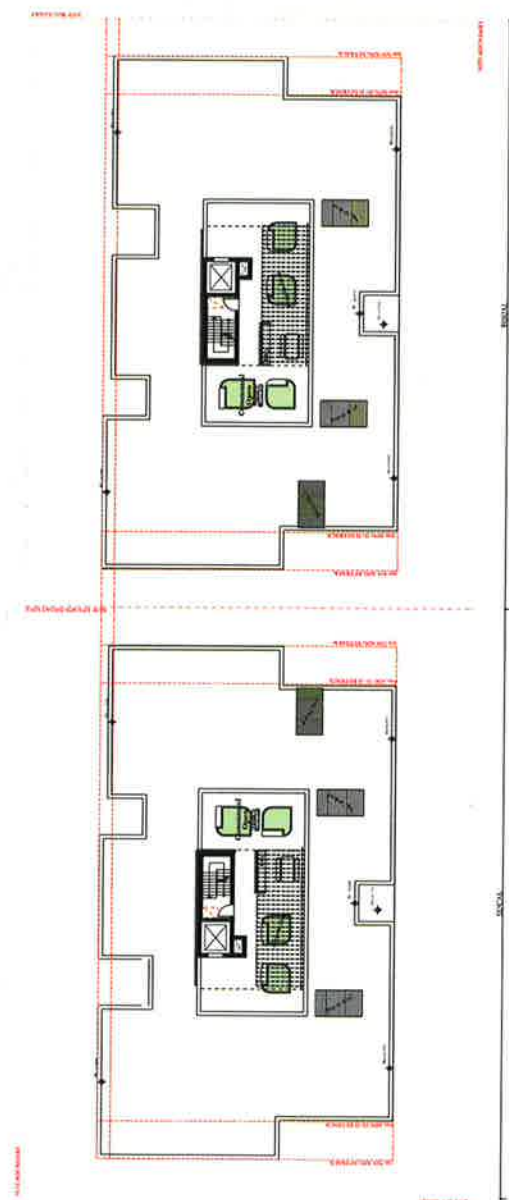
WILLAN DRIVE



○ Level 3 Floor Plan

Rev.	Date	By	Chk.	Description
1	2/26/2017	AV	11	Balance of Unassigned Applications
2	10/07/18	AD	11	Balance of Unassigned Applications

WILLAN DRIVE



Roof Level Plan

Class Details
T 10:30-11:59 AM
Enrollment: 3 seats, 22
SCS 344 Design Community Modeling

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IN VIEW

 Springer

10

11433 *Neofasciaria* (Nelson) P. J. L.
by Robert W. H.
Nelson, 1944
11434 *Neofasciaria* (Nelson) P. J. L.
by Robert W. H.
Nelson, 1944

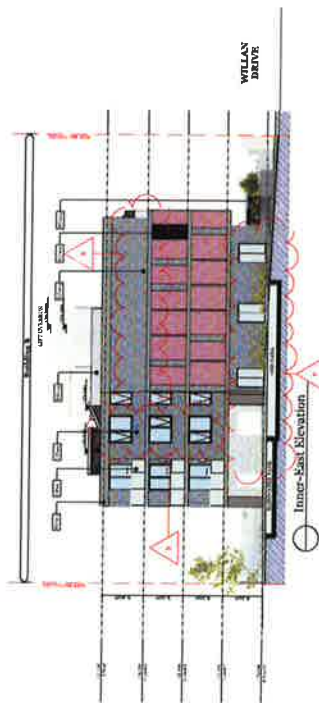
800.451.7000
www.dan.com

Project Address
13-02 William Drive,
Carverton, NSW 2168
2034
203

1990

Planning Scenario	Planning Name	Planning Phase	Level (by - Road Planning)
...	...	...	...

Drawing Number **DA201**
Revision **B**



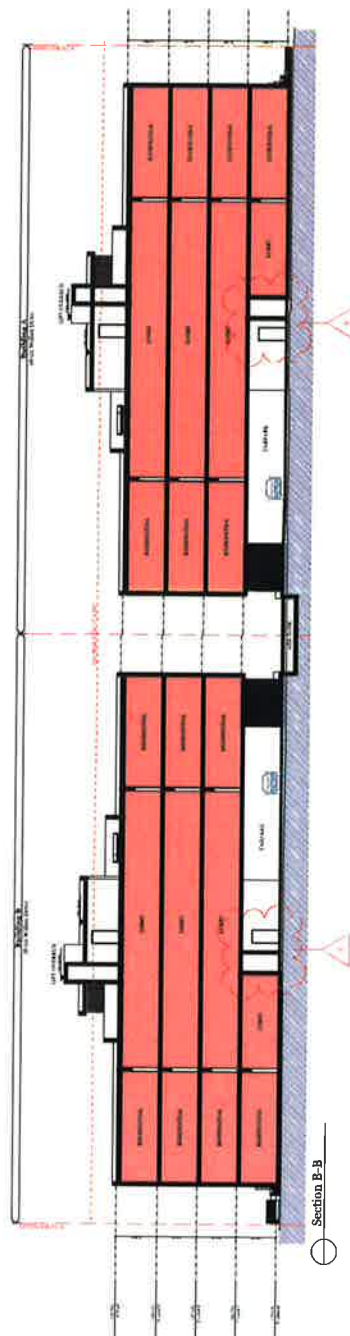
West Elevation



East Elevation



Section A-A



Section B-B

External Finishes Legend EF-01: Mid-Gray Paint EF-02: White Paint EF-03: Colorbond Grey EF-04: Brownish-Red Brick EF-05: Dark-Gray Brick EF-06: White Brick EF-07: Translucent Glass Balustrade EF-08: Powder Coated Metal Screens EF-09: Metal Fence EF-10: Light Gray Paint	
	
	
	
	
	

Chen, D.
T +86 10 6359 4438
R.ally@uic.edu.cn

Conclusion
6. 3 characteristics of diamonds

in view

D&D Architecture (NSW) Pty Ltd
139 Bickford Street
Sydney, NSW 2010
NSW International Architects
Suite 401, Level 5, 70-74
Crown Street, Sydney NSW 2000

www.godiva.com.au
www.allies.com.au
 M/N: 181 950 700 5340

Project Number	11534
Project Address	12-22 William Drive, Cherry Hill, NJ 08003

INBIOCTI

Drawing Series
Drawing Name

Drawing Number **DA401**
Revision **B**



Unit Type 3

PREPARED FOR THE U.S. ENVIRONMENTAL PROTECTION AGENCY
BY THE U.S. GEOLOGICAL SURVEY
WATER RESOURCES DIVISION
WASHINGTON, D.C. 20506

Item	Date	By	Chk	Description
	10/10/2017	dy		Balance f/c: 1,000,000,000 of 10/10/2017

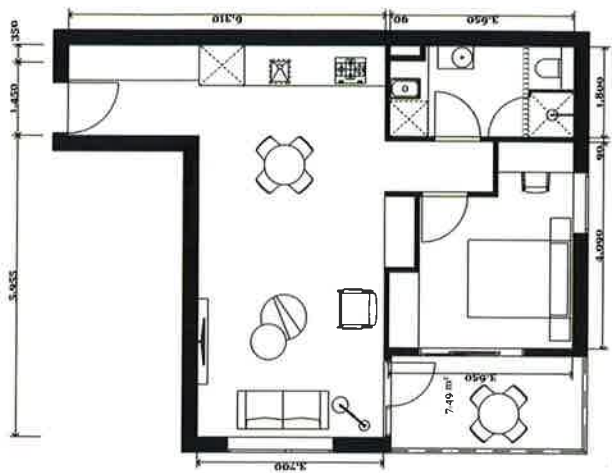
7.6
Average star rating

**NATIONWIDE
HOUSE**
NATIONWIDE REALTY

Certificate no.:
Assessor Name
Accreditation no.
Certificate date
Dwelling Address
12-22 Willan Drive
Cantrignt, NSW
2168



www.nalpers.gov.au



Unit Type 5

Drawing Number **DA300**
Revision **A**

Class: **Health**
 Date: **10/10/2019**
 Page: **1**

14. $\frac{1}{2} \log_2 16 = 2$

NORTHROP C GRUPO

in view

SLK
FloodMite

 Springer

21

21

NSW Nominal Archives
Kensie Kilgus 5707 &
David Barendse 8643

1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. 25. 26. 27. 28. 29. 30. 31. 32. 33. 34. 35. 36. 37. 38. 39. 40. 41. 42. 43. 44. 45. 46. 47. 48. 49. 50. 51. 52. 53. 54. 55. 56. 57. 58. 59. 60. 61. 62. 63. 64. 65. 66. 67. 68. 69. 70. 71. 72. 73. 74. 75. 76. 77. 78. 79. 80. 81. 82. 83. 84. 85. 86. 87. 88. 89. 90. 91. 92. 93. 94. 95. 96. 97. 98. 99. 100. 101. 102. 103. 104. 105. 106. 107. 108. 109. 110. 111. 112. 113. 114. 115. 116. 117. 118. 119. 120. 121. 122. 123. 124. 125. 126. 127. 128. 129. 130. 131. 132. 133. 134. 135. 136. 137. 138. 139. 140. 141. 142. 143. 144. 145. 146. 147. 148. 149. 150. 151. 152. 153. 154. 155. 156. 157. 158. 159. 160. 161. 162. 163. 164. 165. 166. 167. 168. 169. 170. 171. 172. 173. 174. 175. 176. 177. 178. 179. 180. 181. 182. 183. 184. 185. 186. 187. 188. 189. 190. 191. 192. 193. 194. 195. 196. 197. 198. 199. 200. 201. 202. 203. 204. 205. 206. 207. 208. 209. 210. 211. 212. 213. 214. 215. 216. 217. 218. 219. 220. 221. 222. 223. 224. 225. 226. 227. 228. 229. 230. 231. 232. 233. 234. 235. 236. 237. 238. 239. 240. 241. 242. 243. 244. 245. 246. 247. 248. 249. 250. 251. 252. 253. 254. 255. 256. 257. 258. 259. 260. 261. 262. 263. 264. 265. 266. 267. 268. 269. 270. 271. 272. 273. 274. 275. 276. 277. 278. 279. 280. 281. 282. 283. 284. 285. 286. 287. 288. 289. 290. 291. 292. 293. 294. 295. 296. 297. 298. 299. 300. 301. 302. 303. 304. 305. 306. 307. 308. 309. 310. 311. 312. 313. 314. 315. 316. 317. 318. 319. 320. 321. 322. 323. 324. 325. 326. 327. 328. 329. 330. 331. 332. 333. 334. 335. 336. 337. 338. 339. 340. 341. 342. 343. 344. 345. 346. 347. 348. 349. 350. 351. 352. 353. 354. 355. 356. 357. 358. 359. 360. 361. 362. 363. 364. 365. 366. 367. 368. 369. 370. 371. 372. 373. 374. 375. 376. 377. 378. 379. 380. 381. 382. 383. 384. 385. 386. 387. 388. 389. 390. 391. 392. 393. 394. 395. 396. 397. 398. 399. 400. 401. 402. 403. 404. 405. 406. 407. 408. 409. 410. 411. 412. 413. 414. 415. 416. 417. 418. 419. 420. 421. 422. 423. 424. 425. 426. 427. 428. 429. 430. 431. 432. 433. 434. 435. 436. 437. 438. 439. 440. 441. 442. 443. 444. 445. 446. 447. 448. 449. 450. 451. 452. 453. 454. 455. 456. 457. 458. 459. 460. 461. 462. 463. 464. 465. 466. 467. 468. 469. 470. 471. 472. 473. 474. 475. 476. 477. 478. 479. 480. 481. 482. 483. 484. 485. 486. 487. 488. 489. 490. 491. 492. 493. 494. 495. 496. 497. 498. 499. 500. 501. 502. 503. 504. 505. 506. 507. 508. 509. 510. 511. 512. 513. 514. 515. 516. 517. 518. 519. 520. 521. 522. 523. 524. 525. 526. 527. 528. 529. 530. 531. 532. 533. 534. 535. 536. 537. 538. 539. 540. 541. 542. 543. 544. 545. 546. 547. 548. 549. 550. 551. 552. 553. 554. 555. 556. 557. 558. 559. 560. 561. 562. 563. 564. 565. 566. 567. 568. 569. 570. 571. 572. 573. 574. 575. 576. 577. 578. 579. 580. 581. 582. 583. 584. 585. 586. 587. 588. 589. 590. 591. 592. 593. 594. 595. 596. 597. 598. 599. 600. 601. 602. 603. 604. 605. 606. 607. 608. 609. 610. 611. 612. 613. 614. 615. 616. 617. 618. 619. 620. 621. 622. 623. 624. 625. 626. 627. 628. 629. 630. 631. 632. 633. 634. 635. 636. 637. 638. 639. 640. 641. 642. 643. 644. 645. 646. 647. 648. 649. 650. 651. 652. 653. 654. 655. 656. 657. 658. 659. 660. 661. 662. 663. 664. 665. 666. 667. 668. 669. 670. 671. 672. 673. 674. 675. 676. 677. 678. 679. 680. 681. 682. 683. 684. 685. 686. 687. 688. 689. 690. 691. 692. 693. 694. 695. 696. 697. 698. 699. 700. 701. 702. 703. 704. 705. 706. 707. 708. 709. 710. 711. 712. 713. 714. 715. 716. 717. 718. 719. 720. 721. 722. 723. 724. 725. 726. 727. 728. 729. 730. 731. 732. 733. 734. 735. 736. 737. 738. 739. 740. 741. 742. 743. 744. 745. 746. 747. 748. 749. 750. 751. 752. 753. 754. 755. 756. 757. 758. 759. 760. 761. 762. 763. 764. 765. 766. 767. 768. 769. 770. 771. 772. 773. 774. 775. 776. 777. 778. 779. 780. 781. 782. 783. 784. 785. 786. 787. 788. 789. 790. 791. 792. 793. 794. 795. 796. 797. 798. 799. 800. 801. 802. 803. 804. 805. 806. 807. 808. 809. 810. 811. 812. 813. 814. 815. 816. 817. 818. 819. 820. 821. 822. 823. 824. 825. 826. 827. 828. 829. 830. 831. 832. 833. 834. 835. 836. 837. 838. 839. 840.

100%
90%
80%
70%
60%
50%
40%
30%
20%
10%
0%

0 10 20 30 40 50 60 70 80 90 100

Percentage of respondents who agree or strongly agree with the statement

Statement: "The current system of government is the best one for our country."

Source: Pew Research Center, March 1-10, 2011.

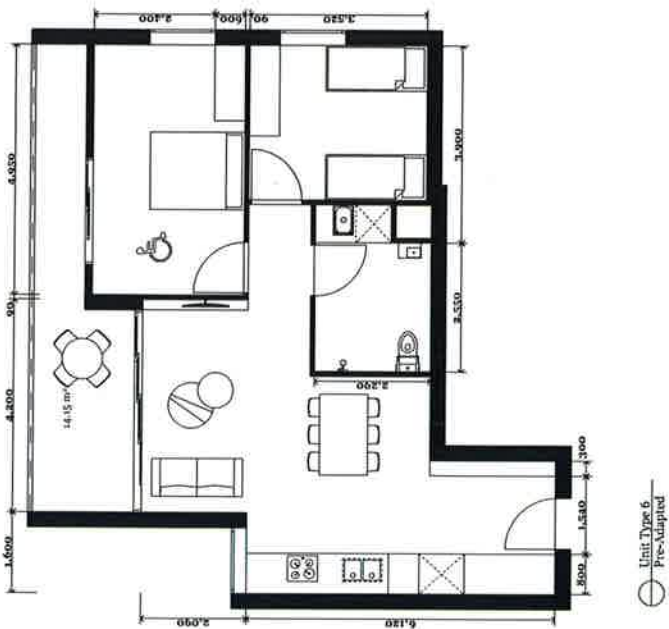
Project Address
1034
1034 William Drive
Cincinnati, OH 45202
JL

| | |
|------------|----------|
| Forward By | IL |
| Date | 08/08/17 |
| Rate | 12006642 |

| Building Service
Inventory Number | Apartment Type
Typical Unit | Area |
|--------------------------------------|--------------------------------|-------|
| 100 | 100 | 100 |
| 200 | 200 | 200 |
| 300 | 300 | 300 |
| 400 | 400 | 400 |
| 500 | 500 | 500 |
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| 8900 | 8900 | 8900 |
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| 9600 | 9600 | 9600 |
| 9700 | 9700 | 9700 |
| 9800 | 9800 | 9800 |
| 9900 | 9900 | 9900 |
| 10000 | 10000 | 10000 |

REFER TO SITE SURVEY FOR ALL INFORMATION RELATING TO EXISTING SITE DATA.

Drawing Number DA301



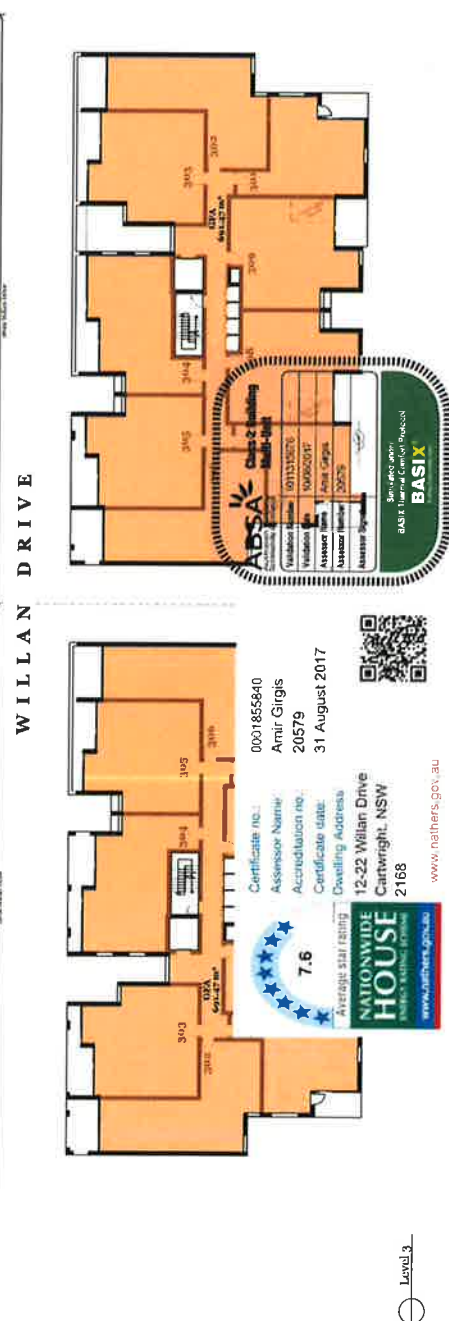
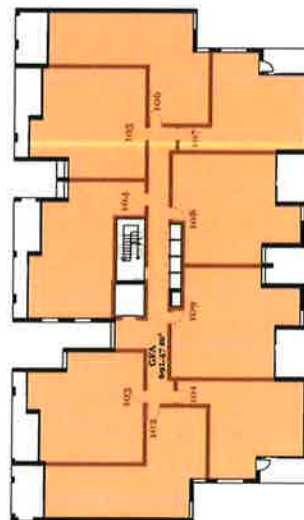
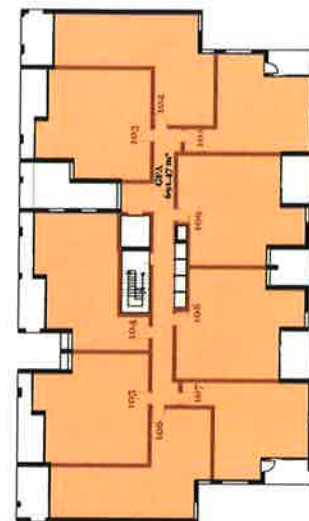
Certificate no: 0001855840
Assessor Name: Amir Girgis
Accreditation no: 20579
Certificate date: 31 August 2017



www.nathers.gov.au

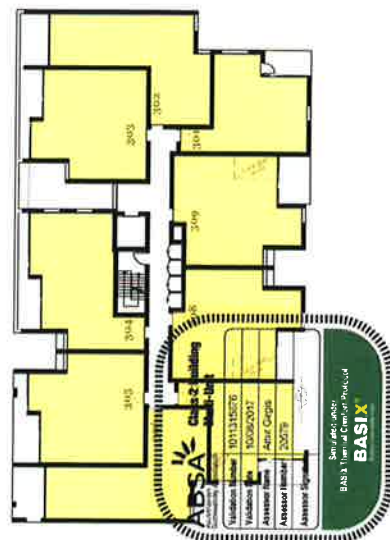
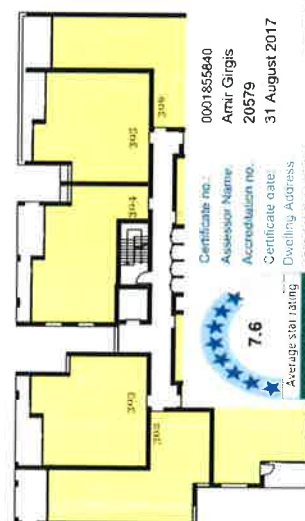
Total Site - 12 - 22 Willan Drive
Permissible GFA = 4970m²
Proposed GFA = 4962m²

Areas included in the GFA calculation



SEPP 65 - 70% of residential units should have solar access for more than 2 hours
81.25% of residential units have solar access for more than 2 hours
NO SOLAR ACCESS
 SEPP 65 - 15% of residential units should receive no sunlight
12-5% of residential units receive no sunlight

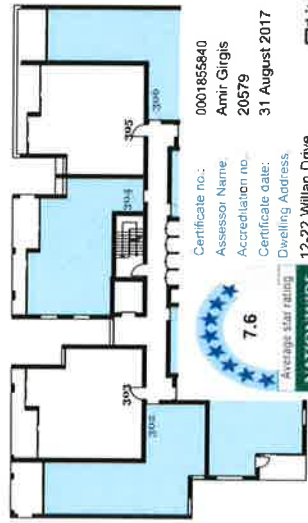
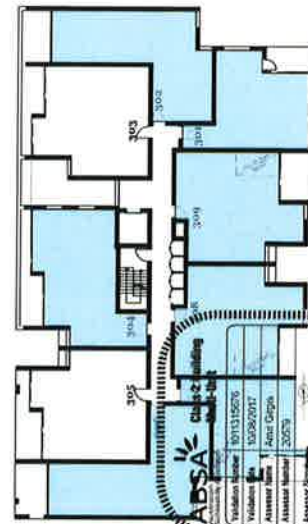
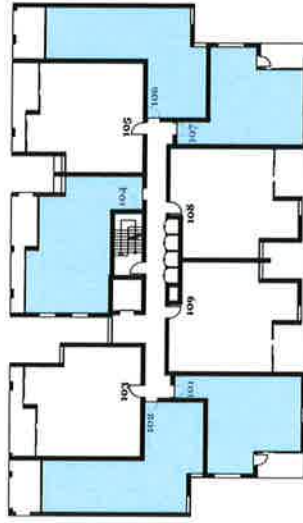
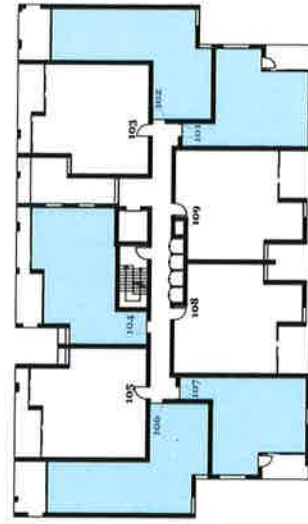
 Apartments receiving more than 2 hours of sunlight
 Apartments receiving less than 2 hours of sunlight
 Apartments receiving no direct sunlight



WILLAN DRIVE

© 1995 by American Society for Reproductive Medicine

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|-----|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 | 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 | 71 | 72 | 73 | 74 | 75 | 76 | 77 | 78 | 79 | 80 | 81 | 82 | 83 | 84 | 85 | 86 | 87 | 88 | 89 | 90 | 91 | 92 | 93 | 94 | 95 | 96 | 97 | 98 | 99 | 100 |
|---|---|---|---|---|---|---|---|---|-----|



7.6
Average star rating

NATIONWIDE HOUSE
PROPERTY MANAGEMENT

www.nathers.gov.au

Certificate no.: 0001855940
Assessor Name: Amir Gliglis
Accreditation no.: 20579
Certificate date: 31 August 2017

Dwelling Address:
12-22 Willan Drive
Cantrawnt, NSW
2168

www.nathers.gov.au

305

305

ABSA Association of Banks in South Africa

Class 2 Building

| | |
|--------------------|-------------|
| Validation Number | 1011310576 |
| Validated On | 10/09/2017 |
| Assessor Name | Acad Cengiz |
| Assessor Number | 20079 |
| Assessor Signature | |

BASIX Building Assessment System

and writing a research paper.

Drawing Series
 Drawing Number
 Revision

Calculate Ducts
 From Ventilation Fans (continued)

N 

Drawing Number **DA502**
 Revision **A**

Drawing Number **DA502**
 Revision **A**

COMMUNAL OPEN SPACE

SEPP 65 -
Total Site - 12-22 Willan Drive
Required Communal Open Space (25%) =
828m²

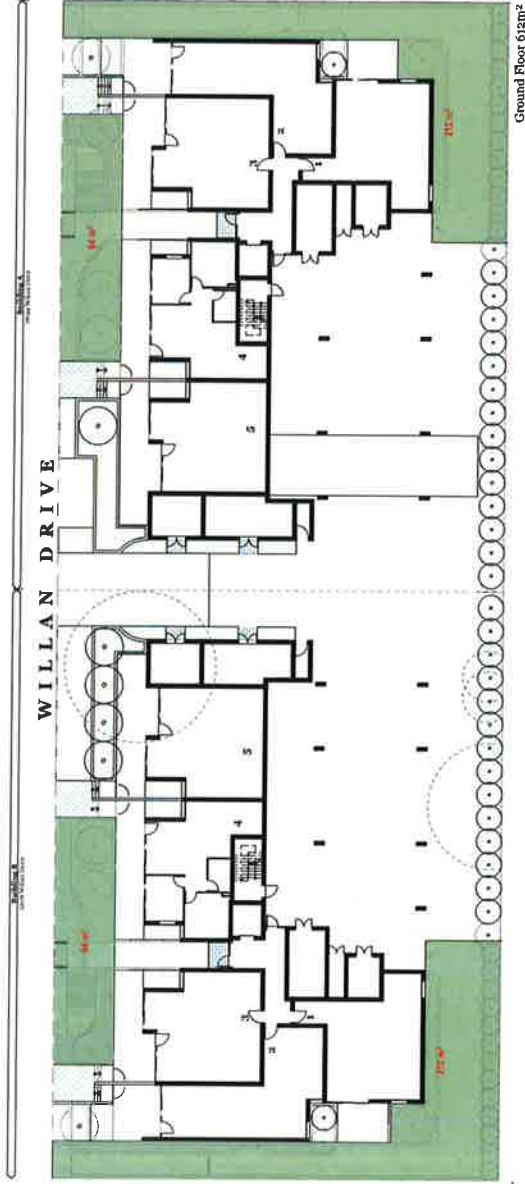
Proposed Communal Open Space (26%) =
850m²

LEGEND

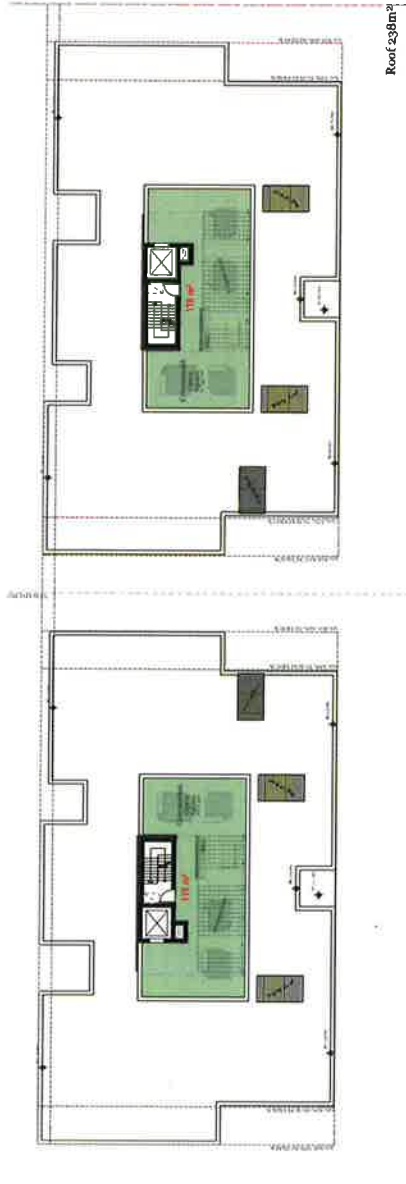
Areas included in the communal open space calculations

Ground Level

Levels 1 & 2



Ground Floor 612m²



Roof 238m²



Certificate no.:
Assessor Name:
Accreditation no:
Certificate date:
Dwelling Address

0001855840
Amir Giris
20579
31 August 2017

12-22 Willan Drive
Cartwright, NSW
2168



www.nateths.gov.au



| | |
|--------------------|------------|
| Class 2 Building | Multi-unit |
| Validation Number | 3013315570 |
| Validation Date | 10/08/2017 |
| Assessor Name | Amir Giris |
| Assessor Number | 20579 |
| Assessor Signature | |

Client Details

1-141-1418-1418

18/21 St George Community Building

Consultants

ARCHITECT

INTERIOR

IN VIEW

SLR

Project Name

12-22 Willan Drive

Project Address

12-22 Willan Drive

Cartwright, NSW 2168

Client By

Amir Giris

Scale

1:100

Drawing Date

31 August 2017

Drawing Name

Communal Open Space

Checklist

Checklist

Drawing Number

DA503

Revision

A

09.08.17

09.08.17

| | | | |
|-----------|------|-----------|------|
| GFA Total | 2480 | GFA Total | 2480 |
| | | FSR | 1.50 |

| | | | | |
|-------------|--------------|-----------|-------------|---|
| Rev: | Issue | By | Chk. | Demographic |
| c. | 3-6-2017 | af | b. | Notes: 1) Use only copies of A/C's/Phy. being a |

Consistency
in the
code

Product

T • 01 2 Hys-Don
m/w/eng/can/mw
ABN: 61 986 700 990

Drawn by
Circled by
JD
11
08/08/17
Scale

Drawing Number DA505

Revision A



7.6

NATIONWIDE HOUSE

www.nathers.gov.au

1. This is a preliminary drawing. It is not to be used for construction purposes without the approval of the architect. 2. This drawing is the property of the architect and is not to be reproduced or used in any way without the written consent of the architect. 3. The architect is not responsible for the accuracy of the information provided in this drawing. 4. The architect is not responsible for the accuracy of the information provided in this drawing.

Certificate no. 0007855340
 Appraiser Name: Amir Grigs
 Accreditation no. 20579
 Certificate date: 31 August 2017
 Dwelling Address: 12-22 Wilson Drive
 Cartwright, NSW 2168
 www.nature.gov.au



Plan Date: 01/08/2017
 Plan Number: 01/08/2017

Client Details: 1. Mr & Mrs 1234
 1234 Street, Sydney NSW 1500

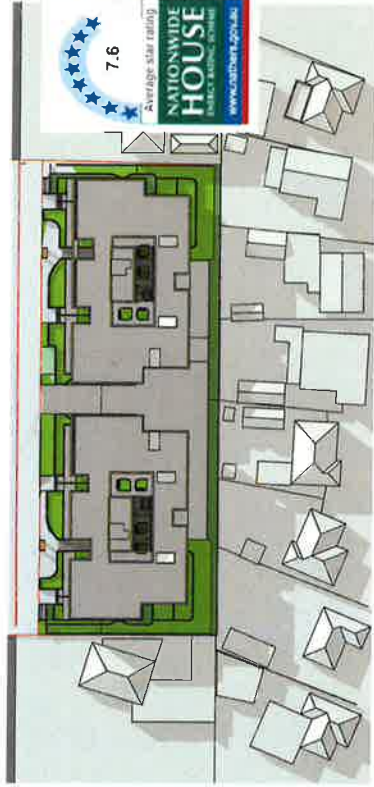


1234 Street, Sydney NSW 1500
 1234 Street, Sydney NSW 1500
 1234 Street, Sydney NSW 1500

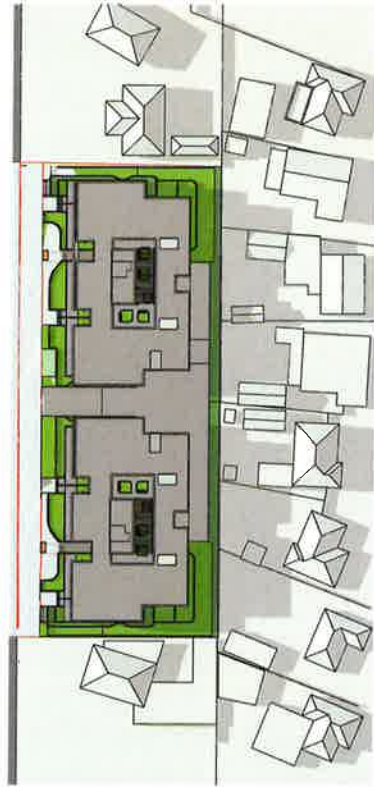
Project Name: 1234 Street, Sydney NSW 1500
 Project Address: 1234 Street, Sydney NSW 1500
 Project Date: 01/08/2017
 Project By: Amir Grigs

1234 Street, Sydney NSW 1500
 1234 Street, Sydney NSW 1500
 1234 Street, Sydney NSW 1500

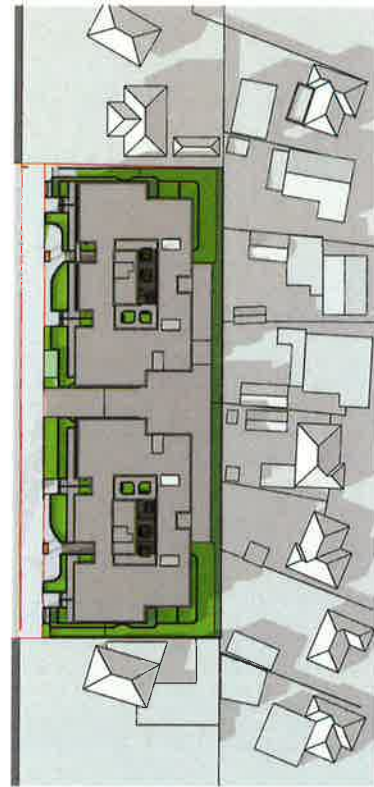
Drawing Number DA701
 Revision A



9 AM



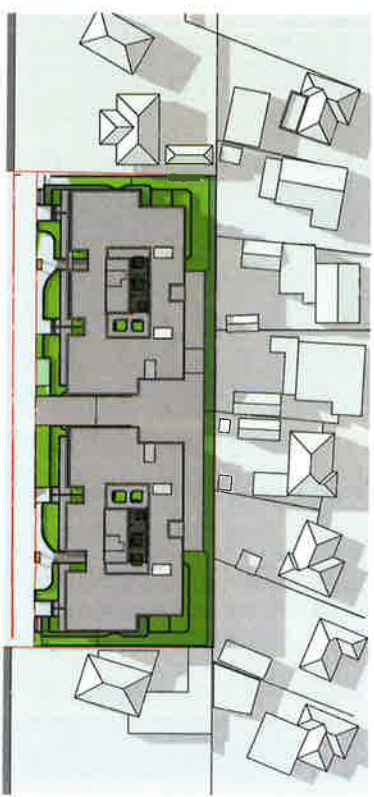
11 AM



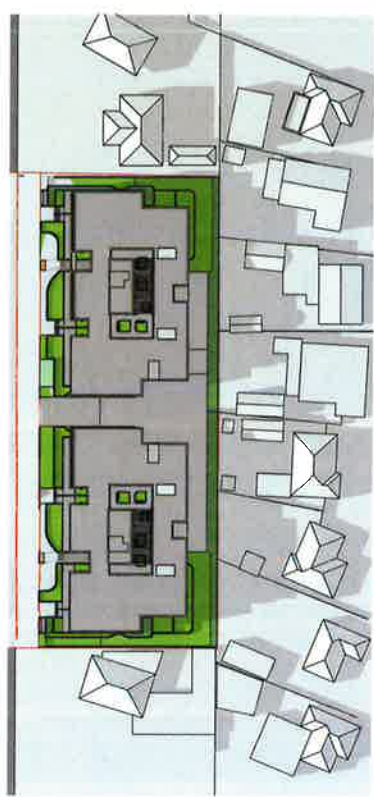
1 PM



3 PM

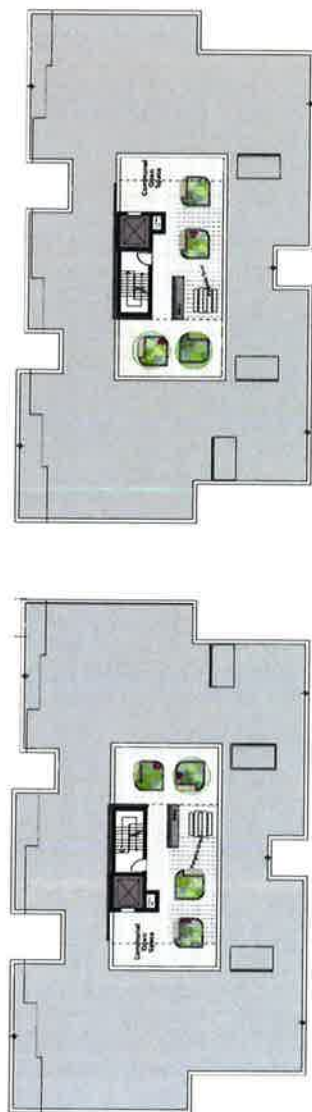


5 PM



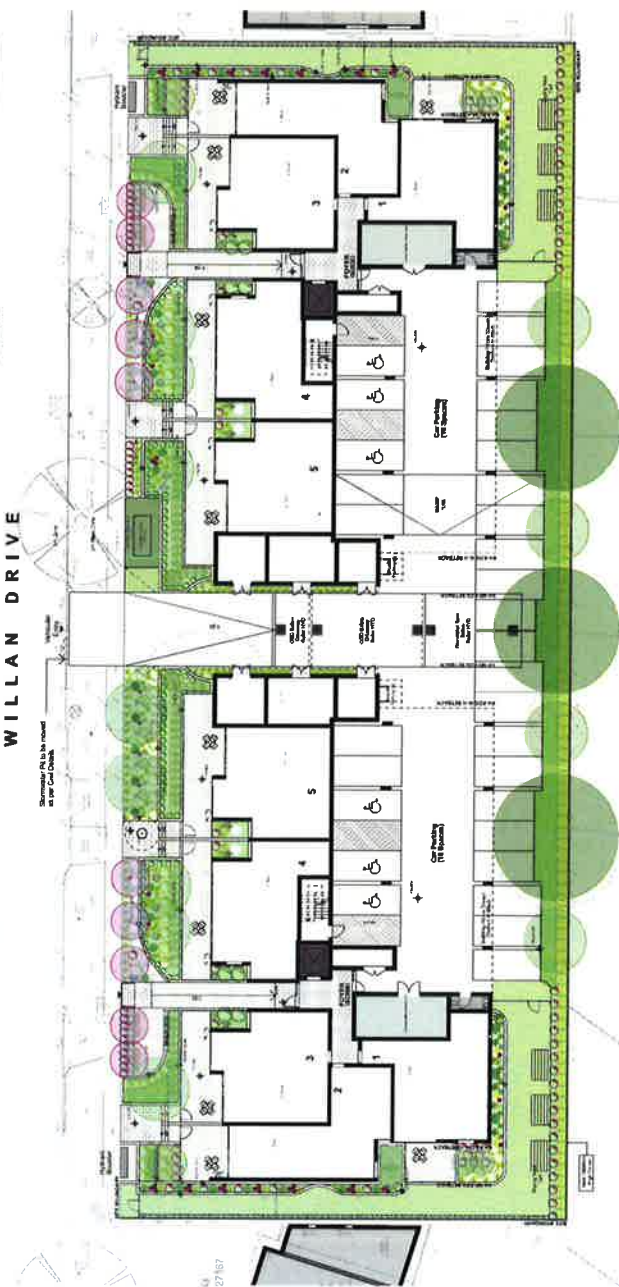
7 PM

| Rating | Rating |
|--------|--------|
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| 2 | 2 |
| 3 | 3 |
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| 99 | 99 |
| 100 | 100 |



1 Landscape Plan - Rooftop
1:200

| | |
|--|--|
| <p> Experiments 1
 10/17/14
 8/10/14 </p> | <p> Experiments 2
 10/17/14
 8/10/14 </p> |
|--|--|



2 Landscape Plan
1:200

WILLAN DRIVE



1 Landscape Plan - Building A
1:100

- Legend:
- existing trees to be retained
 - existing trees to be removed
 - proposed tree
 - planting areas
 - noise clogging
 - uri

Notes:
for all fencing materials and types refer to the architectural plans.

| code | scientific name | common name | max. height | pot size | status | quantity |
|------|-----------------------|--------------------|-------------|----------|--------|----------|
| T1 | Hydrangea paniculata | White Hydrangea | 1.0m | 45L | yes | 4 |
| T2 | Lonicera xylosteum | Common Honeysuckle | 1.0m | 45L | yes | 2 |
| T3 | Wickstroemia cuneata | White Cross Myrtle | 3.5m | 45L | yes | 2 |
| T4 | Laportea myrsinifolia | Pink Cross Myrtle | 4.0m | 45L | yes | 10 |
| T5 | Laportea myrsinifolia | White Cross Myrtle | 4.0m | 45L | yes | 8 |
| T6 | Myrsine laevis | White Cross Myrtle | 4.0m | 45L | yes | 2 |
| T7 | Myrsine laevis | White Cross Myrtle | 4.0m | 45L | yes | 2 |
| T8 | Myrsine laevis | White Cross Myrtle | 4.0m | 45L | yes | 2 |
| T9 | Myrsine laevis | White Cross Myrtle | 4.0m | 45L | yes | 2 |
| T10 | Myrsine laevis | White Cross Myrtle | 4.0m | 45L | yes | 2 |
| T11 | Myrsine laevis | White Cross Myrtle | 4.0m | 45L | yes | 2 |
| T12 | Myrsine laevis | White Cross Myrtle | 4.0m | 45L | yes | 2 |
| T13 | Myrsine laevis | White Cross Myrtle | 4.0m | 45L | yes | 2 |
| T14 | Myrsine laevis | White Cross Myrtle | 4.0m | 45L | yes | 2 |
| T15 | Myrsine laevis | White Cross Myrtle | 4.0m | 45L | yes | 2 |
| T16 | Myrsine laevis | White Cross Myrtle | 4.0m | 45L | yes | 2 |
| T17 | Myrsine laevis | White Cross Myrtle | 4.0m | 45L | yes | 2 |
| T18 | Myrsine laevis | White Cross Myrtle | 4.0m | 45L | yes | 2 |
| T19 | Myrsine laevis | White Cross Myrtle | 4.0m | 45L | yes | 2 |
| T20 | Myrsine laevis | White Cross Myrtle | 4.0m | 45L | yes | 2 |
| T21 | Myrsine laevis | White Cross Myrtle | 4.0m | 45L | yes | 2 |
| T22 | Myrsine laevis | White Cross Myrtle | 4.0m | 45L | yes | 2 |
| T23 | Myrsine laevis | White Cross Myrtle | 4.0m | 45L | yes | 2 |
| T24 | Myrsine laevis | White Cross Myrtle | 4.0m | 45L | yes | 2 |
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| T29 | Myrsine laevis | White Cross Myrtle | 4.0m | 45L | yes | 2 |
| T30 | Myrsine laevis | White Cross Myrtle | 4.0m | 45L | yes | 2 |
| T31 | Myrsine laevis | White Cross Myrtle | 4.0m | 45L | yes | 2 |
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| T42 | Myrsine laevis | White Cross Myrtle | 4.0m | 45L | yes | 2 |
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| T45 | Myrsine laevis | White Cross Myrtle | 4.0m | 45L | yes | 2 |
| T46 | Myrsine laevis | White Cross Myrtle | 4.0m | 45L | yes | 2 |
| T47 | Myrsine laevis | White Cross Myrtle | 4.0m | 45L | yes | 2 |
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| T71 | Myrsine laevis | White Cross Myrtle | 4.0m | 45L | yes | 2 |
| T72 | Myrsine laevis | White Cross Myrtle | 4.0m | 45L | yes | 2 |
| T73 | Myrsine laevis | White Cross Myrtle | 4.0m | 45L | yes | 2 |
| T74 | Myrsine laevis | White Cross Myrtle | 4.0m | 45L | yes | 2 |
| T75 | Myrsine laevis | White Cross Myrtle | 4.0m | 45L | yes | 2 |
| T76 | Myrsine laevis | White Cross Myrtle | 4.0m | 45L | yes | 2 |
| T77 | Myrsine laevis | White Cross Myrtle | 4.0m | 45L | yes | 2 |
| T78 | Myrsine laevis | White Cross Myrtle | 4.0m | 45L | yes | 2 |
| T79 | Myrsine laevis | White Cross Myrtle | 4.0m | 45L | yes | 2 |
| T80 | Myrsine laevis | White Cross Myrtle | 4.0m | 45L | yes | 2 |
| T81 | Myrsine laevis | White Cross Myrtle | 4.0m | 45L | yes | 2 |
| T82 | Myrsine laevis | White Cross Myrtle | 4.0m | 45L | yes | 2 |
| T83 | Myrsine laevis | White Cross Myrtle | 4.0m | 45L | yes | 2 |
| T84 | Myrsine laevis | White Cross Myrtle | 4.0m | 45L | yes | 2 |
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| T86 | Myrsine laevis | White Cross Myrtle | 4.0m | 45L | yes | 2 |
| T87 | Myrsine laevis | White Cross Myrtle | 4.0m | 45L | yes | 2 |
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| T89 | Myrsine laevis | White Cross Myrtle | 4.0m | 45L | yes | 2 |
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| T100 | Myrsine laevis | White Cross Myrtle | 4.0m | 45L | yes | 2 |

**Stormwater Pit to be moved
as per Civil Details**

Stormwater Pit to be moved as per Civil Details

brand:



for all fencing materials and types refer to the architectural plans.

Refer to L02 for plant schedule

343
DP 227167

**Car Parking
(16 Spaces)**

1 Landscape Plan - Building B
1:100

inviewdesign

www.elsevier.com/locate/jmb

[illegible]

Schwinn Drive

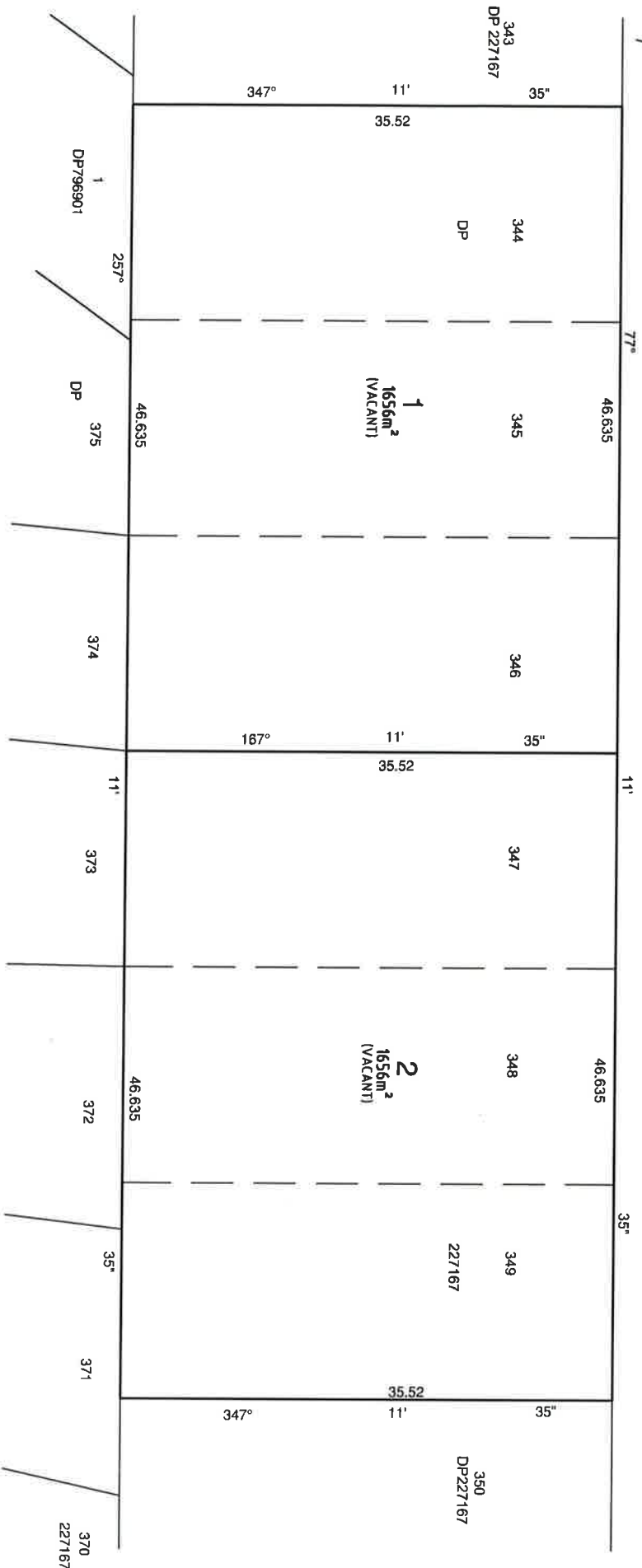
12-22 William Drive, Carwright, NSW 2168

Landscape Plan - Building B

PROPOSED CONSOLIDATION
 LOTS 344-346 DP 227167 &
 LOTS 347-349 DP 227167

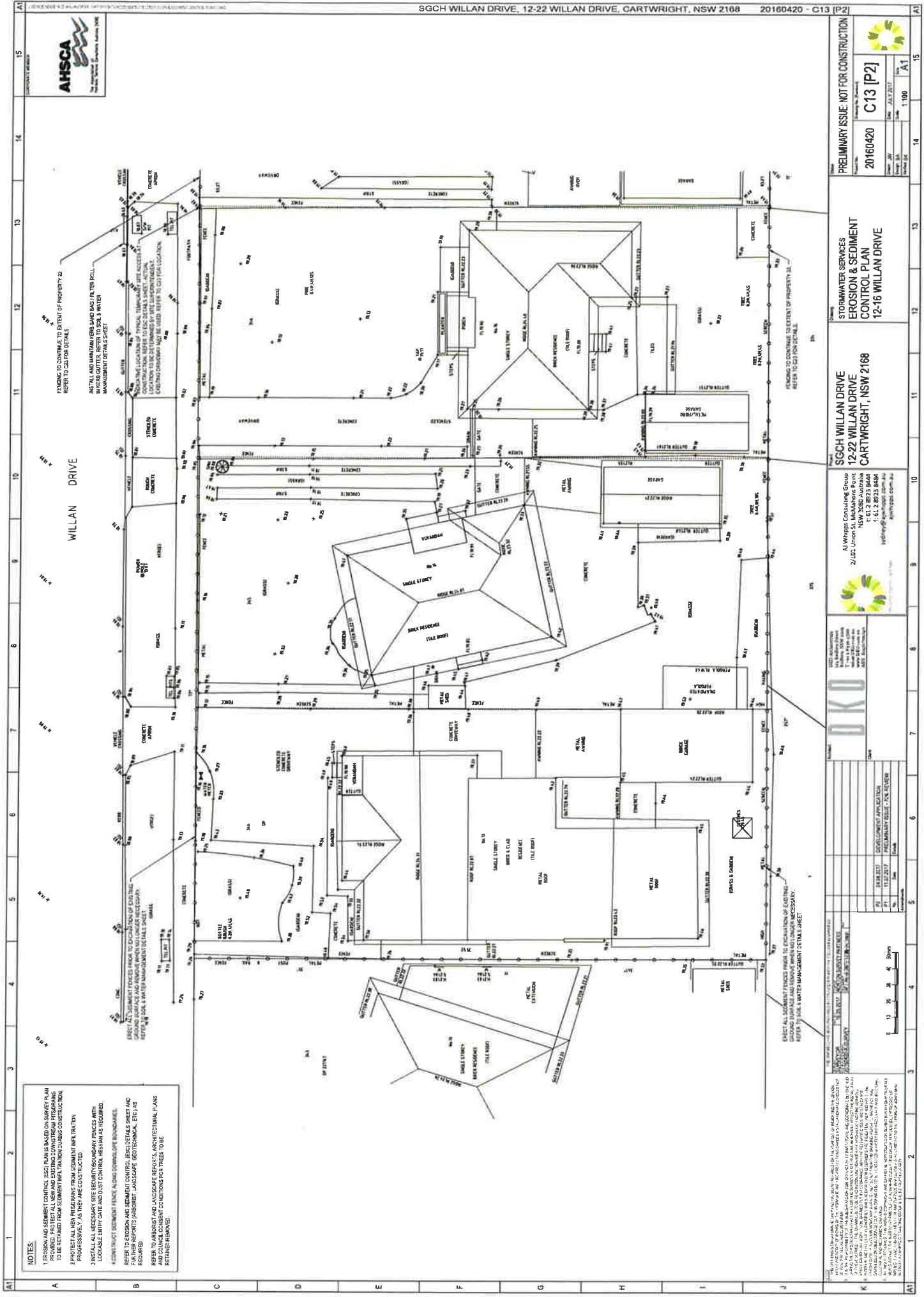
WILLAN

DRIVE



LOT LAYOUT, DIMENSIONS, AREAS, "EASEMENTS" SUBJECT TO FINAL SURVEY

| ISSUE | DATE | AMENDMENT |
|--|------|-----------|
| | | |
| TITLE: PLAN SHOWING PROPOSED LOT LAYOUT
No 12-22 WILLAN DRIVE, CARTWRIGHT | | |
| LGA: LIVERPOOL | | |
| CLIENT: ST. GEORGE COMMUNITY HOUSING | | |
| SCALE (AT A3) 1:300 | | |
| DATUM: - | | |
| REFERENCE: 24481 | | |
| DATE: 15.08.17 | | |
| SURVEYOR: AW | | |
| SHEET S1 | | |
| Norton Survey Partners
SURVEYORS & LAND TITLE CONSULTANTS
ACN 199 734 968
SUITE 1
670 DARLING STREET
ROZELLE N.S.W. 2039
PH +61 2 9555 2744
FAX +61 2 9555 2766
office@nspartners.com.au | | |



PRELIMINARY ISSUE - NOT FOR CONSTRUCTION

Project No: 20160420
Issue: C13 [P2]
Date: JUL 2017
Scale: 1:100
Sheet: A1

**STORMWATER SERVICES
EROSION & SEDIMENT
CONTROL PLAN
12-16 WILLAN DRIVE**

**SGCH WILLAN DRIVE
12-22 WILLAN DRIVE
CARTWRIGHT, NSW 2168**

AI Whips Consulting Group
2/01 Union St, Macquarie Park
NSW 2000 Australia
Phone: 02 9439 8888
Fax: 02 9439 8899
Email: info@aiwhips.com.au
Website: www.aiwhips.com.au

| Revisions | | Checklist | |
|-----------|------------|----------------------------------|--------|
| No. | Date | By | Check |
| 01 | 12/12/2017 | SGCH (Landscape Architect) | Design |
| 02 | 12/12/2017 | SGCH (Civil Engineer) | Design |
| 03 | 12/12/2017 | SGCH (Structural Engineer) | Design |
| 04 | 12/12/2017 | SGCH (Mechanical Engineer) | Design |
| 05 | 12/12/2017 | SGCH (Electrical Engineer) | Design |
| 06 | 12/12/2017 | SGCH (Plumbing Engineer) | Design |
| 07 | 12/12/2017 | SGCH (Fire Engineer) | Design |
| 08 | 12/12/2017 | SGCH (Health and Safety Officer) | Design |
| 09 | 12/12/2017 | SGCH (Environmental Officer) | Design |
| 10 | 12/12/2017 | SGCH (Traffic Engineer) | Design |
| 11 | 12/12/2017 | SGCH (Acoustic Engineer) | Design |
| 12 | 12/12/2017 | SGCH (Energy Engineer) | Design |
| 13 | 12/12/2017 | SGCH (Water Engineer) | Design |
| 14 | 12/12/2017 | SGCH (Geotechnical Engineer) | Design |
| 15 | 12/12/2017 | SGCH (Structural Engineer) | Design |
| 16 | 12/12/2017 | SGCH (Mechanical Engineer) | Design |
| 17 | 12/12/2017 | SGCH (Electrical Engineer) | Design |
| 18 | 12/12/2017 | SGCH (Plumbing Engineer) | Design |
| 19 | 12/12/2017 | SGCH (Fire Engineer) | Design |
| 20 | 12/12/2017 | SGCH (Health and Safety Officer) | Design |
| 21 | 12/12/2017 | SGCH (Environmental Officer) | Design |
| 22 | 12/12/2017 | SGCH (Traffic Engineer) | Design |
| 23 | 12/12/2017 | SGCH (Acoustic Engineer) | Design |
| 24 | 12/12/2017 | SGCH (Energy Engineer) | Design |
| 25 | 12/12/2017 | SGCH (Water Engineer) | Design |
| 26 | 12/12/2017 | SGCH (Geotechnical Engineer) | Design |
| 27 | 12/12/2017 | SGCH (Structural Engineer) | Design |
| 28 | 12/12/2017 | SGCH (Mechanical Engineer) | Design |
| 29 | 12/12/2017 | SGCH (Electrical Engineer) | Design |
| 30 | 12/12/2017 | SGCH (Plumbing Engineer) | Design |
| 31 | 12/12/2017 | SGCH (Fire Engineer) | Design |
| 32 | 12/12/2017 | SGCH (Health and Safety Officer) | Design |
| 33 | 12/12/2017 | SGCH (Environmental Officer) | Design |
| 34 | 12/12/2017 | SGCH (Traffic Engineer) | Design |
| 35 | 12/12/2017 | SGCH (Acoustic Engineer) | Design |
| 36 | 12/12/2017 | SGCH (Energy Engineer) | Design |
| 37 | 12/12/2017 | SGCH (Water Engineer) | Design |
| 38 | 12/12/2017 | SGCH (Geotechnical Engineer) | Design |
| 39 | 12/12/2017 | SGCH (Structural Engineer) | Design |
| 40 | 12/12/2017 | SGCH (Mechanical Engineer) | Design |
| 41 | 12/12/2017 | SGCH (Electrical Engineer) | Design |
| 42 | 12/12/2017 | SGCH (Plumbing Engineer) | Design |
| 43 | 12/12/2017 | SGCH (Fire Engineer) | Design |
| 44 | 12/12/2017 | SGCH (Health and Safety Officer) | Design |
| 45 | 12/12/2017 | SGCH (Environmental Officer) | Design |
| 46 | 12/12/2017 | SGCH (Traffic Engineer) | Design |
| 47 | 12/12/2017 | SGCH (Acoustic Engineer) | Design |
| 48 | 12/12/2017 | SGCH (Energy Engineer) | Design |
| 49 | 12/12/2017 | SGCH (Water Engineer) | Design |
| 50 | 12/12/2017 | SGCH (Geotechnical Engineer) | Design |
| 51 | 12/12/2017 | SGCH (Structural Engineer) | Design |
| 52 | 12/12/2017 | SGCH (Mechanical Engineer) | Design |
| 53 | 12/12/2017 | SGCH (Electrical Engineer) | Design |
| 54 | 12/12/2017 | SGCH (Plumbing Engineer) | Design |
| 55 | 12/12/2017 | SGCH (Fire Engineer) | Design |
| 56 | 12/12/2017 | SGCH (Health and Safety Officer) | Design |
| 57 | 12/12/2017 | SGCH (Environmental Officer) | Design |
| 58 | 12/12/2017 | SGCH (Traffic Engineer) | Design |
| 59 | 12/12/2017 | SGCH (Acoustic Engineer) | Design |
| 60 | 12/12/2017 | SGCH (Energy Engineer) | Design |
| 61 | 12/12/2017 | SGCH (Water Engineer) | Design |
| 62 | 12/12/2017 | SGCH (Geotechnical Engineer) | Design |
| 63 | 12/12/2017 | SGCH (Structural Engineer) | Design |
| 64 | 12/12/2017 | SGCH (Mechanical Engineer) | Design |
| 65 | 12/12/2017 | SGCH (Electrical Engineer) | Design |
| 66 | 12/12/2017 | SGCH (Plumbing Engineer) | Design |
| 67 | 12/12/2017 | SGCH (Fire Engineer) | Design |
| 68 | 12/12/2017 | SGCH (Health and Safety Officer) | Design |
| 69 | 12/12/2017 | SGCH (Environmental Officer) | Design |
| 70 | 12/12/2017 | SGCH (Traffic Engineer) | Design |
| 71 | 12/12/2017 | SGCH (Acoustic Engineer) | Design |
| 72 | 12/12/2017 | SGCH (Energy Engineer) | Design |
| 73 | 12/12/2017 | SGCH (Water Engineer) | Design |
| 74 | 12/12/2017 | SGCH (Geotechnical Engineer) | Design |
| 75 | 12/12/2017 | SGCH (Structural Engineer) | Design |
| 76 | 12/12/2017 | SGCH (Mechanical Engineer) | Design |
| 77 | 12/12/2017 | SGCH (Electrical Engineer) | Design |
| 78 | 12/12/2017 | SGCH (Plumbing Engineer) | Design |
| 79 | 12/12/2017 | SGCH (Fire Engineer) | Design |
| 80 | 12/12/2017 | SGCH (Health and Safety Officer) | Design |
| 81 | 12/12/2017 | SGCH (Environmental Officer) | Design |
| 82 | 12/12/2017 | SGCH (Traffic Engineer) | Design |
| 83 | 12/12/2017 | SGCH (Acoustic Engineer) | Design |
| 84 | 12/12/2017 | SGCH (Energy Engineer) | Design |
| 85 | 12/12/2017 | SGCH (Water Engineer) | Design |
| 86 | 12/12/2017 | SGCH (Geotechnical Engineer) | Design |
| 87 | 12/12/2017 | SGCH (Structural Engineer) | Design |
| 88 | 12/12/2017 | SGCH (Mechanical Engineer) | Design |
| 89 | 12/12/2017 | SGCH (Electrical Engineer) | Design |
| 90 | 12/12/2017 | SGCH (Plumbing Engineer) | Design |
| 91 | 12/12/2017 | SGCH (Fire Engineer) | Design |
| 92 | 12/12/2017 | SGCH (Health and Safety Officer) | Design |
| 93 | 12/12/2017 | SGCH (Environmental Officer) | Design |
| 94 | 12/12/2017 | SGCH (Traffic Engineer) | Design |
| 95 | 12/12/2017 | SGCH (Acoustic Engineer) | Design |
| 96 | 12/12/2017 | SGCH (Energy Engineer) | Design |
| 97 | 12/12/2017 | SGCH (Water Engineer) | Design |
| 98 | 12/12/2017 | SGCH (Geotechnical Engineer) | Design |
| 99 | 12/12/2017 | SGCH (Structural Engineer) | Design |
| 100 | 12/12/2017 | SGCH (Mechanical Engineer) | Design |

