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3D OVERALL VIEW



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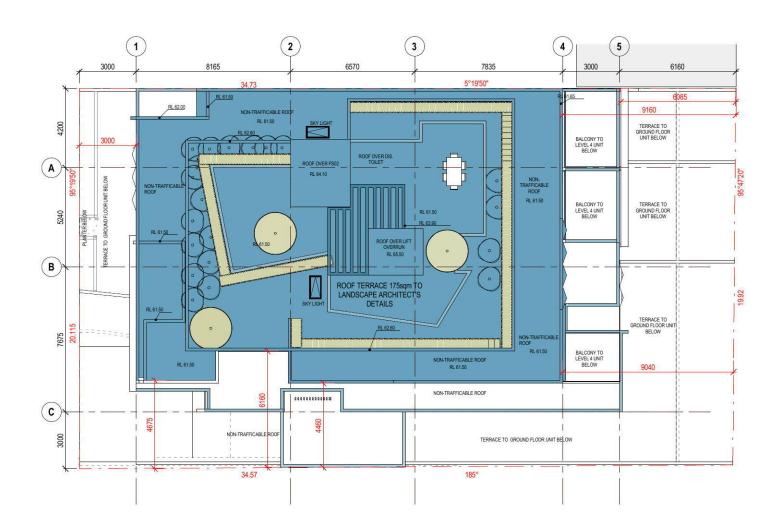
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PROPOSED RESIDENTIAL FLAT BUILDING

31 SANTLEY CRESCENT, KINGSWOOD



SITE PLAN

1:200

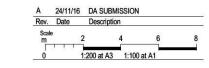
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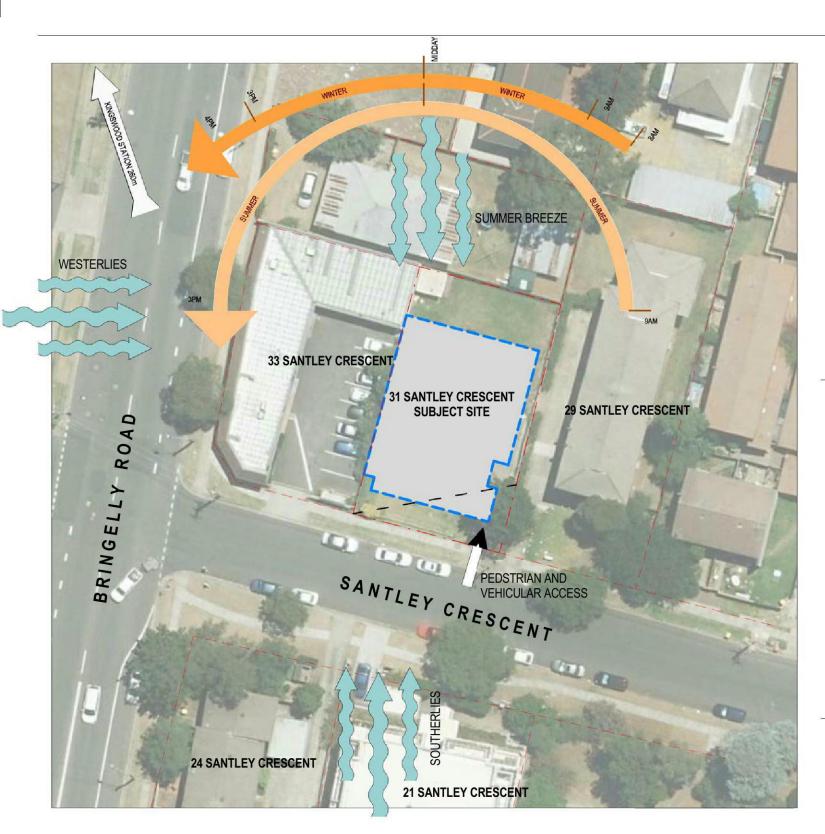
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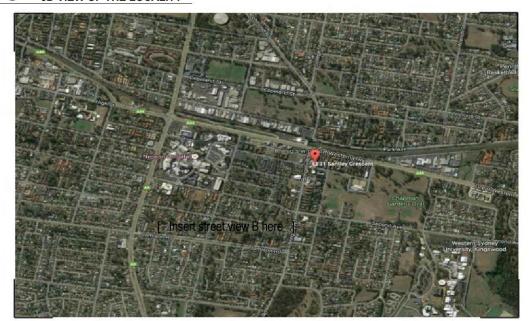
SITE ANALYSIS



2 STREET VIEW - AT THE INTERSECTION OF BRINGELLY RD AND SANTLEY CR



3 3D VIEW OF THE LOCALITY



4 ARIAL VIEW

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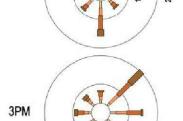
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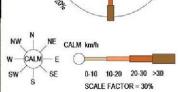
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31 SANTLEY CRESCENT KINGSWOOD

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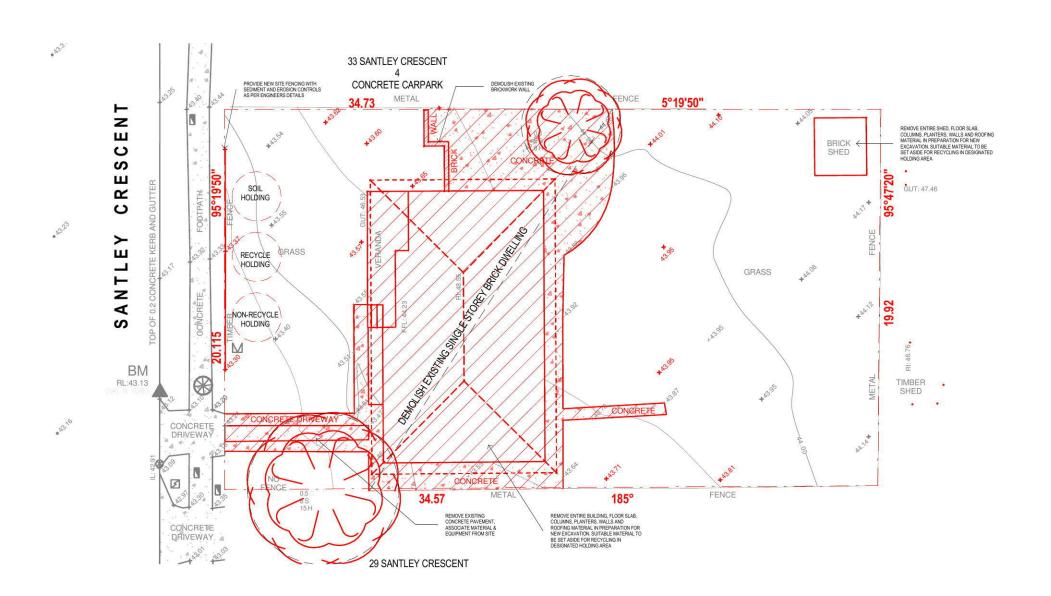
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1 DEMOLITION PLAN

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DEMOLITION PLAN

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J16374D DA 003

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JY Approver OCT 201

| UNIT DATA | | | | | | | | | | | | |
|----------------------|--|--------------------|------------|--------------|-----------------|---|------------------|-----------------|----------------------|-------------|----------------------|--------------|
| UNIT NUMBER | NET AREA | BALCONY (TOTAL) | TOTAL AREA | ROOM TYPE | SOLAR ACCESS | VENTILATION | SINGLE ASPECT | SOUTH ASPECT | UNIVERSA L DESIGN | UNIT STORGE | ADDITIONAL STORGE | TOTAL STORGE |
| Ground Level | | | | | | | | | | | | |
| UNIT G01 | 91 m ² | 28m² | 125m² | 2 BED | | | Yes | Yes | No | 3.6m³ | 4.5m³ | 8.1m³ |
| UNIT G02 | 52 m² | 20m² | 72m² | STUDIO | 2Hrs | | Yes | No | No | 3.4m³ | 4.5m³ | 7.9m³ |
| UNIT G03 | 56 m ² | 21m² | 77m² | 1 BED | 2Hrs | | Yes | No | No | 2.3m³ | 6.1m³ | 8.4m³ |
| UNIT G04 | 75 m² | 96m² | 173m² | 2 BED | 2Hrs | VENTILATED UNIT | No | No | No | 1.62m³ | 8.0m³ | 9.6m³ |
| Level 1 | The state of the s | to the second | | | 7/7 | 11 | | | | in . | | 1 |
| UNIT 101 (ADAPTABLE) | 77 m² | 11m² | 88m² | 2 BED | NONE | VENTILATED UNIT | No | No | Yes | 4.5m³ | 4.5m³ | 9.0m³ |
| UNIT 102 (LIVABLE) | 96 m² | 12m² | 108m² | 3 BED | 2Hrs | VENTILATED UNIT | No | No | Yes | 8 | 10.0m³ | 10.0m³ |
| UNIT 103 | 77 m² | 10m² | 87m² | 2 BED | 2Hrs | | Yes | No | No | 1.06m³ | 8.0m ³ | 9.0m³ |
| UNIT 104 | 76 m² | 10m² | 86m² | 2 BED | 2Hrs | VENTILATED UNIT | No | No | No | 3.4m³ | 4.6m³ | 8.0m³ |
| Level 2 | | | 1 | | | | | - | | | | 1 |
| UNIT 201 (ADAPTABLE) | 77 m² | 11m² | 88m² | 2 BED | NONE | VENTILATED UNIT | No | No | Yes | 4.5m³ | 4.6m³ | 9.0m³ |
| UNIT 202 (LIVABLE) | 96 m² | 12m² | 108m² | 3 BED | 2Hrs | VENTILATED UNIT | No | No | Yes | | 10.0m³ | 10.0m³ |
| UNIT 203 | 77 m² | 10m² | 87m² | 2 BED | 2Hrs | | Yes | No | No | 1.06m³ | 8.0m ³ | 9.0m³ |
| UNIT 204 | 76 m² | 10m² | 86m² | 2 BED | 2Hrs | VENTILATED UNIT | No | No | No | 3.4m³ | 5.1m³ | 8.2m³ |
| Level 3 | | | - | | 12. | | | - | | | | |
| UNIT 301 (ADAPTABLE) | 77 m² | 11m² | 88m² | 2 BED | NONE | VENTILATED UNIT | No | No | Yes | 4.5m³ | 4.5m³ | 9.0m³ |
| UNIT 302 (LIVABLE) | 96 m² | 12m² | 108m² | 3 BED | 2Hrs | VENTILATED UNIT | No | No | Yes | | 10.0m³ | 10.0m³ |
| UNIT 303 | 77 m² | 10m² | 87m² | 2 BED | 2Hrs | | Yes | No | No | 1.06m³ | 8.0m ³ | 9.0m³ |
| UNIT 304 | 76 m² | 10m² | 86m² | 2 BED | 2Hrs | VENTILATED UNIT | No | No | No | 3.4m³ | 5.0m³ | 8.4m³ |
| Level 4 | | | | | | | | | | | | ' |
| UNIT 401 | 76 m² | 11m² | 87m² | 2 BED | | T . | No | No | No | 3.1m³ | 5.1m ³ | 8.2m³ |
| UNIT 402 | 84 m² | 14m² | 98m² | 2 BED | 2Hrs | VENTILATED UNIT | No | No | No | 3.4m³ | 6.0m³ | 9.4m³ |
| UNIT 403 | 33 m² | 11m² | 75m² | 1 BED | 2Hrs | VENTILATED UNIT | Yes | No | No | 13.7m³ | | 13.7m³ |
| UNIT 404 | 77 m² | 17m² | 94m² | 2 BED | 2Hrs | VENTILATED UNIT | No | No | No | | 8.0m³ | 8.0m³ |
| Level 5 | 10 | | | | | *************************************** | | | | | | |
| UNIT 403 | 31 m² | | 75m² | 1 BED | 2Hrs | VENTILATED UNIT | Yes | No | No | 13.7m³ | | 13.7m³ |
| UNIT 501 | 76 m² | 11m² | 87m² | 2 BED | 2Hrs | VENTILATED UNIT | No | No | No | 3.1m³ | 5.1m³ | 8.2m³ |
| UNIT 502 | 77 m² | 10m² | 87m² | 2 BED | 2Hrs | VENTILATED UNIT | No | No | No | 3.4m³ | 5.0m³ | 8.4m³ |
| UNIT 503 | 77 m² | 10m² | 87m² | 2 BED | 2Hrs | VENTILATED UNIT | No | No | No | | 8.0m³ | 8.0m³ |

AREA CALCULATIONS - FLOOR SPACE RATIO

| (ZONE B4 MIXED USE) | B4 |
|-------------------------------|----------------------|
| | |
| SITE AREA | 693.0m² |
| PERMISSIBLE FLOOR SPACE RATIO | 3:1 |
| PERMISSIBLE GFA | 2070.0m ² |
| PROPOSED FLOOR SPACE RATIO | 2.82:1 |

WASTE CALCULATION

PROPOSED GFA

| WAGIL | ALCOLATION | | |
|------------|-------------------------|---------------|---------------|
| | WASTE GENERATION VOLUME | BINS REQUIRED | BINS PROVIDED |
| RESIDENTIA | L (23 UNITS) | | |
| WASTE | 240L/2 DWELLINGS | 11.5 BINS | 12 BINS |
| RECYCLE | 240L/2 DWELLINGS | 11.5 BINS | 12 BINS |
| PROPOSED T | TOTAL | | 24 BINS |

GENERAL WASTE BIN

RECYCLE BIN

CAR PARKING SCHEDULE BASED ON RMS PARKING RATES (METROPOLITAN REGIONAL CENTRE)

| Constants | | | |
|---------------|---------------------|----------|----------|
| UNITS | RATE | REQUIRED | PROPOSED |
| RESIDENTIAL (| 23 UNITS) | | |
| 1 BED (3) | 0.4 SPACE / 1 UNIT | 1.2 | 1 |
| 2 BED (16) | 0.7 SPACE / 1 UNIT | 11.2 | 12 |
| 3 BED (4) | 1.2 SPACES / 1 UNIT | 4.8 | 5 |
| VISITORS | 1 SPACE / 7 UNITS | 3.2 | 4 |
| TOTAL | | 20.4 | 22 |
| | | | |

BICYCLE SCHEDULE For B4 Zone - Mixed Use

Ground Level

Level 1

Level 2

Level 3

Level 4

Level 5

Grand total: 6

| UNITS | RATE | REQUIRED | PROPOSED |
|------------------------|-----------------|----------|----------|
| RESIDENTIAL (23 UNITS) | 20-30% OF UNITS | 4.6 | 4.6 |
| VISITORS (23 UNITS) | 5-10% OF UNITS | 1.15 | 1.15 |
| TOTAL | | 5.75 | 6 |

Area Schedule (Gross Building)

336 m²

357 m²

347 m²

344 m²

295 m²

278 m²

1958 m²

SEPP 65 Apartment Design Guide (ADG) Compliance Table

| ADG RULES OF THUMB | % | | DESCRIPTION | | TARGET | PROPOSED | COMPL |
|--|------|---|---|--|------------------------------|---|-----------|
| Overall Sunlight Access to Living Rooms & Private Open Space | 70% | | inlight between 9 am and 3 and in the Newcastle and \ | pm at mid-winter Sydney Metropolitan Wollongong LGA | 16 apartments out of 23 | 17 out of 23 units (73%) receiving 2 hours of solar access | Yes 🗸 |
| | | 60% | of units should be naturally | cross ventilated | | | |
| Natural Cross Ventilation | 60% | Units at 10 storeys and about allows adequate natural vol. | entilation: Wollongong | Deemed to be cross ventilated | 14 apartments out of 23 | 16 out of 23 units (69.5%) | Yes 🗸 |
| | | Cross-Over & Cross | s-Through units: | Maximum 18m depth | | | |
| South Aspect Units | 15% | Maximum 15% r | no direct sunlight between 9 | am and 3 pm at mid-winter | 3 apartments out of 23 | 2 out of 23 units (8.6%) | Yes 🗸 |
| Accessibility | 20% | Min. 20% of units requ | uire incorporating the Livabl universal design feat | e Housing Guideline's silver level tures | 4.6 apartments out of 23 | 6 out of 23 units (26.0%) | Yes 🗸 |
| | | Studio | 35m² | | | Studio ≥ 35 m² | |
| Minimum Apartment Sizes | 100% | 1 Bed | 50m² | | To Comply | 1 Bed ≥ 50 m ² | Yes 🗸 |
| | | 2 Bed | 70m² + 5m² per extra ba | th | To Compiy | 2 Bed ≥ 70 m² | 100 |
| | 12 | 3 Bed | 90m² + 5m² per extra bath | | | 3 Bed ≥ 95 m² | |
| Habitable room depths | | Maximum 2.5 x the ceiling he | eight | | Max. 8m | Max. 8m | Yes 🗸 |
| riabitable room depins | | Open plan layouts: 8m from | uts: 8m from a window | | IVIDA. OITI | Wax. on | 100 0 |
| | | Studio and 1 Bed units | | 3.6m | | | |
| Living rooms internal width | 100% | 2 Bed and 3 Bed units | | 4.0m | To Comply | All living rooms internal width comply | Yes 🗸 |
| | | Cross-Over/Through units | | 4.0m | | | |
| Redroom | | Min. Dimension | | 3.0m | | | |
| Bedroom Dimension/Area | 100% | Master Bed Minimum Area | | 10m² | To Comply | All bedrooms dimension/ Area | Yes 🗸 |
| (excluding wardrobe) | | Other Bed(s) Minimum Area | | 9.0m² | 127 | comply | |
| | | Habitable rooms: | | 2.7m | min. 2.7m | | |
| Minimum Ceiling Heights | 100% | Non-habitable rooms | | 2.4m | min. 2.4m | All Ceiling Heights comply | Yes 🗸 |
| | | Mixed use Ground Floor | | 3.3m | min. 3.3m | 7 in Coming Holging comply | 15.015.15 |
| | | Studio | | 4.0m² | | | |
| | | 1 Bed | | 8.0m² (min. 2m Dimension) | 1 | | |
| | | 2 Bed | | 10.0m² (min. 2m Dimension) | All balconies | All balconies | |
| Primary Balcony/Private Open Space Minimum Area & Dimension | 100% | 3+ Bed | | 12.0m² (min. 2.4m Dimension) | and P.O.S. to be provided | and P.O.S. have been | |
| | 100% | Private Open Space on Grou | ind Floor or on a podium | 15.0m² (min. 3.0m Dimension) | with min | provided with | |
| | | Min. Balcony depth as contril area | | 1m | requirements | min requirements | Yes 🗸 |
| | - | Studio | 4.0m³ | | min. 4.0m³ | refer to the ctorage echadule | |
| | | 1 Bed | 6.0m³ | | min. 6.0m³ | | |
| Minimum Storage Requirements | | 2 Bed | 8.0m³ | Min. 50% inside of Unit | min. 8.0m³ | refer to the storage schedule on plan | Yes 🗸 |
| | | 3 Bed | 10.0m³ | 1 | min.10.0m³ | On plan | |
| | | Max. units off a circulation co | | 8 Units /Core Proffered 12 Units/Core Max. | 8 Units. | Max 4 Units. / Core | <u> </u> |
| Common circulation | - | Min. units sharing a single lift and over | t for building 10 storeys | 40 Units per Lift | 40 units | N/A | Yes 🗸 |
| Building Depth | * | Max. 18m Building Depth Gla | ass line to Glass Line | 20 | 12-18m Pref. | All rooms, comply with ADG amenity. | Partially |
| N 50 50 50 50 50 50 50 50 50 50 50 50 50 | | 1004 LW X LUTE CAPPAIN C X 102-20 C X 4 C C C C C C C C C C C C C C C C C | 12m hab. and hab. (6m | to side & rear boundary) | | | |
| | | Up to 4 storeys (approx. 12m): | 9m hab. and non-hab. | to side & rear boundary) | | | |
| | ¥ | 5 to 8 storeys (approx. 25m): | 18m hab. and hab. (9m 12m hab. and non-hab. | | To Comply | Adequate building separation has been provided | Yes ✔ |
| Building Separation | | 9 storeys and above | 10/10/10/10/10/10/10/10/10/10/10/10/10/1 | m to side & rear boundary) n to side & rear boundary) | | | |
| | | (over 25m): | | n to side & rear boundary) | | | |
| | | Lower density at next door | Additional 3m setback fr | om the next door boundary | | | |
| | | 7% of site area on site | | | Recommended | 60m² (8%) has been proposed as | |
| Deep Soil Zone | 7% | Minimum dimensions | Site area 650m - 1500m Site area > 1500m; 6m | ²; 3m | DSZ =48.5m² | deep soil zone | Yes 🗸 |
| Communal Open Space (C.O.S.) | 25% | (50% of C.O.S. should rec | 25% of site area ceive sunlight access for a 2 June) | l Phours between 9 am and 3 pm on 21 | Recommended COS =173.2m² | 175m²(25.25% of site area) has been proposed as communal open space on the roof top | |
| | | Within 800m of a rail | way station or light rail stop | in the Sydney Metropolitan Area | Within 800m radius | Refer to the traffic and parking | Yes 🗸 |
| RMS Car parking rates are applied for development on sites: | | | On land zoned, and within 400m of land zoned, B3, B4 or equivalent in a nominated Regional Centre | | of railway station | assessment report | 165 🗸 |

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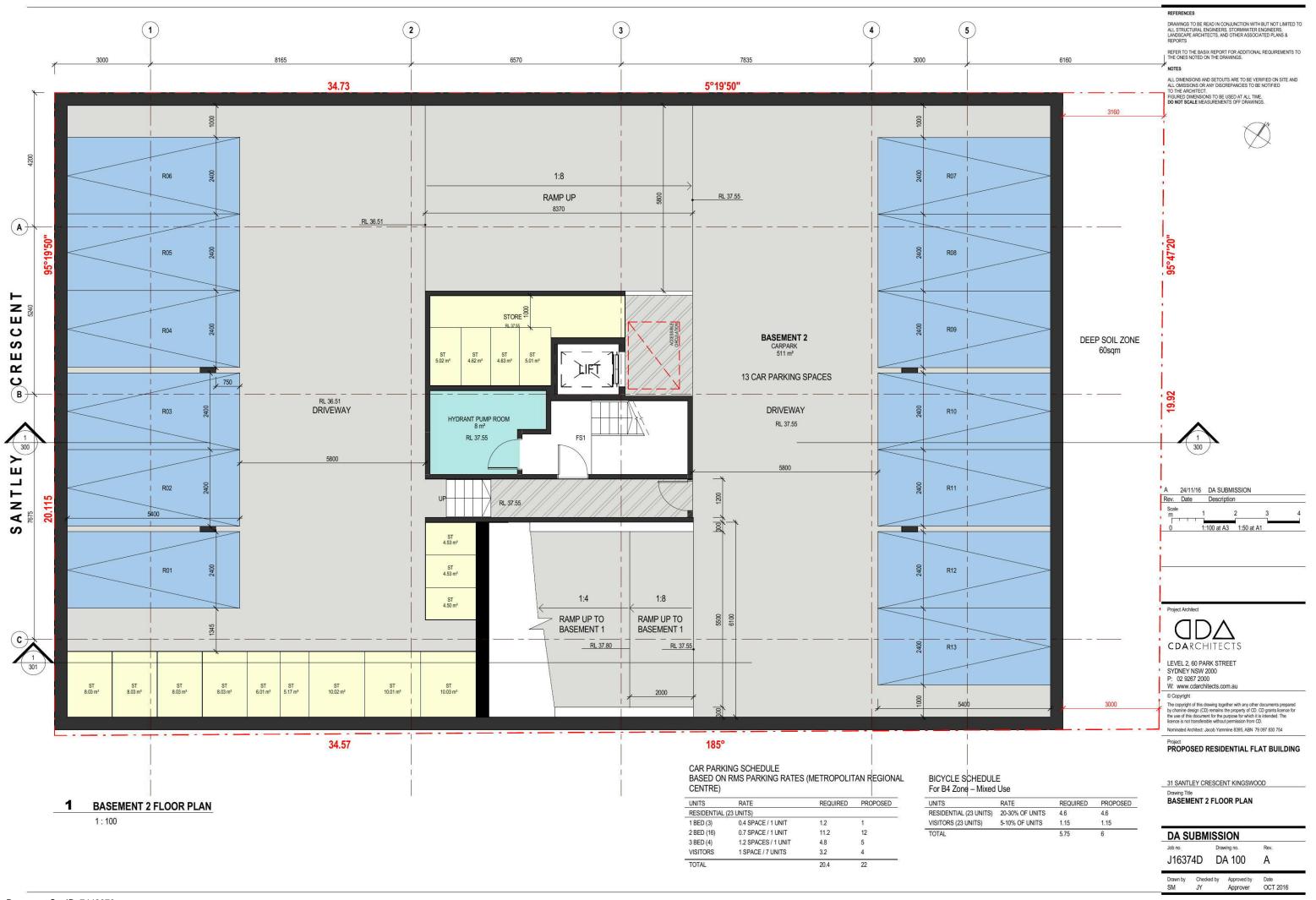
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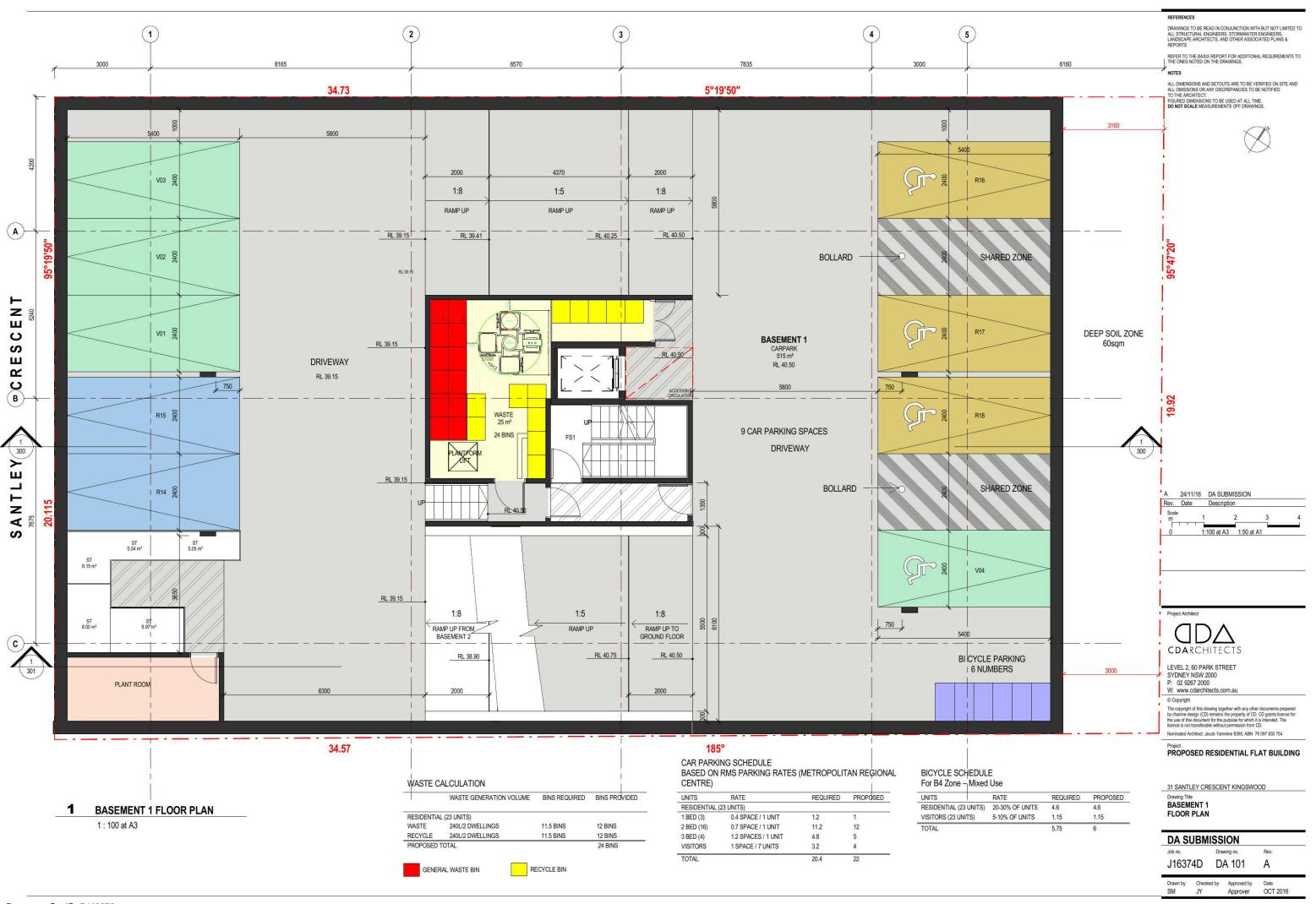
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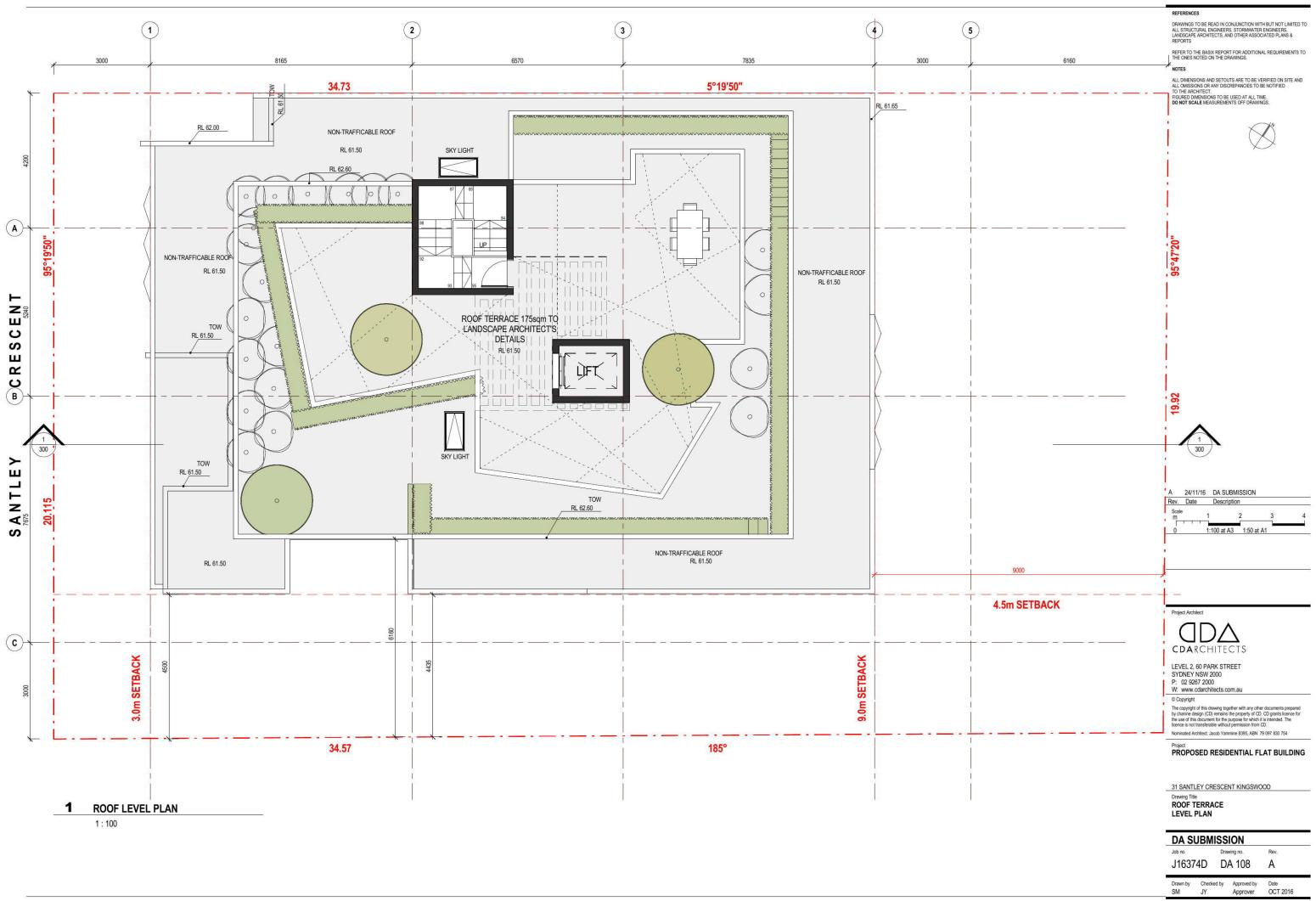
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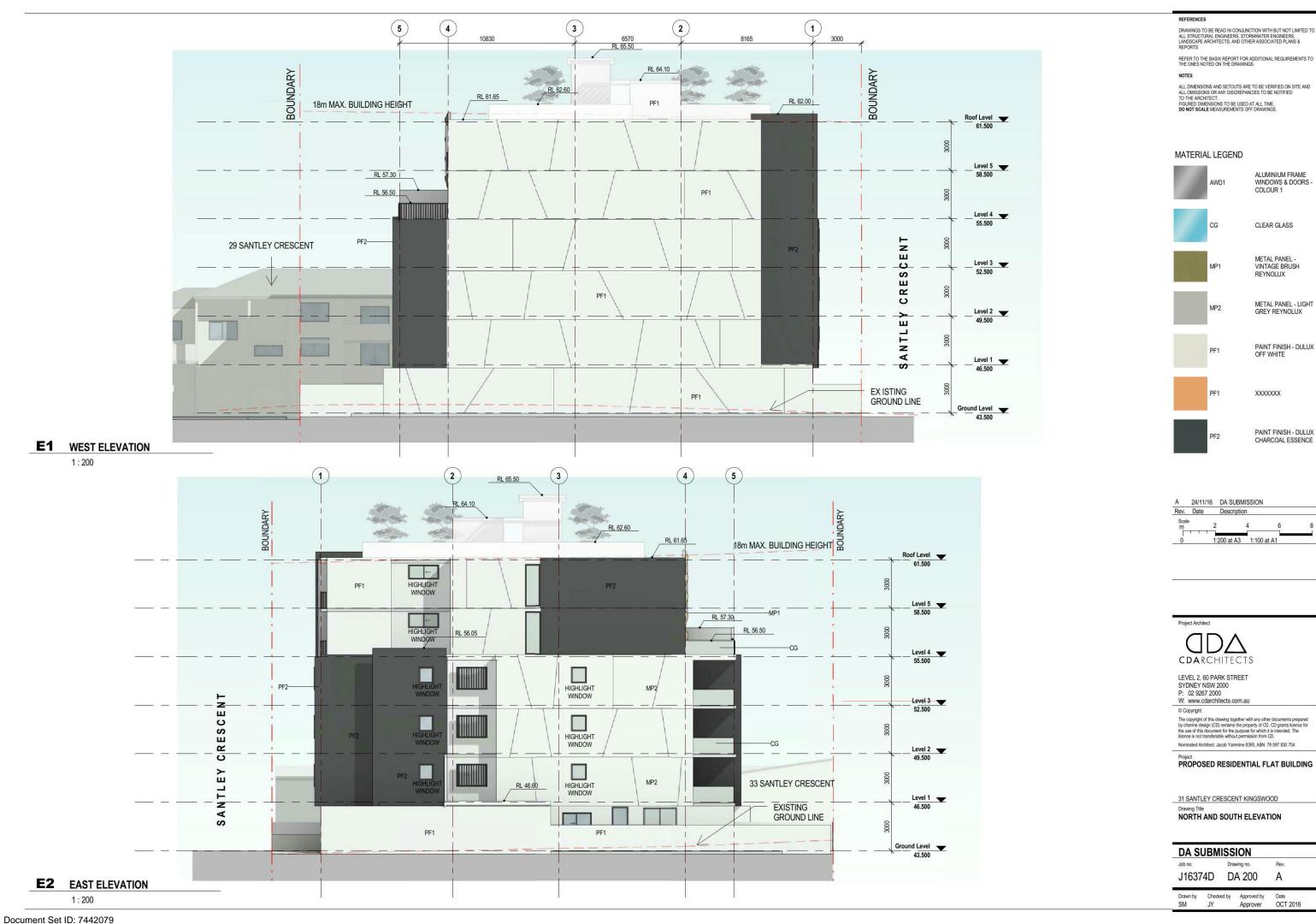
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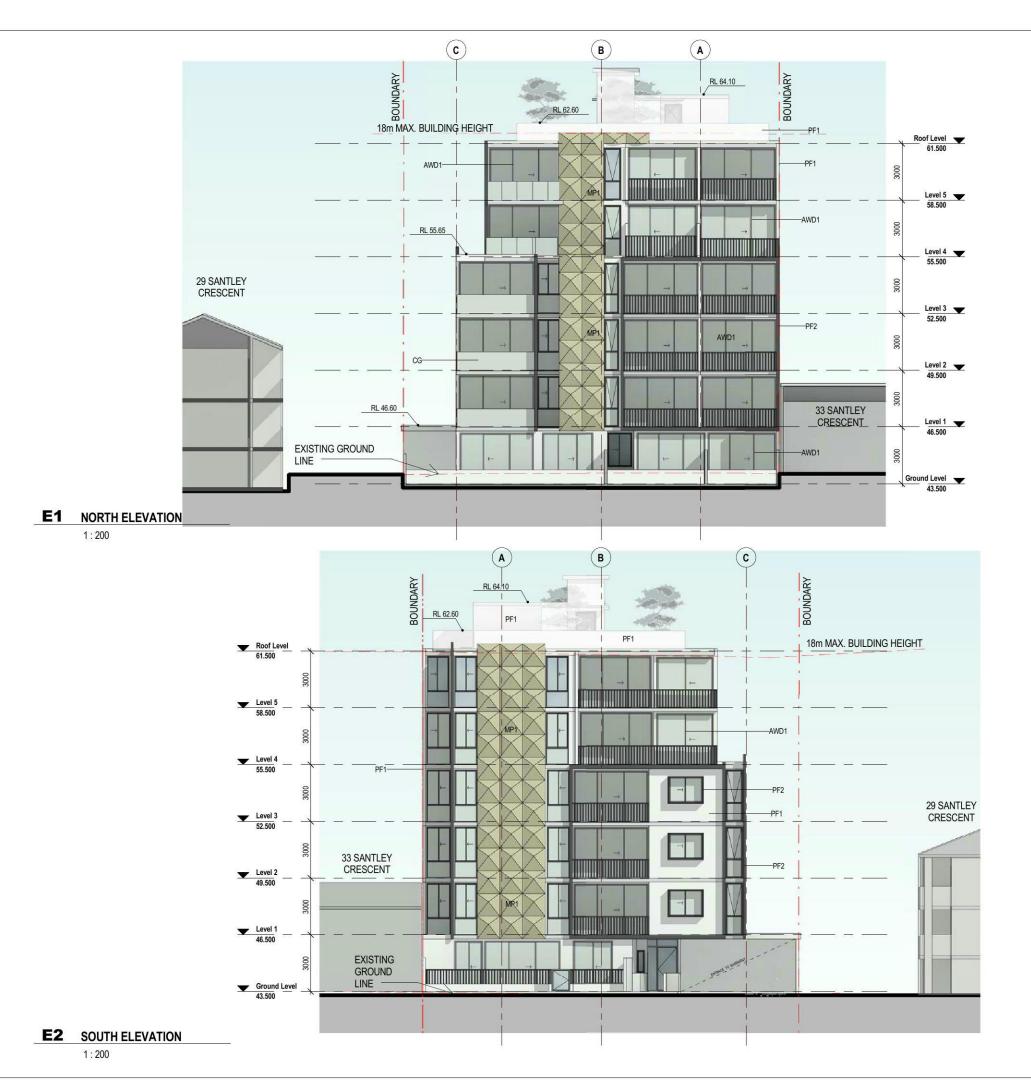
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MATERIAL LEGEND



CLEAR GLASS







XXXXXXX



| Rev. | Date | Desc | cription | | |
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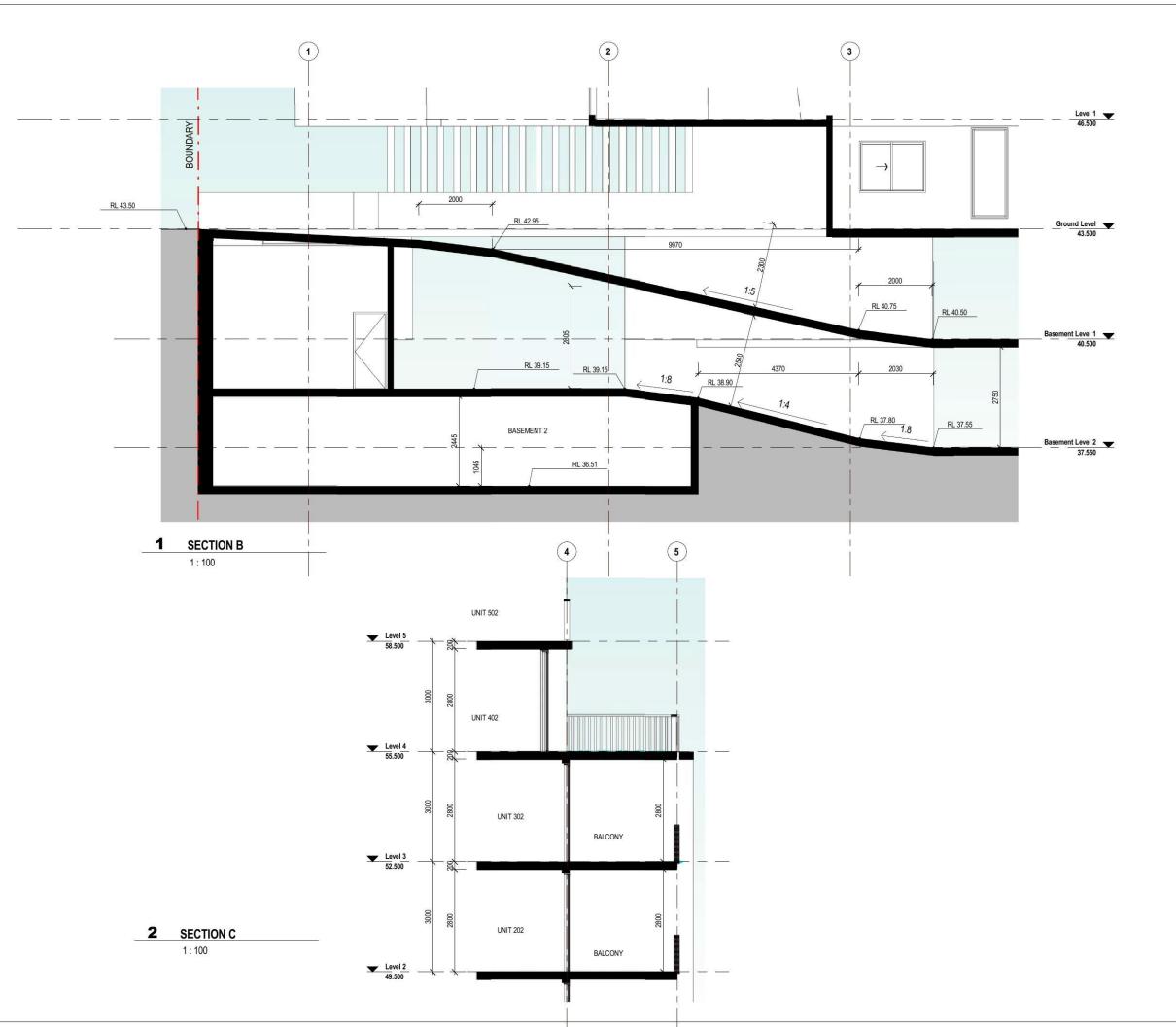
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Nominated Architect: Jacob Yammine 8395, ABN 79 097 830 754

Project
PROPOSED RESIDENTIAL FLAT BUILDING

31 SANTLEY CRESCENT KINGSWOOD

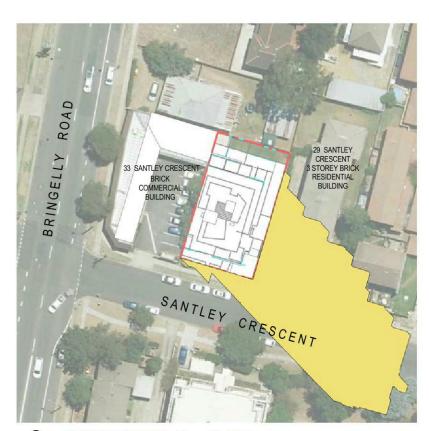
Drawing Title
SECTIONS 2

DA SUBMISSION

J16374D DA 301 Drawn by Checked by Approved by SS JY Approver



SHADOW DIAGRAM - 09am, 21 JUNE



3 SHADOW DIAGRAM - 03pm, 21 JUNE

1:1000



SHADOW DIAGRAM - 12noon, 21 JUNE 1:1000

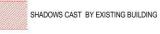
DRAWINGS TO BE READ IN CONJUNCTION WITH BUT NOT LIMITED TO ALL STRUCTURAL ENGINEERS, STORMWATER ENGINEERS, LANDSCAPE ARCHITECTS, AND OTHER ASSOCIATED PLANS & REPORTS

REFER TO THE BASIX REPORT FOR ADDITIONAL REQUIREMENTS TO THE ONES NOTED ON THE DRAWINGS.

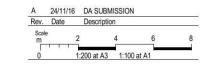
ALL DIMENSIONS AND SETOUTS ARE TO BE VERIFIED ON SITE AND ALL OMISSIONS OR ANY DISCREPANCIES TO BE NOTIFIED TO THE ARCHITECT. FIGURED DIMENSIONS TO BE USED AT ALL TIME. DO NOT SCALE MEASUREMENTS OFF DRAWINGS.



SHADOW DIAGRAM LEGEND







Project Architect



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Project
PROPOSED RESIDENTIAL FLAT BUILDING

31 SANTLEY CRESCENT KINGSWOOD

Drawing Title
SHADOW DIAGRAMS

DA SUBMISSION

J16374D DA 600

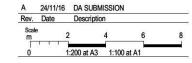
Document Set ID: 7442079 Version: 1, Version Date: 05/12/2016



REFER TO THE BASIX REPORT FOR ADDITIONAL REQUIREMENTS TO THE ONES NOTED ON THE DRAWINGS.

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Project
PROPOSED RESIDENTIAL FLAT BUILDING

31 SANTLEY CRESCENT KINGSWOOD

Drawing Title
PHOTOMONTAGE

DA SUBMISSION

J16374D DA 710



Document Set ID: 7442079 Version: 1, Version Date: 05/12/2016

ALUMINIUM FRAME WINDOWS & DOORS -COLOUR 1

METAL PANEL - LIGHT GREY REYNOLUX

PAINT FINISH - DULUX OFF WHITE

FOR 31 SANTLEY CRESCENT, KINGSWOOD N.S.W.

SYMBOLS

RL PIT SURFACE LEVEL

IL INVERT LEVEL

TK TOP OF KERB

STORMWATER DRAINAGE PIPE

DOWNPIPE TO RAINWATER TANK

OVERFLOW PIPE FROM RAINWATER TANK

ø100 SUBSOIL PIPE

■FW FLOOR WASTE 150X150

FW FLOOR WASTE 150Ø

●DP RAINWATER OUTLET 3000

PDP DOWN PIPE

CO CLEAN OUT

IO INSPECTION OPENING

VD VERTICAL DROP

●VR VERTICAL RISER

CONCRETE COVER JUNCTION PIT

OVERLAND FLOW PATH

GRATED INLET PIT
WIDE GRATED DRAIN

NOTES

- 1. ALL LINES ARE TO BE MIN. 1000 $\underline{\text{U}}\text{PVC}$ @ MIN 1.0% GRADE UNLESS NOTED OTHERWISE.
- 2. IT IS THE CONTRACTORS RESPONSIBILITY TO LOCATE & LEVEL ALL EXISTING SERVICES PRIOR TO THE COMMENCEMENT OF ANY EARTHWORKS. ALL DESIGN LEVELS SHOWN ON PLAN SHALL BE VERIFIED ON SITE PRIOR TO THE COMMENCEMENT OF ANY WORK.
- 3. ALL PIPES TO HAVE MIN 200mm COVER IF LOCATED WITHIN PROPERTY.
- 4. ALL PITS IN DRIVEWAYS BE HEAVY DUTY GRATES. DIRECT SURFACE FLOW TO ALL GRATED SURFACE INLET PITS.
- 5. ALL WORK DO BE DONE IN ACCORDANCE WITH AS/NZ 3500.3.2:1998 AND COUNCIL SPECIFICATIONS.
- 6. LOCATION OF DOWNPIPES & FLOOR WASTES ARE INDICATIVE ONLY. DOWNPIPE & FLOOR WASTE SIZE, LOCATION & QUANTITY TO BE DETERMINED BY BUILDER & IN ACCORDANCE WITH RELEVANT AUSTRALIAN STANDARDS.
- 7. THIS PLAN IS TO BE READ IN CONJUNCTION WITH THE ARCHITECTURAL, LANDSCAPE AND STRUCTURAL PLANS.
- 8. ANY DISCREPANCIES OR OMISSIONS SHALL BE REFERRED TO THE DESIGN ENGINEER FOR RESOLUTION.
- 9. ALL PITS OR GRATES IN TRAFFICABLE AREAS TO BE HEAVY DUTY.
- 10. ALL GUTTERS WILL BE FITTED WITH LEAF GUARDS AND SHOULD BE INSPECTED AND CLEANED TO ENSURE LEAF LITTER CANNOT ENTER THE DOWNPIPES
- 11. PROVIDE EMERGENCY OVERFLOW TO ALL PLANTER BOX AND BALCONIES.
- 12. ALL PITS WITH DEPTH MORE THAN 1M MUST HAVE IRON STEPS.
- 13. PROVIDE STORMWATER GRATE 200Wx200D AT THE BASE OF ALL MECHANICAL SHAFTS AND UNCOVERED STAIRS OR OPENINGS.
- 14. ENSURE ALL DRAINAGE WORKS ARE AWAY FROM TREE ROOTS

<u>LEGEND</u>

REFER TO AS.3500 PART 3 TABLE 7.2
P1: 1000 UPVC PIPE AT 1.0% MIN. GRADE
P2: 1500 UPVC PIPE AT 1.0% MIN. GRADE
P3: 2250 UPVC PIPE AT 0.5% MIN. GRADE
P4: 3000 UPVC PIPE AT 0.4% MIN. GRADE
P5: 3750 UPVC PIPE AT 0.4% MIN. GRADE



AS 3500.3- TABLE 8.2 SIZE OF MINIMUM INTERNAL DIMENSIONS FOR STORMWATER AND INLET PITS

| | MINIMUM INTER | RNAL DIMENSION | S (mm) |
|---------------------|---------------|----------------|----------|
| DEPTH OF | | | |
| INVERT OF OUTLET | RECTANGULAR | CIRCULAR | |
| OUTLLT | WIDTH | LENGTH | DIAMETER |
| ≤600 | 450 | 450 | 600 |
| >600 ≤900 | 600 | 600 | 900 |
| >900 ≤1200 | 600 | 900 | 1000 |
| >1200 | 900 | 900 | 1000 |

<u>DRAWING SCHEDULE</u>

| DRAWING No. | DRAWING TITLE |
|-------------|---|
| D00 | COVER SHEET, LEGEND & DRAWING SCHEDULE |
| DO1 | BASEMENT 2 STORMWATER DRAINAGE PLAN |
| D02 | BASEMENT 1 STORMWATER DRAINAGE PLAN |
| D03 | GROUND FLOOR STORMWATER DRAINAGE PLAN |
| D04 | PIPE LINE CONTINUATION |
| | |
| D06 | SITE STORMWATER DRAINAGE DETAILS PAGE 1 |
| D07 | SITE STORMWATER DRAINAGE DETAILS PAGE 2 |
| | |
| D09 | CATCHMENT AREA- MUSIC MODEL BREAKDOWN PLAN |
| D10 | EROSION AND SEDIMENT CONTROL PLAN & DETAILS |

A10 1 2 3 4 5 6 7 8 9 10

A FOR D.A. APPROVAL

O.C. S.N. 03.11.16

OAMENDMENT

ENG DRAFT DATE

NO AMENDMENT

ENG DRAFT DATE

OAMENDMENT

A FOR D.A. APPROVAL

OAMENDMENT

OAMEND

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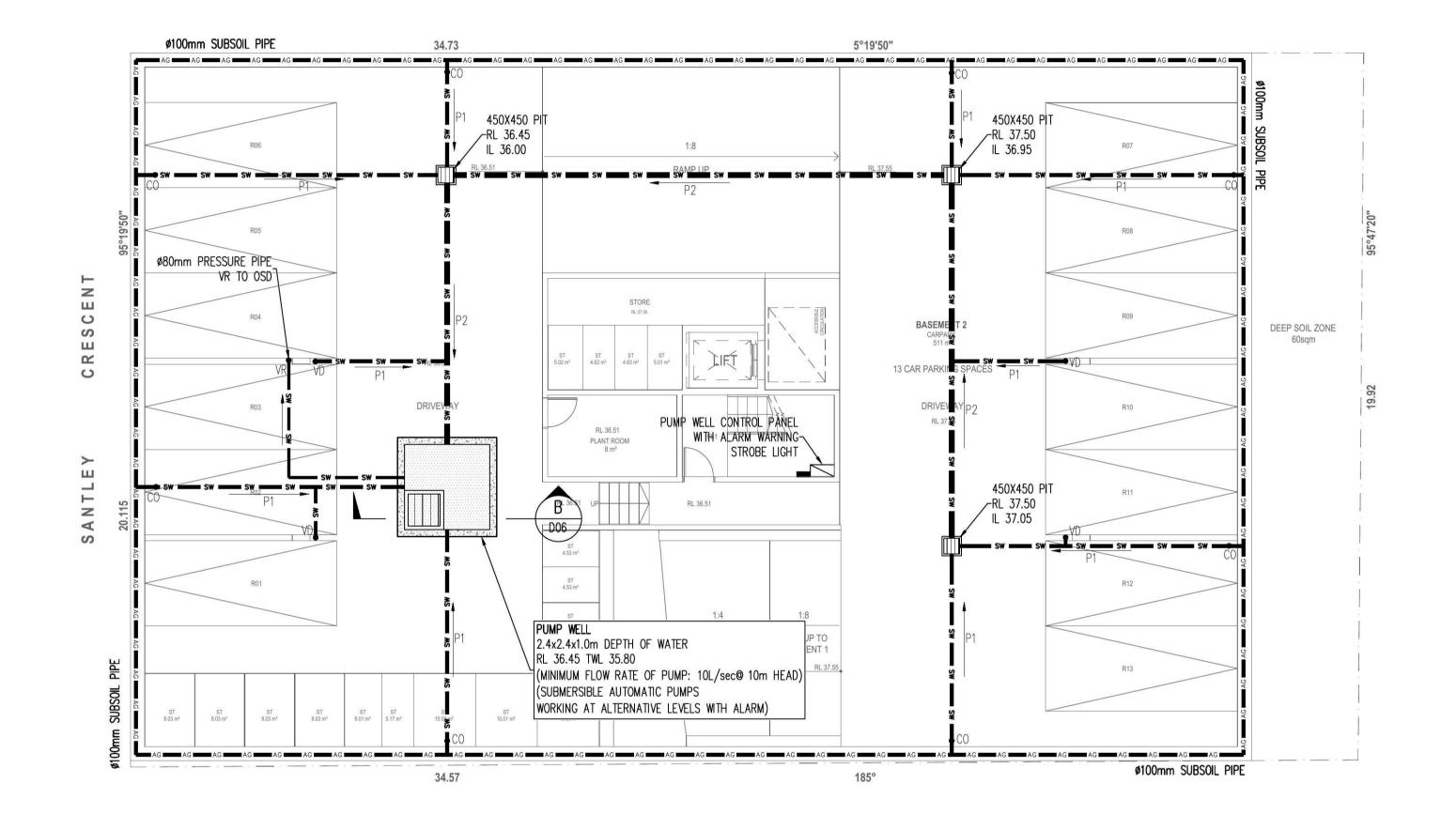
AUSTRALIAN
CONSULTING
ENGINEERS.

AUSTRALIAN
CONSULTING
ENGINEERS.

PTY LTD - A.C.N. 084 059 941
SHOP 2-14I CONCORD RD NORTH STRATHFIELD NSW 213
PH: (02) 9763 1500 FX: (02) 9763 1515
EMAIL: info@aceeng.com.au

PROPOSED RESIDENTIAL BUILDING
31 SANTLEY CRESCENT
KINGSWOOD

| SHEET SUBJECT | PROJECT 31 SANTLEY CRESCENT, KINGSV | WOOD |
|--|-------------------------------------|----------------------------------|
| COVER SHEET, LEGEND & DRAWING SCHEDULE | OCT 2016 S.N. SCALE @ A1 NTS | S.N. CHECKED O.C. JOB No 161086 |
| ARCH. REF: | Dr. Anthony Hasham | DWG No REV |



LEGEND

REFER TO AS.3500 PART 3 TABLE 7.2 P1: 1000 UPVC PIPE AT 1.0% MIN. GRADE P2 : 1500 UPVC PIPE AT 1.0% MIN. GRADE P3: 225¢ UPVC PIPE AT 0.5% MIN. GRADE P4 : 3000 UPVC PIPE AT 0.4% MIN. GRADE P5 : 375¢ UPVC PIPE AT 0.4% MIN. GRADE



<u>NOTES</u>

- 1. ALL LINES ARE TO BE MIN. 1000 UPVC @ MIN 1.0% GRADE UNLESS NOTED OTHERWISE.
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- 3. ALL PIPES TO HAVE MIN 200mm COVER IF LOCATED WITHIN
- 4. ALL PITS IN DRIVEWAYS BE HEAVY DUTY GRATES. DIRECT SURFACE FLOW TO ALL GRATED SURFACE INLET PITS.
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- 10. ALL GUTTERS WILL BE FITTED WITH LEAF GUARDS AND SHOULD BE INSPECTED AND CLEANED TO ENSURE LEAF LITTER CANNOT ENTER THE DOWNPIPES

<u>SYMBOLS</u> PIT SURFACE LEVEL INVERT LEVEL TOP OF KERB STORMWATER DRAINAGE PIPE DOWNPIPE TO RAINWATER TANK OVERFLOW PIPE FROM RAINWATER TANK **Ø100 SUBSOIL PIPE** FLOOR WASTE 150X150 FLOOR WASTE 150Ø RAINWATER OUTLET 3000 DOWN PIPE CLEAN OUT INSPECTION OPENING VERTICAL DROP VERTICAL RISER CONCRETE COVER JUNCTION PIT GRATED INLET PIT

WIDE GRATED DRAIN

OVERLAND FLOW PATH

| A | 1 | 0 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | | - |
|---|---|-----|-------|---|---|---|---|---|---|---|----|--|---|
| | | | | | | | | | | | | | |
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A FOR D.A. APPROVAL O.C. S.N. 03.11.16 **AMENDMENT** ENG DRAFT DATE No **AMENDMENT** ENG DRAFT DATE No **AMENDMENT** ENG DRAFT DATE

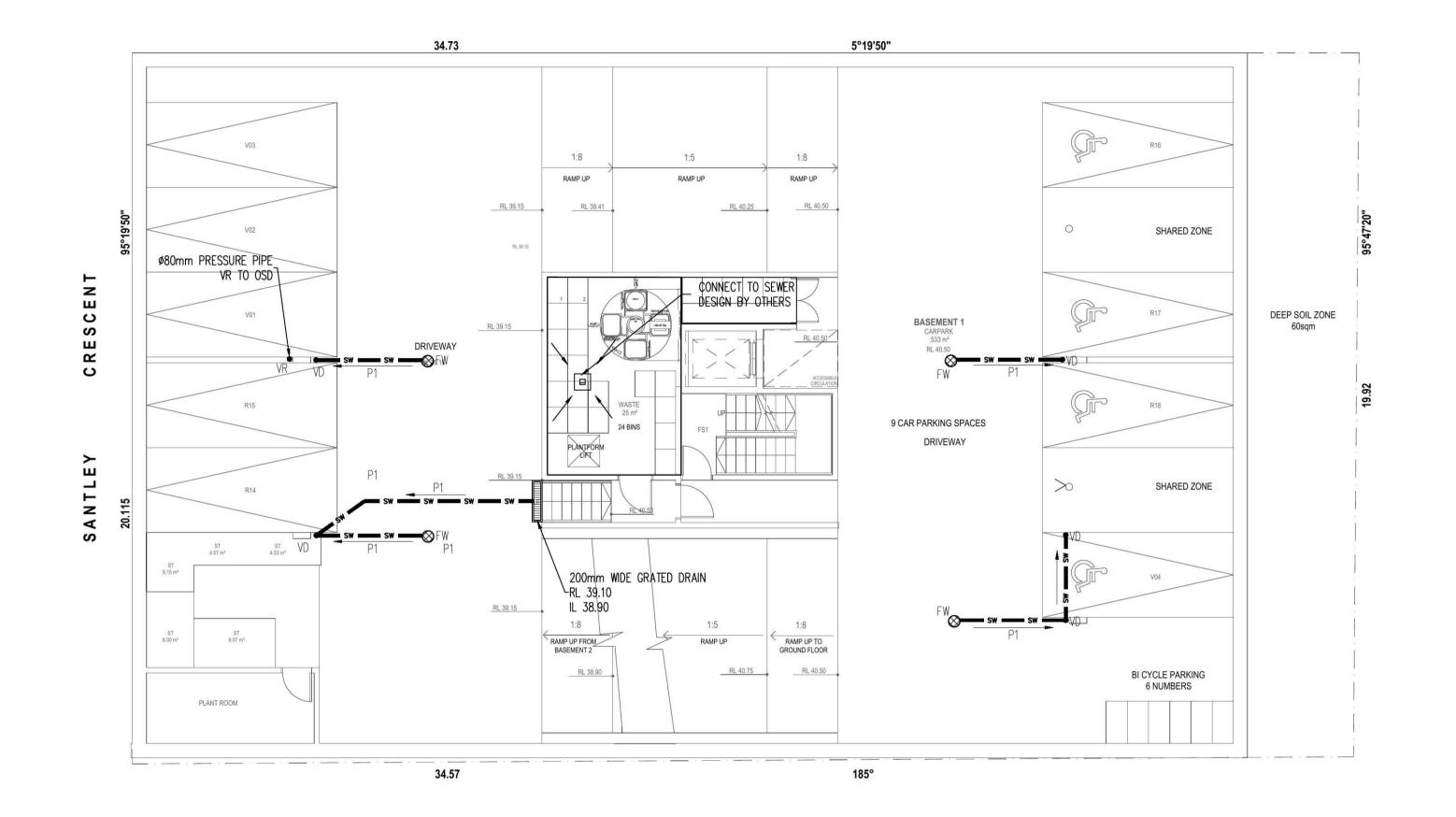
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PROPOSED RESIDENTIAL BUILDING 31 SANTLEY CRESCENT

| SHEET SUBJECT | PROJECT 31 SANTLEY CRESCENT, KINGS | WOOD |
|-----------------------|------------------------------------|-------------------|
| BASEMENT 2 STORMWATER | OCT 2016 S.N. | S.N. CHECKED O.C. |
| DRAINAGE PLAN | SCALE @ A1 1:100 | 161086 |
| 10011 055 | AUTHORISED | DWG No REV |
| ARCH. REF: | Dr. Anthony Hasham | D01 A |



<u>LEGEND</u>

REFER TO AS.3500 PART 3 TABLE 7.2
P1: 1000 UPVC PIPE AT 1.0% MIN. GRADE
P2: 1500 UPVC PIPE AT 1.0% MIN. GRADE
P3: 2250 UPVC PIPE AT 0.5% MIN. GRADE
P4: 3000 UPVC PIPE AT 0.4% MIN. GRADE
P5: 3750 UPVC PIPE AT 0.4% MIN. GRADE



<u>NOTES</u>

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WIDE GRATED DRAIN

OVERLAND FLOW PATH

A10 1 2 3 4 5 6 7 8 9 10





PROPOSED RESIDENTIAL BUILDING 31 SANTLEY CRESCENT KINGSWOOD

| Т | SHEET SUBJECT | PROJECT 31 SAN | TLEY CRESCENT, KINGSV | VOOD | | |
|---|-----------------------|---------------------|-----------------------|---------------|--------|-----|
| | BASEMENT 1 STORMWATER | OCT 2016 | S.N. | DESIGNED S.N. | O.C. | 9 |
| | DRAINAGE PLAN | SCALE @ A1 1:100 | | JOB No | 161086 | |
| ŀ | | AUTHORISED | | DWG No | 20 2 2 | REV |
| | ARCH. REF: | Dr. Anthor | ny Hasham | | D02 | Α |



PROJECT 31 SANTLEY CRESCENT, KINGSWOOD

Dr. Anthony Hasham

1:100

161086

Document Set ID: 7442079 Version: 1, Version Date: 05/12/2016

A FOR D.A. APPROVAL

AMENDMENT

WARNING

PUMP OUT SYSTEM **FAILURE IN BASEMENT** WHEN LIGHT IS FLASHING AND SIREN SOUNDING

COLOURS: WARNING - RED

BORDER AND OTHER - BLACK

NOTES:

SIGN SHALL BE PLACED IN A CLEAR AND VISIBLE LOCATION WHERE VEHICLES ENTER THE BASEMENT.

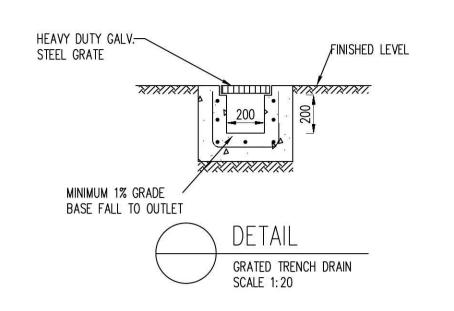
A SUITABLE ALARM SYSTEM POSITIONED AT ENTRANCE OF BASEMENT CARPARK TO PROVIDE A FLOOD WARNING IN CASE OF PUMP FAILURE (TO COUNCILS SPEC).

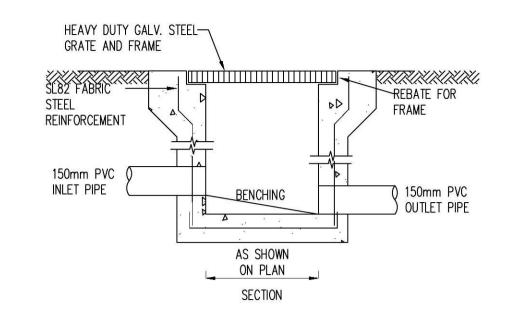


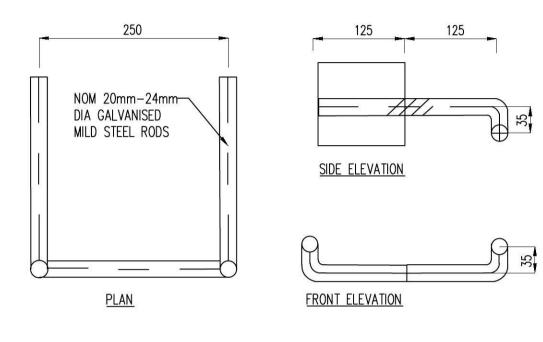
WIDTH 200MM

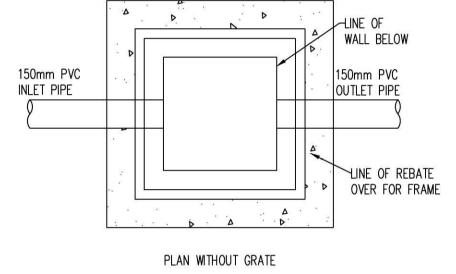
COLOURS: "DANGER" AND BACKGROUND WHITE RED ELLIPTICAL AREA RECTANGLE CONTAINING ECLIPSE BLACK OTHER LETTERING AND BORDER **BLACK**

MATERIALS: POLYPROPYLENE

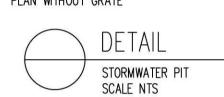




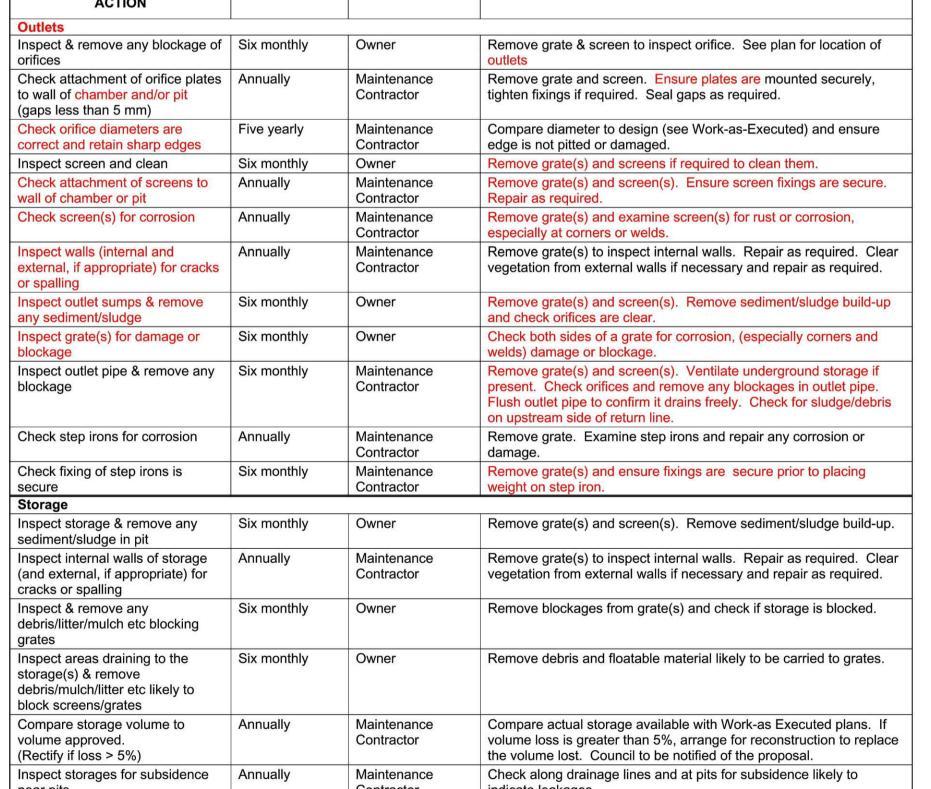




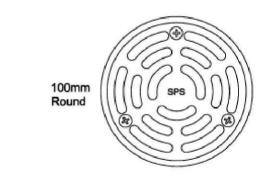




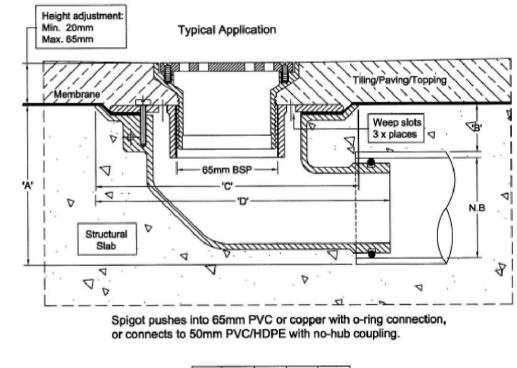
| MAINTENANCE ACTION | FREQUENCY | RESPONSIBILITY | PROCEDURE |
|--|-------------|---------------------------|--|
| Outlets | | 200 | |
| Inspect & remove any blockage of orifices | Six monthly | Owner | Remove grate & screen to inspect orifice. See plan for location of outlets |
| Check attachment of orifice plates to wall of chamber and/or pit (gaps less than 5 mm) | Annually | Maintenance Contractor | Remove grate and screen. Ensure plates are mounted securely, tighten fixings if required. Seal gaps as required. |
| Check orifice diameters are correct and retain sharp edges | Five yearly | Maintenance Contractor | Compare diameter to design (see Work-as-Executed) and ensure edge is not pitted or damaged. |
| Inspect screen and clean | Six monthly | Owner | Remove grate(s) and screens if required to clean them. |
| Check attachment of screens to wall of chamber or pit | Annually | Maintenance Contractor | Remove grate(s) and screen(s). Ensure screen fixings are secure. Repair as required. |
| Check screen(s) for corrosion | Annually | Maintenance Contractor | Remove grate(s) and examine screen(s) for rust or corrosion, especially at corners or welds. |
| Inspect walls (internal and external, if appropriate) for cracks or spalling | Annually | Maintenance Contractor | Remove grate(s) to inspect internal walls. Repair as required. Clear vegetation from external walls if necessary and repair as required. |
| Inspect outlet sumps & remove any sediment/sludge | Six monthly | Owner | Remove grate(s) and screen(s). Remove sediment/sludge build-up and check orifices are clear. |
| Inspect grate(s) for damage or blockage | Six monthly | Owner | Check both sides of a grate for corrosion, (especially corners and welds) damage or blockage. |
| Inspect outlet pipe & remove any blockage | Six monthly | Maintenance Contractor | Remove grate(s) and screen(s). Ventilate underground storage if present. Check orifices and remove any blockages in outlet pipe. Flush outlet pipe to confirm it drains freely. Check for sludge/debris on upstream side of return line. |
| Check step irons for corrosion | Annually | Maintenance Contractor | Remove grate. Examine step irons and repair any corrosion or damage. |
| Check fixing of step irons is secure | Six monthly | Maintenance Contractor | Remove grate(s) and ensure fixings are secure prior to placing weight on step iron. |
| Storage | | | |
| Inspect storage & remove any sediment/sludge in pit | Six monthly | Owner | Remove grate(s) and screen(s). Remove sediment/sludge build-up. |
| Inspect internal walls of storage (and external, if appropriate) for cracks or spalling | Annually | Maintenance Contractor | Remove grate(s) to inspect internal walls. Repair as required. Clear vegetation from external walls if necessary and repair as required. |
| Inspect & remove any debris/litter/mulch etc blocking grates | Six monthly | Owner | Remove blockages from grate(s) and check if storage is blocked. |
| Inspect areas draining to the storage(s) & remove debris/mulch/litter etc likely to block screens/grates | Six monthly | Owner | Remove debris and floatable material likely to be carried to grates. |
| Compare storage volume to volume approved. (Rectify if loss > 5%) | Annually | Maintenance Contractor | Compare actual storage available with Work-as Executed plans. If volume loss is greater than 5%, arrange for reconstruction to replace the volume lost. Council to be notified of the proposal. |
| Inspect storages for subsidence near pits | Annually | Maintenance Contractor | Check along drainage lines and at pits for subsidence likely to indicate leakages. |

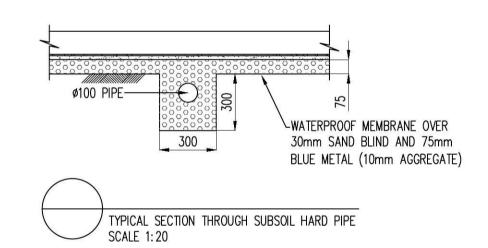


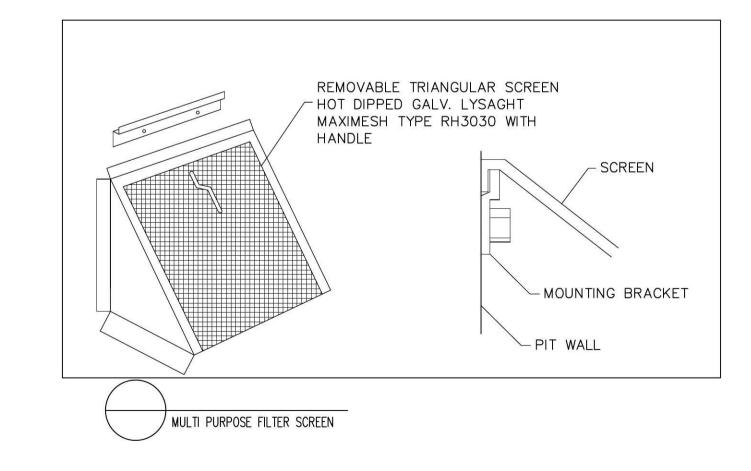
SPS 100mm Round Vari-Level Side Outlet Drain Specification code: R100B/C90 (brass grate, ABS lower body) 65/50mm outlet R100N/C90 (nickel bronze grate, ABS lower body) R100S4/C90 (polished 304 stainless steel, ABS lower body) R100S/C90 (satin 316 stainless steel grate, ABS lower body)



 Round grate available in nickel bronze, 304 & 316 stainless Steel. Bronze ABS 90° Body and Reversible Membrane Clamp Collar with female 65mm BSP thread.









SAMPLE OSD MAINTENANCE SCHEDULE UPRCT HANDBOOK, 2005

| | A1 11 0 1 2 3 | 4 5 | 6 | 7 | 8 | 9 10 | | | - | | | | | |
|---|----------------------|------|-------|----------|----|-----------|-----|-------|------|----|-----------|-----|-------|------|
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| | | | | | | | | | | | | | | |
| | FOR D.A. APPROVAL | 0.C. | S.N. | 03.11.16 | | | | | | | | | | |
| 0 | AMENDMENT | ENG | DRAFT | DATE | No | AMENDMENT | ENG | DRAFT | DATE | No | AMENDMENT | ENG | DRAFT | DATE |

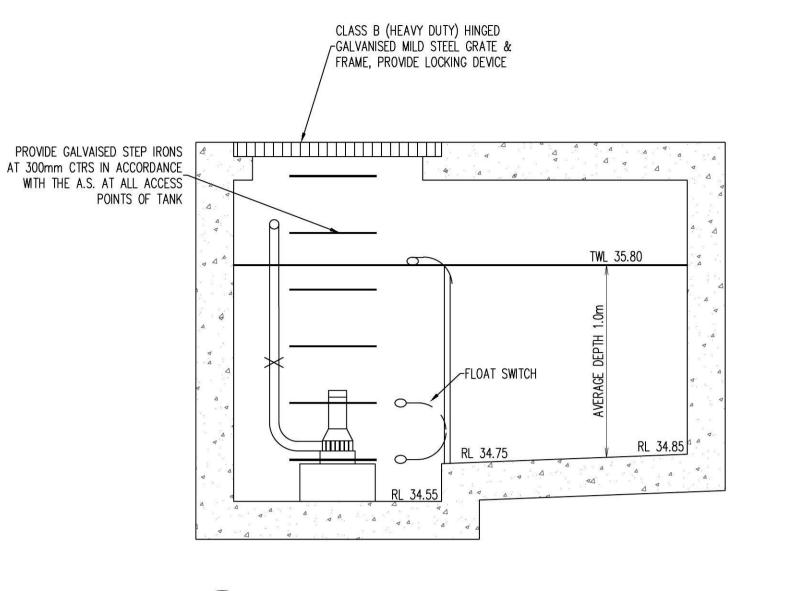
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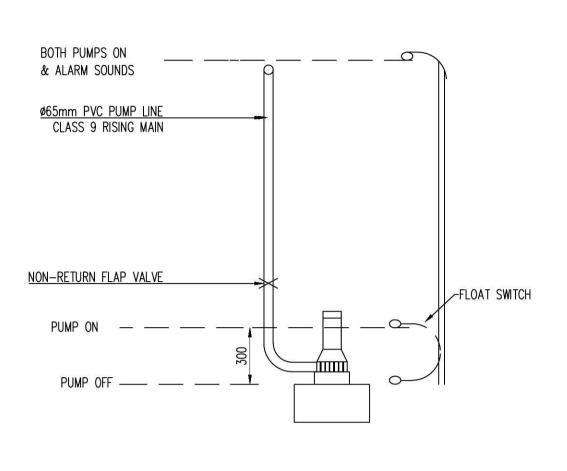
PROPOSED RESIDENTIAL BUILDING 31 SANTLEY CRESCENT

| SHEET SUBJECT | PROJECT 31 SAN | TLEY CRESCENT, KINGSV | VOOD | | |
|---------------------------------------|------------------------------|-----------------------|----------------------|------|-----------------|
| SITE STORMWATER DRAINAGE DETAILS 1 | OCT 2016 SCALE @ A1 AS SHOWN | S.N. | DESIGNED S.N. JOB No | 0.C. | |
| ARCH. REF: | authorised Dr. Anthor | ny Hasham | DWG No | D06 | REV A |

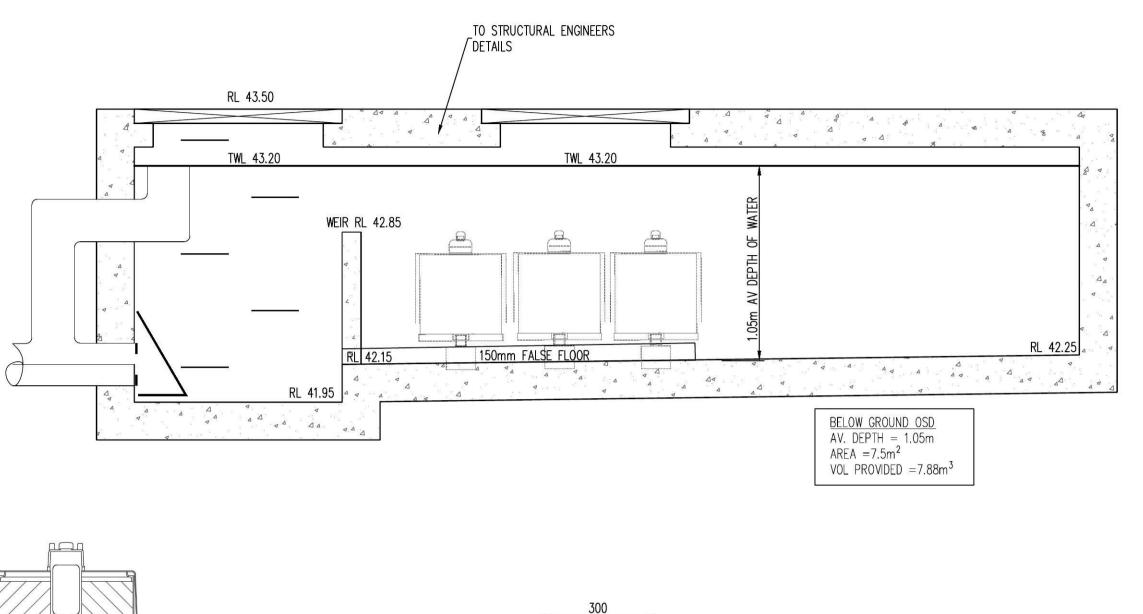


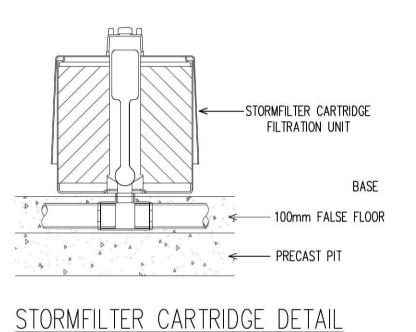


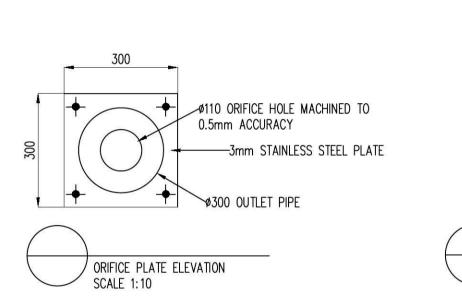
TYPICAL SECTION THROUGH PUMP PIT

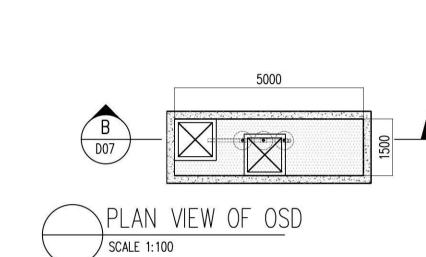


TYPICAL SECTION OF PUMP









PUMP SPECIFICATIONS STANDARD PUMP-OUT NOTES

THE PUMP-OUT SYSTEM IS DESIGNED TO WORK IN THE FOLLOWING MANNER -

1. THE PUMPS SHALL BE PROGRAMMED TO WORK ALTERNATELY SO AS TO ALLOW BOTH PUMPS TO HAVE EQUAL OPERATION LOAD & PUMP LIFE.

DO1 SCALE 1: 20 PUMP WELL VOLUME 5.76m³

- 2. A LOW LEVEL FLOAT SHALL BE PROVIDED TO ENSURE THAT THE MINIMUM REQUIRED WATER LEVEL IS MAINTAINED WITHIN THE SUMP AREA OF THE BELOW GROUND TANK. IN THIS REGARD THIS FLOAT WILL FUNCTION AS AN OFF SWITCH FOR THE PUMPS.
- 3. A SECOND FLOAT SHALL BE PROVIDED AT A HIGHER LEVEL, APPROXIMATELY 300mm ABOVE THE MINIMUM WATER LEVEL, WHEREBY ONE OF THE PUMPS WILL OPERATE & DRAIN THE TANK TO THE LEVEL OF THE LOW LEVEL FLOAT.
- 4. A THIRD FLOAT SHALL BE PROVIDED AT A HIGH LEVEL, WHICH IS APPROXIMATELY THE ROOF LEVEL OF THE BELOW GROUND TANK. THIS FLOAT SHOULD START THE OTHER PUMP THAT IS NOT OPERATING & ACTIVATE THE ALARM.
- 5. AN ALARM SYSTEM SHALL BE PROVIDED WITH A FLASHING STROBE LIGHT & A PUMP FAILURE WARNING SIGN WHICH ARE TO BE LOCATED AT THE DRIVEWAY ENTRANCE TO THE BASEMENT LEVEL. THE ALARM SYSTEM SHALL BE PROVIDED WITH A BATTERY BACK-UP IN CASE OF POWER FAILURE.

PUMP WELL DETAILS

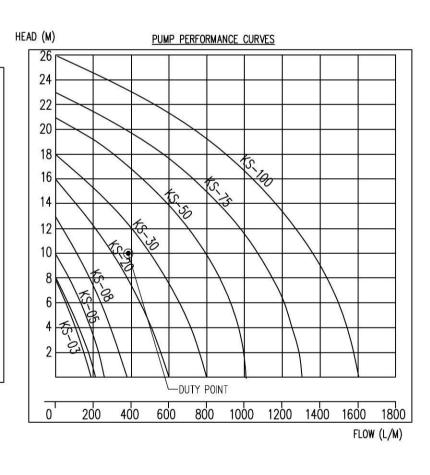
AREA DRAINING TO SUMP= 65.0m²

SUMP SIZE BASED ON 100 YEAR 2 HR STORM, I= 44.1 mm/hr, Q=CIA/3600= 1X 44.1 X 60.0/3600 = 0.80 L/secVOLUME REQUIRED = $0.80 \text{ X}(2x60x60) = 5733 \text{ L} = 5.7\text{m}^3$ (MIN. VOLUME REQUIRED AS PER AS3500.3 IS 3.0m³) STORAGE PROVIDED 2.4X2.4X1.0= 5.76m³

DO1 SCALE 1:20

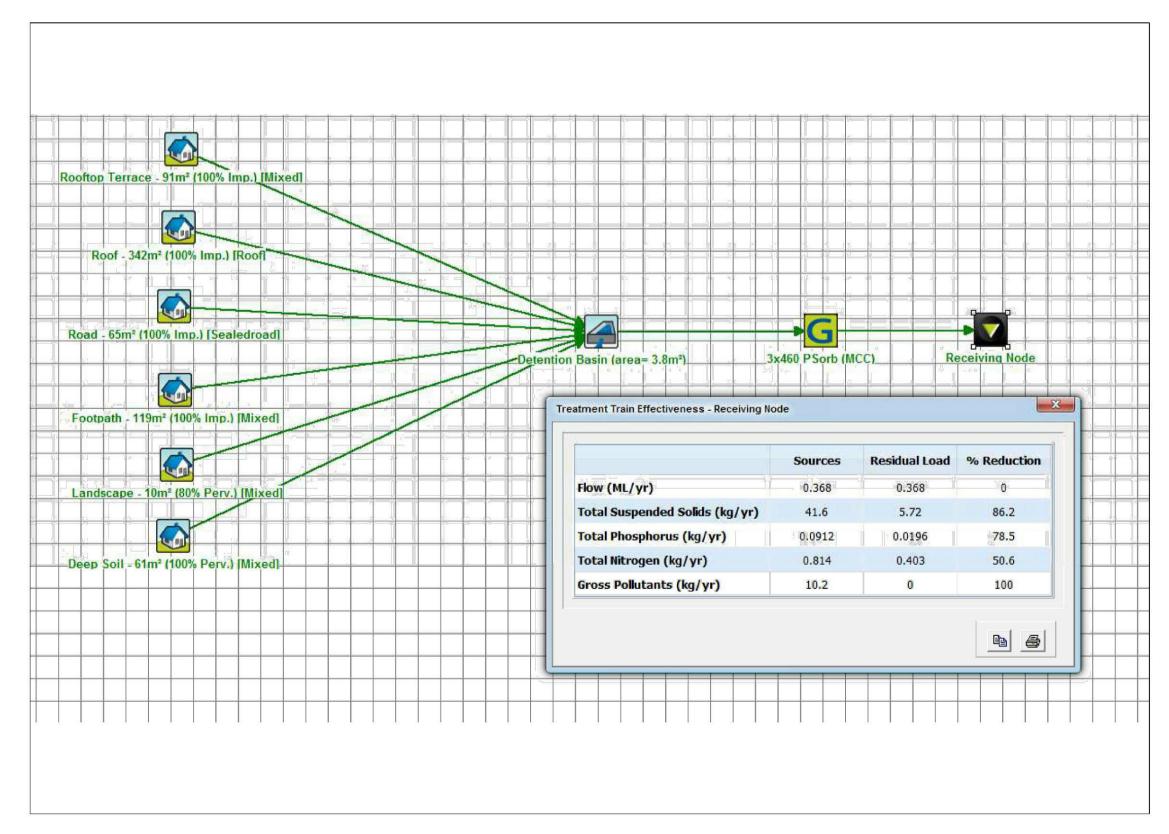
PUMP OUT RATE BASED ON 100YR 6MIN STORM, I=206 mm/hr (MIN RATE REQUIRED AS PER AS3500.3 IS 10 L/sec) Q=CIA/3600= 1X 206X 60.0/3600 = 3.43 L/sec

DUAL KS-30 PUMP OR EQUIVALENT TO BE INSTALLED IN SUMP AND CONNECTED TO CONTROL PANEL WHICH WILL ALLOW FOR THE PUMPS TO OPERATE ALTERNATIVELY ON HIGH LEVEL ALARMS AT 10 L/sec (PER PUMP) AT 10m HEAD



| | Out | mut. | 0 | tlet | Ra | ted | Maxi | mum | Weigh | Dimension | | | | |
|-----------|-------|------|-----|--------|--------|---------|------|----------|-------|-----------|-------|-------|--|--|
| Type | Out | put | Ou | tiet | Head C | apacity | Head | Capacity | weign | Dimension | | | | |
| (40)(000) | HP | kW | mm | Inch | M | LPM | М | LPM | Kg | L(mm) | W(mm) | H(mm) | | |
| KS-03 | 1/3 | 0.25 | 40 | 1 1/2" | 3 | 130 | 8 | 180 | 9 | 188 | 141 | 305 | | |
| KS-04 | 1/2 | 0.4 | 50 | 2" | 5 | 150 | 8 | 220 | 11 | 208 | 140 | 359 | | |
| KS-05 | 1/2 | 0.4 | 50 | 2" | 5 | 160 | 10 | 260 | 14 | 230 | 156 | 375 | | |
| KS-08 | 1 | 0.75 | 50 | 2" | 6 | 240 | 13 | 380 | 21 | 290 | 180 | 425 | | |
| KS-20 | 2 | 1.5 | 80 | 3" | 10 | 300 | 16 | 600 | 31 | 278 | 182 | 475 | | |
| KS-30 | 3 | 2.2 | 80 | 3" | 10 | 500 | 18 | 800 | 42 | 390 | 250 | 450 | | |
| KS-50 | 5 | 3.7 | 100 | 4" | 10 | 800 | 21 | 1100 | 48 | 450 | 240 | 530 | | |
| KS-75 | 7 1/2 | 5.6 | 100 | 4" | 15 | 800 | 23 | 1300 | 60 | 550 | 310 | 590 | | |
| KS-100 | 10 | 7.5 | 150 | 6" | 18 | 900 | 25 | 1600 | 70 | 550 | 310 | 610 | | |

| | DRAINS MODEL RE | SULTS |
|---------------------------------|-----------------|------------------|
| STORM EVENT | PRE-DEVELOPMENT | POST-DEVELOPMENT |
| MAJOR STORM (100 YEAR ARI) | 31 L/s | 25 L/s |
| MODERATE STORM (20 YEAR ARI) | 25 L/s | 21 L/s |
| MINOR STORM (5 YEAR ARI) | 17 L/s | 17 L/s |



MUSIC MODEL SNAPSHOT

| 19 | 1 2 3 4 | 5 | 6 | 7 | 8 | 9 10 | | | | | | | | | |
|----|-------------------|------|-------|----------|----|-----------|-----|----------|----|----|-----------|-----|-------|------|---------|
| | | | | | | | | | | | | | | | ARCHITE |
| | | | | | | | | | | | | | | | |
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| 8 | | | | | | | | | | | | | | | LE |
| Α | FOR D.A. APPROVAL | 0.C. | S.N. | 03.11.16 | | | | | | | | | | | S |
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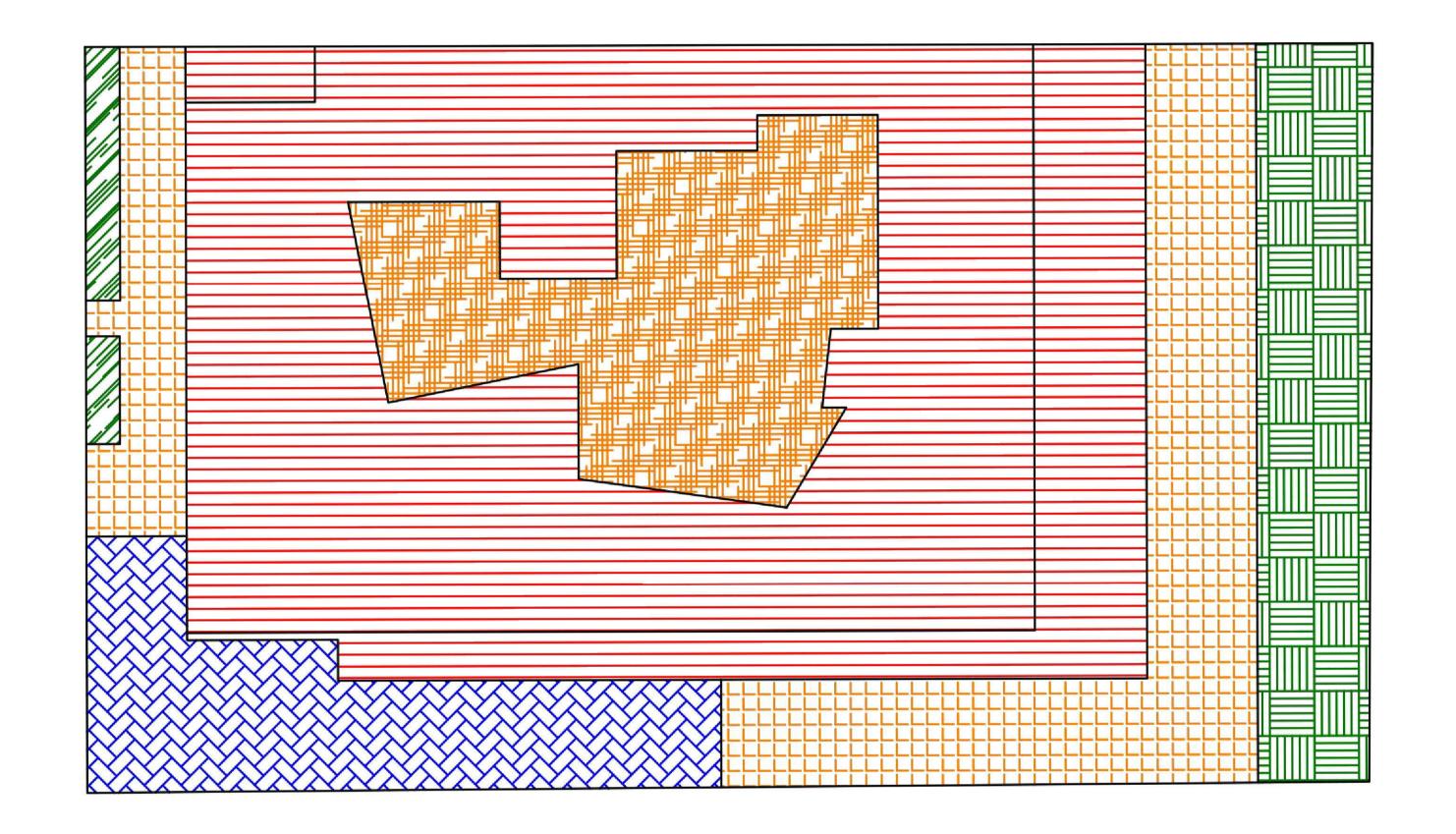
CDARCHITECTS LEVEL 2, 60 PARK STREET SYDNEY NSW 2000 P: 02 9267 2000 W: www.cdarchitects.com.au



PROPOSED RESIDENTIAL BUILDING 31 SANTLEY CRESCENT **KINGSWOOD**

| | SHEET SUBJECT | PROJECT 31 SANT | LEY CRESCENT, KINGSV | VOOD | | |
|---|--------------------|-----------------------|----------------------|---------------|------|-----|
| G | SITE STORMWATER | OCT 2016 | S.N. | DESIGNED S.N. | O.C. | |
| | DRAINAGE DETAILS 2 | SCALE @ A1 AS SHOWN | | JOB No 161 | 086 | |
| 7 | ARCH. REF: | authorised Dr. Anthon | Marca B | DWG No. | | A A |

MUSIC Model Site Area Breakup



Roof: 342m²

Rooftop Terrace: 91m²

Road: 65m²

Paved: 119m²

Landscape: 10m²

Deep Soil: 61m²

LEGEND

REFER TO AS.3500 PART 3 TABLE 7.2 P1: 100ø UPVC PIPE AT 1.0% MIN. GRADE P2: 1500 UPVC PIPE AT 1.0% MIN. GRADE P3: 225¢ UPVC PIPE AT 0.5% MIN. GRADE P4 : 3000 UPVC PIPE AT 0.4% MIN. GRADE P5 : 375¢ UPVC PIPE AT 0.4% MIN. GRADE



<u>NOTES</u>

- 1. ALL LINES ARE TO BE MIN. 1000 UPVC @ MIN 1.0% GRADE UNLESS NOTED OTHERWISE.
- 2. IT IS THE CONTRACTORS RESPONSIBILITY TO LOCATE & LEVEL ALL EXISTING SERVICES PRIOR TO THE COMMENCEMENT OF ANY EARTHWORKS. ALL DESIGN LEVELS SHOWN ON PLAN SHALL BE VERIFIED ON SITE PRIOR TO THE COMMENCEMENT OF ANY WORK.
- 3. ALL PIPES TO HAVE MIN 200mm COVER IF LOCATED WITHIN
- 4. ALL PITS IN DRIVEWAYS BE HEAVY DUTY GRATES. DIRECT SURFACE FLOW TO ALL GRATED SURFACE INLET PITS.
- 5. ALL WORK DO BE DONE IN ACCORDANCE WITH AS/NZ 3500.3.2:1998 AND COUNCIL SPECIFICATIONS.
- 6. LOCATION OF DOWNPIPES & FLOOR WASTES ARE INDICATIVE ONLY. DOWNPIPE & FLOOR WASTE SIZE, LOCATION & QUANTITY TO BE DETERMINED BY BUILDER & IN ACCORDANCE WITH RELEVANT AUSTRALIAN STANDARDS.
- 7. THIS PLAN IS TO BE READ IN CONJUNCTION WITH THE ARCHITECTURAL, LANDSCAPE AND STRUCTURAL PLANS.
- 8. ANY DISCREPANCIES OR OMISSIONS SHALL BE REFERRED TO THE DESIGN ENGINEER FOR RESOLUTION.
- 9. ALL PITS OR GRATES IN TRAFFICABLE AREAS TO BE HEAVY DUTY.
- 10. ALL GUTTERS WILL BE FITTED WITH LEAF GUARDS AND SHOULD BE INSPECTED AND CLEANED TO ENSURE LEAF LITTER CANNOT ENTER

<u>SYMBOLS</u>

PIT SURFACE LEVEL INVERT LEVEL STORMWATER DRAINAGE PIPE DOWNPIPE TO RAINWATER TANK OVERFLOW PIPE FROM RAINWATER TANK **ø100 SUBSOIL PIPE** FLOOR WASTE 150X150 FLOOR WASTE 150¢ RAINWATER OUTLET 300Ø DOWN PIPE CLEAN OUT INSPECTION OPENING VERTICAL DROP VERTICAL RISER CONCRETE COVER JUNCTION PIT

GRATED INLET PIT

WIDE GRATED DRAIN

OVERLAND FLOW PATH

A FOR D.A. APPROVAL O.C. S.N. 03.11.16 **AMENDMENT** ENG DRAFT DATE **AMENDMENT** ENG DRAFT DATE No **AMENDMENT** ENG DRAFT DATE

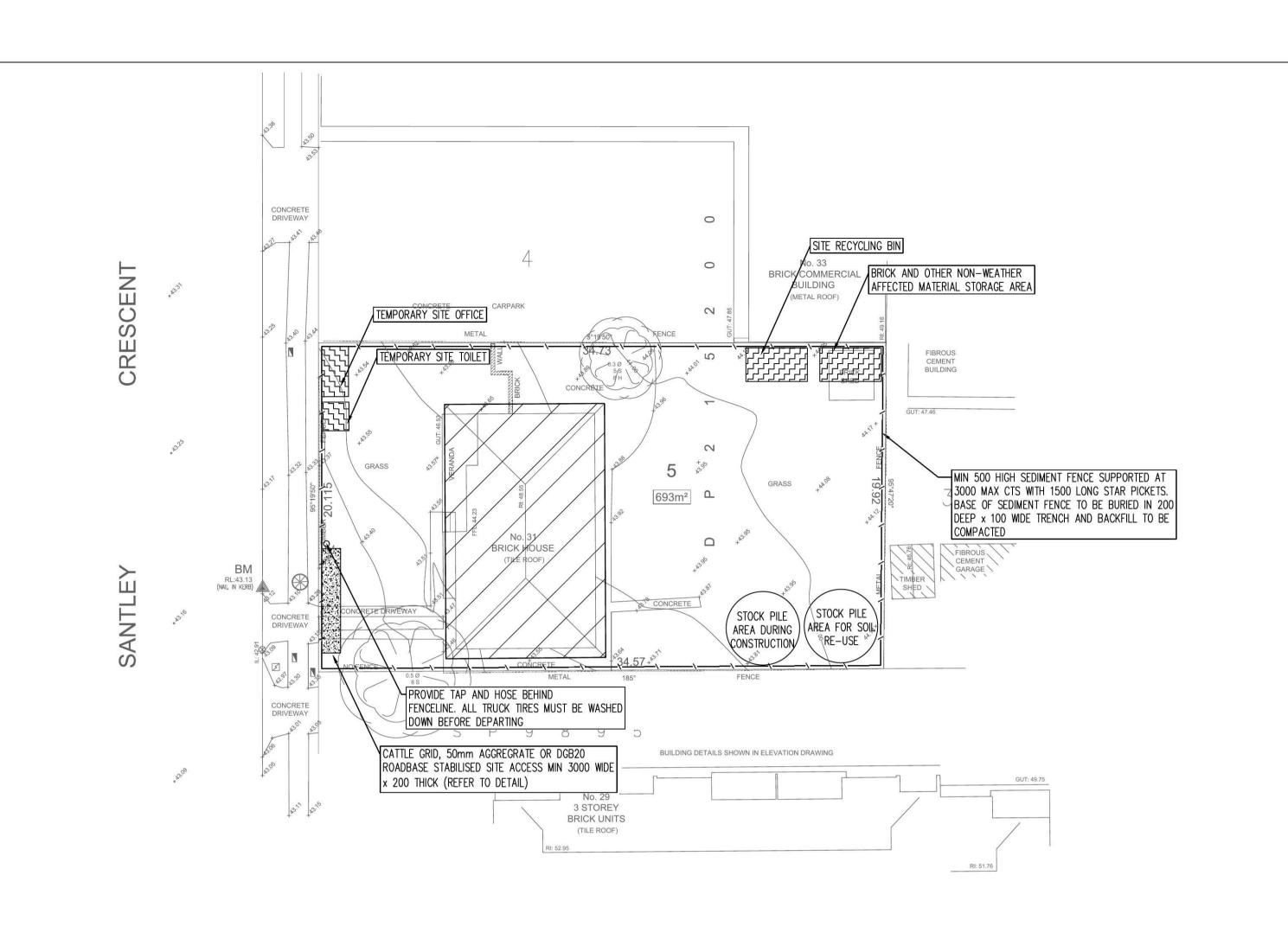
CDARCHITECTS LEVEL 2, 60 PARK STREET SYDNEY NSW 2000 P: 02 9267 2000

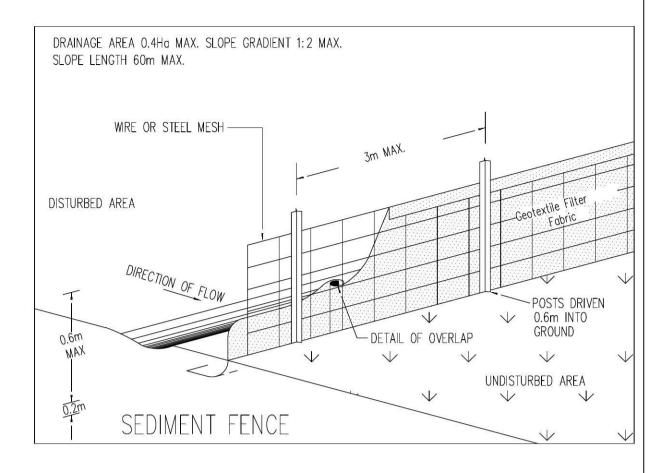
W: www.cdarchitects.com.au

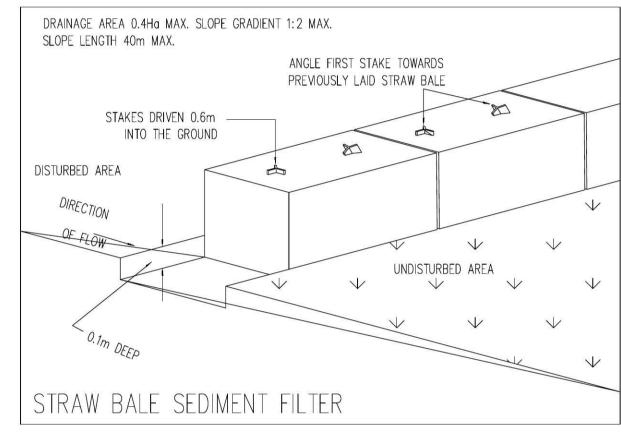
AUSTRALIAN AUSTRALIAN PTY LTD - A.C.N. 084 059 941 CONSULTING SHOP 2-141 CONCORD RD NORTH STRATHFIELD NSW 213 ENGINEERS. PH: (02) 9763 I500 FX: (02) 9763 I5I5 EMAIL: info@aceeng.com.au

PROPOSED RESIDENTIAL BUILDING 31 SANTLEY CRESCENT **KINGSWOOD**

| ROJECT 31 SANTL | EY CRESCENT, KINGSW | 00D | |
|--------------------------|-----------------------------------|--------------------------|--|
| OCT 2016 | S.N. | | O.C. |
| CALE @ A1 1:100 | | JOB No 16108 | 36 |
| uthorised Dr. Anthon' | eres a | | REV A |
| ATE O(CAI 1: | E CT 2016 LE @ A1 :100 HORISED | DRAWN S.N. LE @ A1 100 | DRAWN DESIGNED S.N. CT 2016 S.N. LE @ A1 100 DWG No DESIGNED TO |





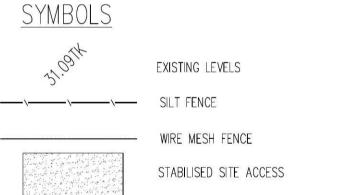




- 1. ALL EROSION & SEDIMENT CONTROL MEASURES ARE TO BE INSTALLED AND MAINTAINED IN ACCORDANCE WITH 'MANAGING URBAN STORMWATER, 4TH EDITION' BY LANDCOM.
- 2. ALL EROSION AND SILTATION CONTROL DEVICES ARE TO BE PLACED PRIOR TO THE COMMENCEMENT OF ANY CONSTRUCTION AND REMOVED REGULARLY DURING CONSTRUCTION
- 3. ALL TREES ARE TO BE PRESERVED UNLESS INDICATED OTHERWISE ON THE ARCHITECT'S OR LANDSCAPE ARCHITECT'S DRAWINGS. EXISTING GRASS COVER SHALL BE MAINTAINED EXCEPT IN AREAS CLEARED FOR BUILDINGS, PAVEMENTS ETC— CONTRACTOR TO MINIMISE DISTURBED AREAS.
- 4. INSTALL TEMPORARY SEDIMENT BARRIERS TO ALL INLET PITS LIKELY TO COLLECT SILT LADDEN WATER
- 5. NOT WITHSTANDING DETAILS SHOWN, IT IS THE CONTRACTORS SOLE RESPONSIBILITY TO ENSURE THAT ALL SITE ACTIVITIES COMPLY WITH THE REQUIREMENTS OF THE CLEAN WATERS ACT.
- 6. ALL DISTURBED AREAS AND STOCKPILES TO BE STABILISED WITHIN 14 DAYS. ALL STOCKPILES TO BE CLEAR FROM DRAINS, GUTERS AND FOOTPATHS.
- 7. TOPSOIL TO BE STRIPPED, STOCKPILED AND RE-SPREAD ON COMPLETION OF EARTHWORKS. NONE TO BE REMOVED.
- 8. NO DISTURBANCE OF SITE PERMITTED OTHER THAN
- 9. DRAINAGE IS TO BE CONNECTED TO STORMWATER SYSTEM AS SOON AS POSSIBLE.

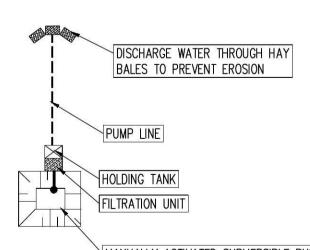
NON-COMPLIANCE MAY RESULT IN A \$1500 FINE

IMMEDIATE AREA OF THE WORKS.



————— Ø50 PUMP LINE

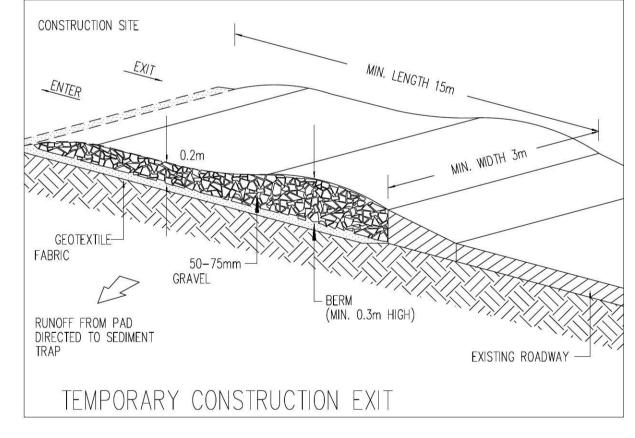
EXISTING STRUCTURE TO BE DEMOLISHED

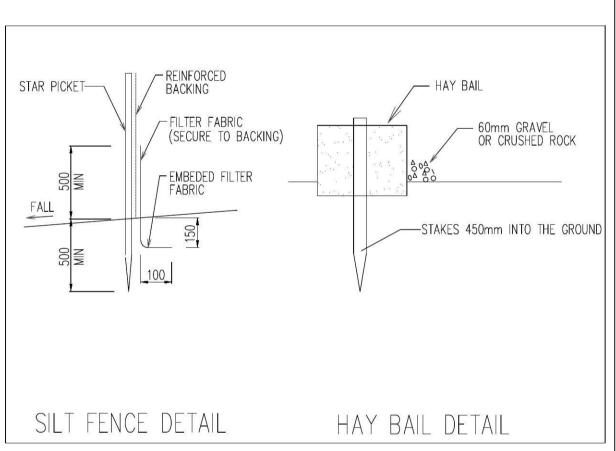


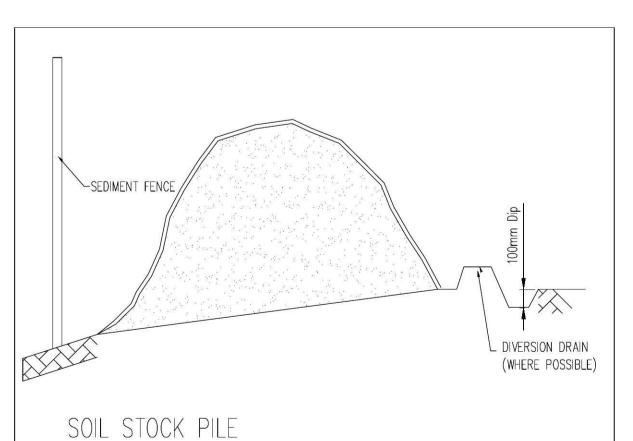
MANUALLY ACTIVATED SUBMERSIBLE PUMP TO BE PLACED ON PLINTH AT MIN 600mm FROM INVERT OF STILLING POND. CONTRACTOR IS TO ENSURE SEDIMENT HAS SETTLED PRIOR TO PUMP OPERATION. SEDIMENT MATERIAL IS TO BE CLEARED REGULARLY AND SHALL NOT AT ANY TIME REACH THE LEVEL OF THE PUMP INTAKE.

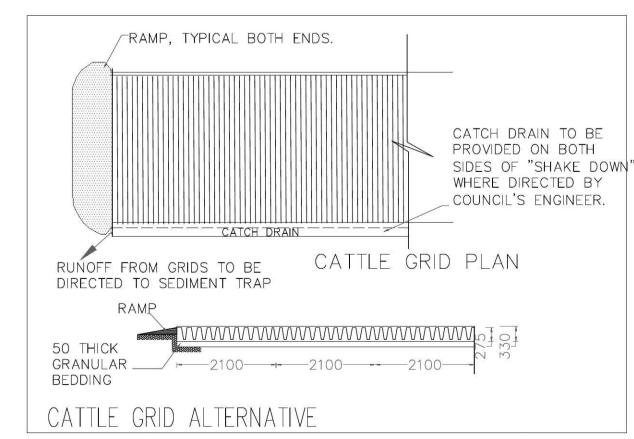
NOTES THIS DRAWING 1. ALL DOCUMENTS WILL BE SUBMITTED TO COUNCIL FOR APPROVAL.

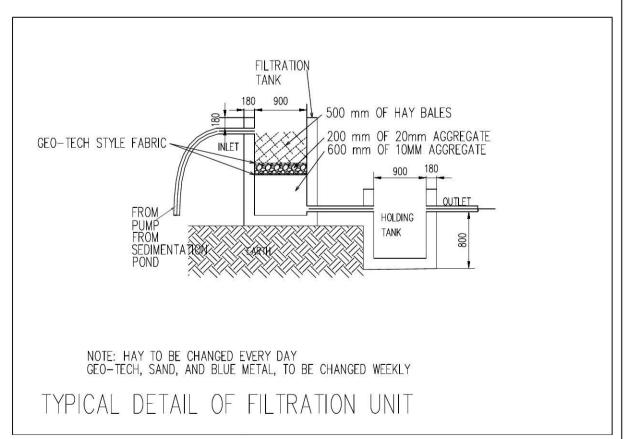
- 2. ALL SEDIMENT CONTROL MEASURES ARE TO BE IN PLACE.
- 3. INSTALLATION OF SILT FENCING, SEDIMENTATION BARRIERS AROUND DRAINS.
- 4. FENCING IS TO BE 1.8m(min) HEIGHT, PLACED AROUND THE SITE UNTIL THE WORK IS COMPLETE.
- 5. THE SITE GATES WILL BE LOCATED AT SANTLEY CRESCENT.
- 6. THE HARDSTAND AREAS OR CATTLE GRIDS WILL BE PLACED AT THE SITE ENTRANCES AND EXITS. TO REMOVE THE BULK OF DIRT AND MUD THAT MAY ACCUMULATE ON TRUCK TYRES.
- CONTRACTOR WILL CONDUCT REGULAR STREET SWEEPS ALONG THE ACCESS ROUTE TO ENSURE THE ROADS ADJACENT TO THE SITE ENTRANCES ARE KEPT CLEAN OF ANY DIRT AND DEBRIS.
- REGULAR ENVIRONMENTAL INSPECTIONS WILL BE CARRIED OUT BY CONTRACTOR'S PERSONNEL TO ENSURE COMPLIANCE WITH THIS PLAN.











| A1 1 2 3 4 | 5 | 6 | 7 | 8 | 9 10 | | | | | | | | L | 301E 3100K I |
|-------------------|------|-------|----------|----|-----------|-----|-------|------|----|-----------|-----|-------|------|---|
| | | | | | | | | | | | | | | ARCHITECT |
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| | | | | | | | | | | | | | | CDA RCHITECTS |
| | | | | | | | | | | | | | | LEVEL 2, 60 PARK STREET |
| FOR D.A. APPROVAL | 0.C. | S.N. | 03.11.16 | | | | | | | | | | | SYDNEY NSW 2000 |
| AMENDMENT | ENG | DRAFT | DATE | No | AMENDMENT | ENG | DRAFT | DATE | No | AMENDMENT | ENG | DRAFT | DATE | P: 02 9267 2000 W: www.cdarchitects.com.au |

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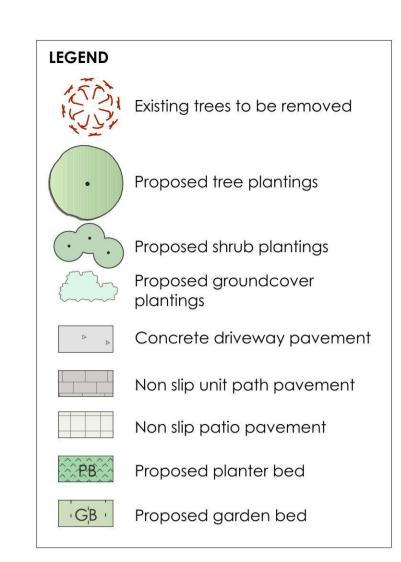
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SHOP 2-14I CONCORD RD NORTH STRATHFIELD NSW 2I3
PH: (02) 9763 I500 FX: (02) 9763 I515
EMAIL: info@aceeng.com.au

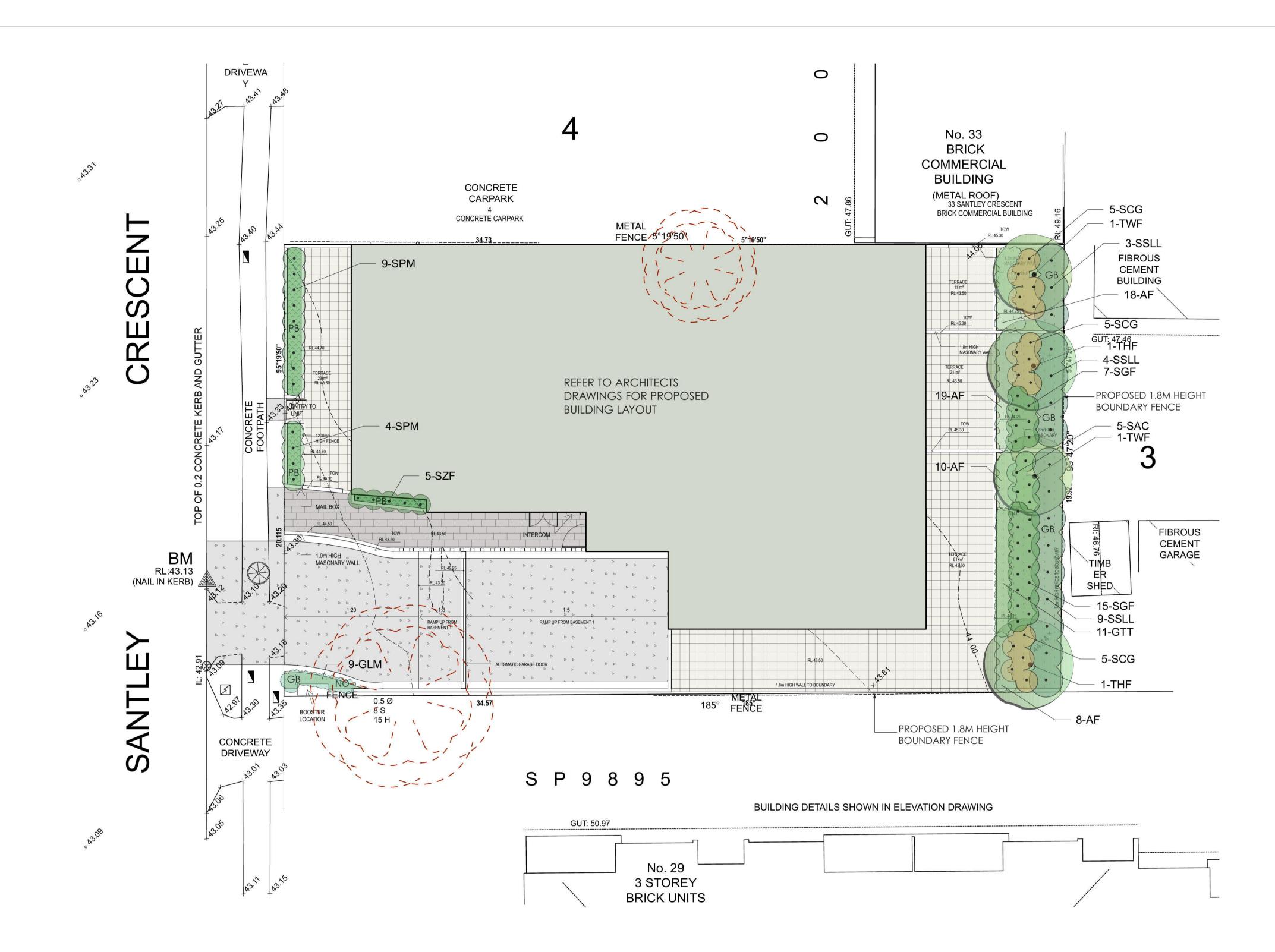
PROPOSED RESIDENTIAL BUILDING 31 SANTLEY CRESCENT KINGSWOOD

| SHEET SUBJECT | PROJECT 31 SANTLEY CRESCENT, KINGSWOOD | | | | | | | | |
|----------------------|--|-----------|---------------|------|-----|--|--|--|--|
| EROSION AND SEDIMENT | OCT 2016 | S.N. | DESIGNED S.N. | O.C. | | | | | |
| | SCALE @ A1 1:200 | | 161086 | | | | | | |
| | AUTHORISED | | DWG No | | REV | | | | |
| ARCH. REF: | Dr. Anthor | ıy Hasham | [| 010 | | | | | |

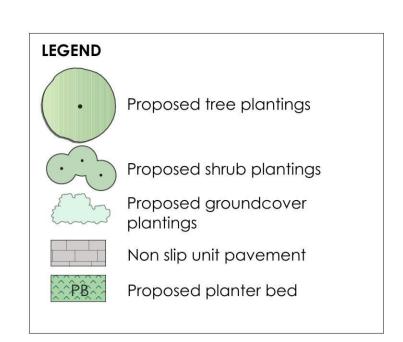


Notes:

- Refer Achitects drawings for pavement,
- walls, fence, steps, and levels
- Refer Engineers drawings for hydraulic
- Refer GD.03 for Plant Schedule, landscape
- details and specification

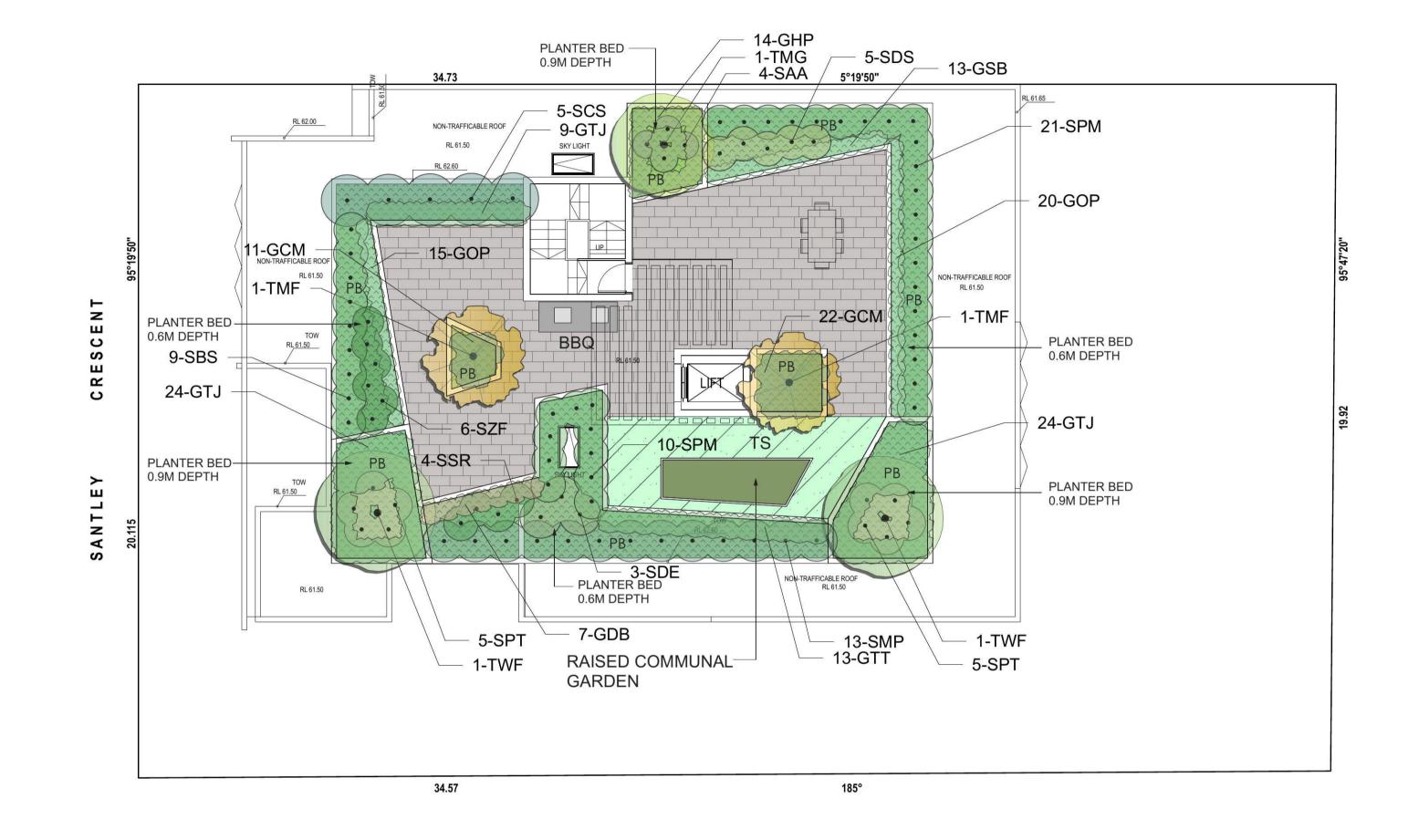


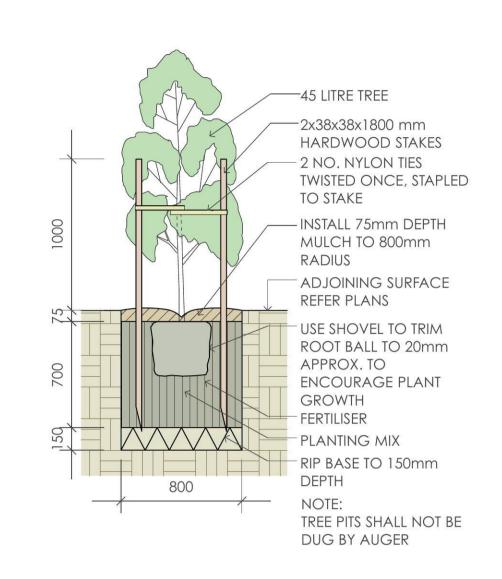
| GENERAL NOTES: 1. Do not scale of drawings. Follow written | | | | Ι | DESIGNED: | PREPARED FOR: | PREPARED BY: | | PROJECT: | DRAWING TITLE: | DATE: NOVEMBER 2016 |
|--|-------|--------------|-------|----------|-----------|-----------------|---------------------------------------|--|-----------------------------------|-------------------------------|-----------------------|
| dimensions. If in doubt obtain written advice from the Superintendent. 2. Verify all dimensions on site. 3. Refer to legend for all symbol and | | | | | GD | NIFITSA PTY LTD | | Greenland Design Pty Ltd ABN 73 139 152 855 Registered Landsc. Architect: Bao Ly | PROPOSED RESIDENTIAL FLAT | Landscape Plan - Ground Floor | SCALE: 1:200 ISSUE: A |
| code keys. 4. Read in conjunction with the specifications 5. Read in conjunction with all associated | A | FOR APPROVAL | CL | 01.11.16 | ORAWN: | | GREENLAND DESIGN Landscape Architects | PO Box 3228 Wetherill Park NSW 2164 T: 0403 164 198 E: gd@greenlanddesign.com.au | PROJECT ADDRESS: | | DRAWING NO: |
| drawings | ISSUE | AMENDMENT | DRAWN | DATE | CL | | | | NO. 31 SANTLEY CRESCENT KINGSWOOD | 0 1 2 5m | 1504.GD.01 |



Notes:

- Refer Achitects drawings for pavement,
- walls, fence, steps, and levels
- Refer Engineers drawings for hydraulic
- Refer GD.03 for Plant Schedule, landscape details and specification

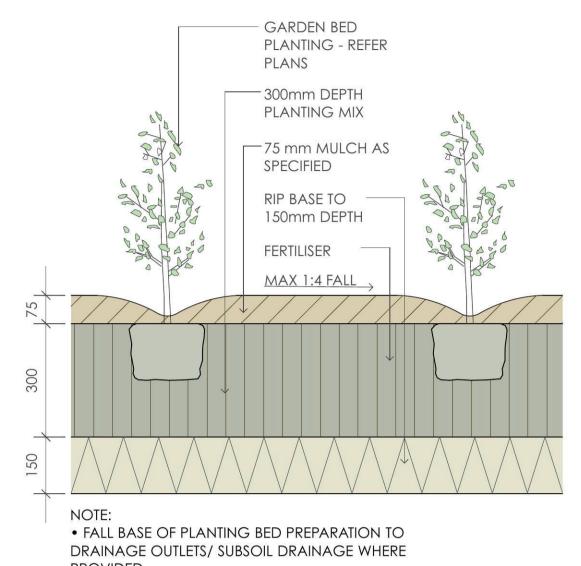


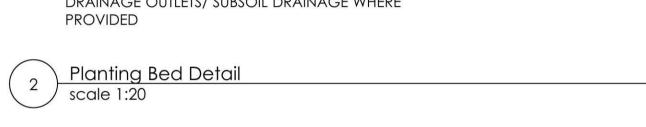


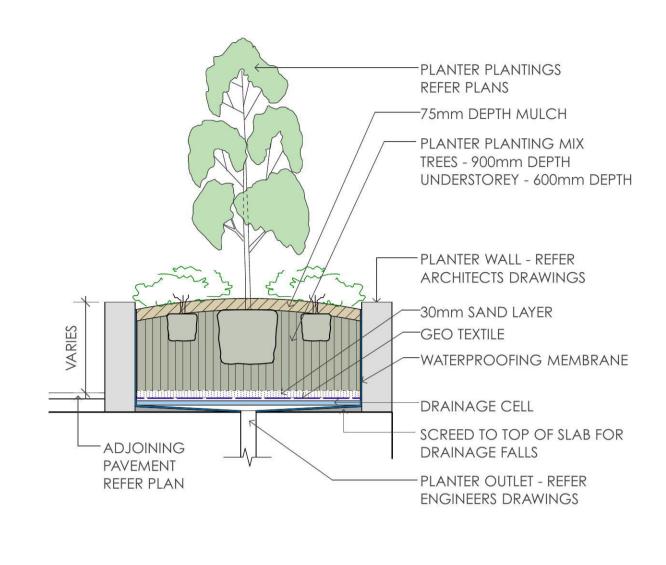














SPECIFICATION NOTES PLANTING MATERIALS

Planting Mix: Planting mix for tree pit backfill shall be "Organic Garden Mix" consisting of 50% Black Soil

20% Coarse Sand

30% Organic Material

as available from Australian Native Landscapes, Phone: [02] 9450 1444, or approved equivalent. Samples shall be provided to the Superintendent prior to ordering or delivery to site. Any material delivered to site, that is rejected by the Superintendent, shall be removed by the contractor at his own expense. Minimum depths of mix to all planting bed areas is as specified on details.

Planter Mix: Planter mix shall be Peat and Planter Mix as supplied by Australian Native Landscape Pty Ltd (ph (02) 9450 1444 or approved equivalent.

Planter Drainage Cell: Planter drainage cell shall be VersiCell as supplied by Elmich Australia Pty Ltd (ph (02) 9648 2073 or approved equivalent.

Mulch: Mulch to garden bed:

Mulch shall mean hardwood mulch (25mm grade), free from material derived from Privet, Willow, Poplar, Coral trees, or other noxious weeds. Any mulch exceeding the 25mm grade shall be rejected / removed from the site. Graded hardwood mulch to be supplied by Australian Native Landscapes Pty Ltd Phone (02) 9450 1444, or

approved equivalent. Mulch to planter beds:

Mulch to planter beds shall be Pine bark mini nuggets mulch (25mm grade), free from fines and as available from Australian Native Landscapes Pty Ltd Phone (02)

- 9450 1444, or approved equivalent. Spread mulch so that after settling, it is:
- smooth and evenly graded between design surface levels; flush with adjacent finished levels;
- of the required depths (75mm); and
- with the stem (not closer than 50mm in the case of gravel mulches). Place after the preparation of the planting bed, planting and all other work. Plant Material:

sloped towards the base of plant stems in plantation beds, but not in contact

All plant material must be true to the species. No substitutes will be allowed. All plants shall be free of fungus and insect damage. All plants shall be healthy, well shaped, not soft or force grown and not root bound.

Plants are available from **Andreasens Green** wholesale nursery, contact Darren (02) 8777 4713, email darren@andreasensgreen.com.au or approved equivalent.

All new turfed areas are to be selected weed free Soft Leaf Buffalo. Turf shall be laid neatly butted with staggered joins, flush with adjacent surfaces and have even running falls to all drainage points.

All new turfed area shall have a minimum 150mm depth of weed free top soil, placed and levelled prior to turfing.

PREPARATION AND HARDWORKS

Excavating for Spot Planting

To planting areas, excavate a hole for each plant large enough to provide not less than twice the depth and twice the diameter than the root ball of species to be planted.

Use durable hardwood, straight, free from knots or twists, pointed at one end. Drive stakes into the ground a minimum one third of their length, avoiding damage to the

• 45 Litre trees in 2 x 38x38x1800mm Hardwood Stake with double Nylon tie TIES: Provide a 50mm wide Nylon webbing tie per stake, fixed securely to the stakes, one tie at half the height of the main stem and the other as necessary to stabilise the

Decorative Pebble

MATERIAL: Decorative pebble shall be Western White pebble, gravel to be of uniform size or graded material in the size 30 - 40mm grade to nominal 75mm thickness as available from Australian Native Landscapes. Ph: (02) 9450 1444.

Porous Pavement MATERIAL: Porous pavement shall be 115x230x80mm porous paving installed to manufacturers recommendations and specifications as available from Boral Pty Ltd (Ph 1300 134 002) or approved equivalent. Sample to be provided for approval by

Superintendent. **Porous Pavement**

MATERIAL: Porous pavement shall be Stoneset Pour On Gravel binder pavement colour Gold as available from Pour On Pty Ltd (Phone 1300 392 155) or approved equivalent. Install to manufacturer's recommendations. Sample to be provided for approval by Superintendent.

Concrete Edge

MATERIALS: Concrete to be off white colour.

INSTALLATION: Supply and install 150 x 100mm (width) reinforced flush concrete kerb to locations as approved on site by the Superintendent. Provide flexible joints at maximum 3 metre intervals in colour to match concrete. Lightly expose aggregate through rinsing / sponging. Tool finish exposed edges with 10mm pencil round to prevent chipping.

Timber Edge

MATERIAL: Timber edging shall consist of:

Edging: 100 x 50mm hardwood Pegs: $50 \times 50 \times 400$ mm hardwood. Fastenings: to be 75x3.75mm diam. galvanised nails

INSTALLATION: Setout alignment of timber edges on site for approval of Superintendent. Excavate to approved alignment and place edge band within trench to confirm peg locations. Install pegs and affix timber edge in accordance with details. All timber edging to finish flush with adjoining turf.

MAINTENANCE / PLANT ESTABLISHMENT

Maintenance shall apply to all hard and soft landscape materials installed prior to the "handover" and acceptance by Principles Representative and the Site Superintendent. The maintenance period shall convenience at the granting of practical completion and shall extend for 26 weeks.

Maintenance shall consist of the following works:

- Follow a daily watering programme to be approved by Superintendent. Water all plants individually, twice per week or when necessary to ensure constant plant growth. Water all turf and native grassed areas, twice per week.

- Apply appropriate weed control sprays and hand weed as required to maintain planting areas, native grassing bed areas, turfed areas, paved areas, and tree pits in turf free of weed or rogue grass growth.

- Regularly tidy and top up mulch and trim edges to prevent spill over onto paved /

grassed areas.

- Spray to control pests and diseases.

- Replace plants, which fail with plants of a similar size and quality as originally specified to approval of Superintendent. Costs of replacement shall be the responsibility of the Contractor. Replacement planting will be undertaken within 2 weeks of identification of dead material or instruction be the Superintendent.

- Report any incidence of plants stolen or destroyed by vandalism.

- Adjust stakes and ties to plants as necessary. Ensure that strangulation of plants

does not occur. - Prune and shape plants as directed or where necessary.

- Make good any defects or faults arising out of defective workmanship or materials.

- Fertilise lawn areas to maintain healthy growth. - Make good any erosion or soil subsidence, which may occur including soft areas in

pathways.

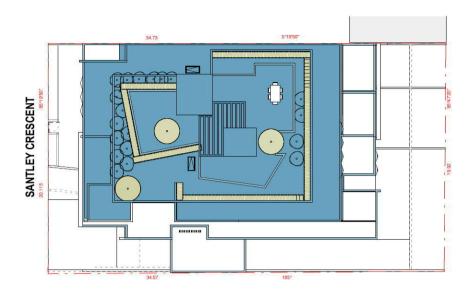
- Mow lawn to maintain neat healthy growth. - A final inspection shall be made by the Superintendent before handover. Any items requiring rectification shall be repaired before the works are finally approved, and retention moneys released.

- All finished levels are to be verified by Contractor on site.

- All landscape works be in strict accordance with Council's landscape code and

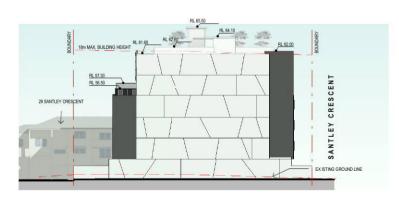
- This plan to be used in conjunction with all other submitted architectural, hydraulics and engineering drawing where applicable.

| GENERAL NOTES: 1. Do not scale of drawings. Follow written | | DESIGNED: | PREPARED FOR: | PREPARED BY: | PROJECT: | DRAWING TITLE: | DATE: NOVEMBER 2016 |
|--|-----------------|----------------|-----------------|--|-----------------------------------|-----------------------------------|------------------------------------|
| dimensions. If in doubt obtain written advice from the Superintendent. 2. Verify all dimensions on site. 3. Refer to legend for all symbol and | | GD | NIFITSA PTY LTD | Greenland Design Pty Ltd ABN 73 139 152 855 Registered Landsc. Architect: Bao Ly PO Box 3228 Wetherill Park NSW 2164 | PROPOSED RESIDENTIAL FLAT | Landscape Details & Specification | SCALE: varies ISSUE: FULL SIZE: A3 |
| code keys. 4. Read in conjunction with the specifications 5. Read in conjunction with all associated | A FOR APPROVAL | CL 01.11.16 CL | | GREENLAND DESIGN Landscape Architects E: gd@greenlanddesign.com.au | PROJECT ADDRESS: | | DRAWING NO: |
| drawings | ISSUE AMENDMENT | DRAWN DATE | | | NO. 31 SANTLEY CRESCENT KINGSWOOD | | 1504.GD.03 |



SITE PLAN

1:300



NOTIFICATION-WEST ELEVATION

1:500

Project Architect

LEVEL 2, 60 PARK STREET SYDNEY NSW 2000 P: 02 9267 2000 W: www.cdarchitects.com.au

PROPOSED RESIDENTIAL FLAT BUILDING 31 SANTLEY CRESCENT KINGSWOOD

29 SANTLEY CRESCENT

NOTIFICATION-SOUTH ELEVATION

1:500



NOTIFICATION-NORTH ELEVATION

1:500

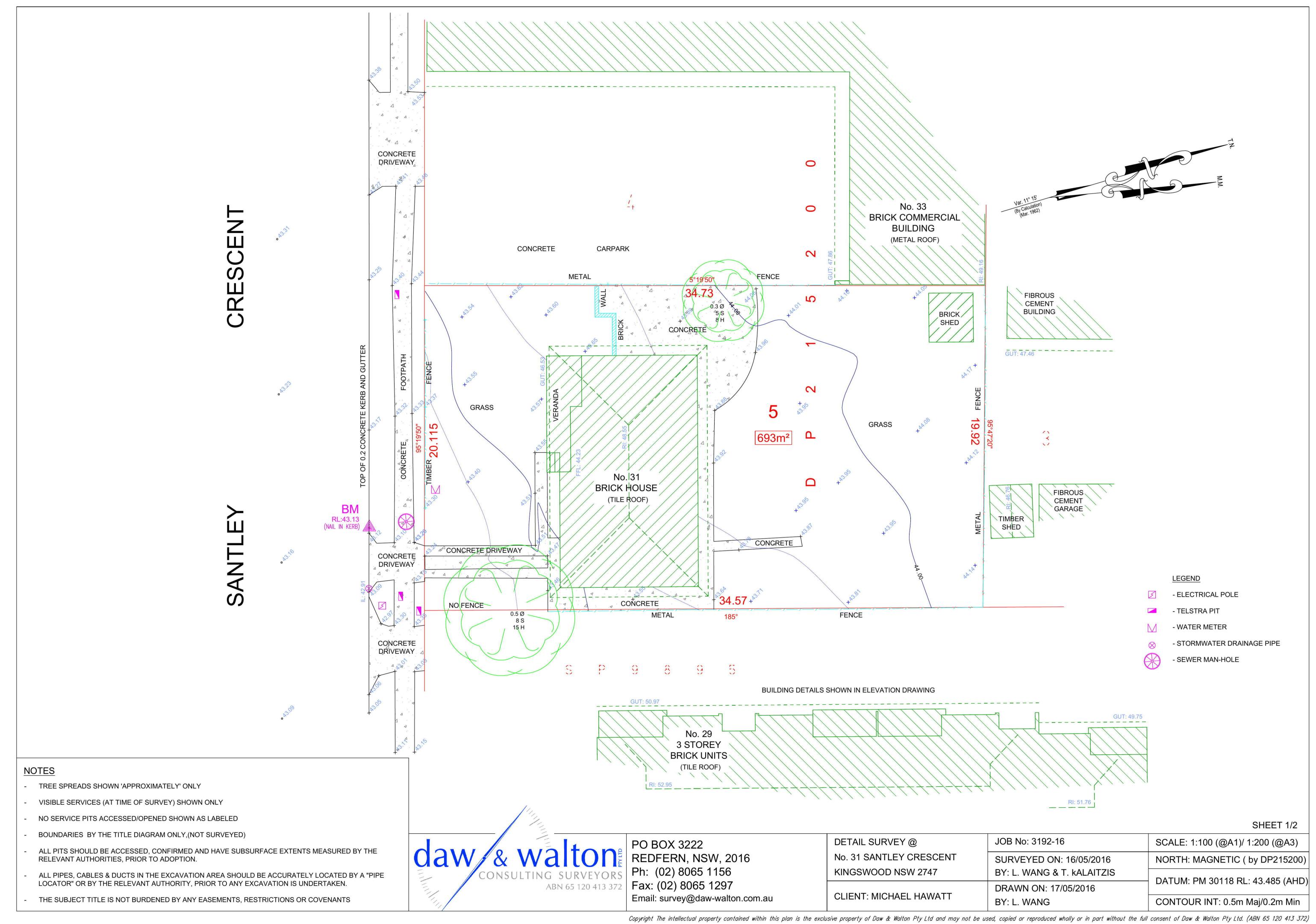


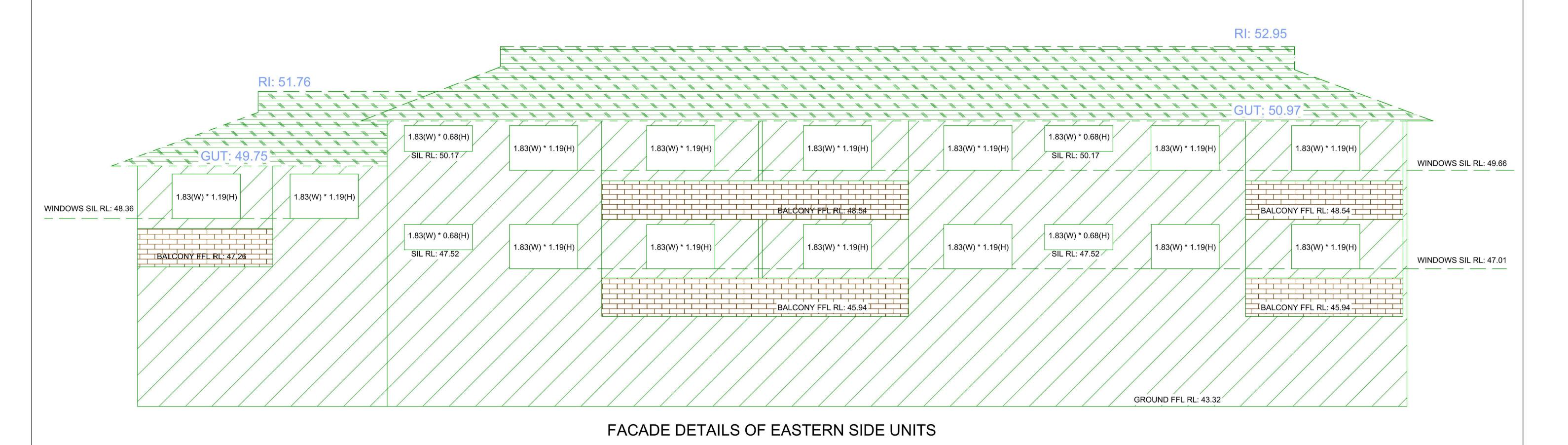
NOTIFICATION-EAST ELEVATION

1:500

Drawing title NOTIFICATION PLANS

Document Set ID: 7442079 Version: 1, Version Date: 05/12/2016





NOTES

- TREE SPREADS SHOWN 'APPROXIMATELY' ONLY
- VISIBLE SERVICES (AT TIME OF SURVEY) SHOWN ONLY
- NO SERVICE PITS ACCESSED/OPENED SHOWN AS LABELED
- BOUNDARIES BY THE TITLE DIAGRAM ONLY, (NOT SURVEYED)
- ALL PITS SHOULD BE ACCESSED, CONFIRMED AND HAVE SUBSURFACE EXTENTS MEASURED BY THE RELEVANT AUTHORITIES, PRIOR TO ADOPTION.
- ALL PIPES, CABLES & DUCTS IN THE EXCAVATION AREA SHOULD BE ACCURATELY LOCATED BY A "PIPE LOCATOR" OR BY THE RELEVANT AUTHORITY, PRIOR TO ANY EXCAVATION IS UNDERTAKEN.
- THE SUBJECT TITLE IS NOT BURDENED BY ANY EASEMENTS, RESTRICTIONS OR COVENANTS



PO BOX 3222 REDFERN, NSW, 2016 ABN 65 120 413 372 Fax: (02) 8065 1297 Email: survey@daw-walton.com.au

SHEET 2/2 JOB No: 3192-16 DETAIL SURVEY @ SCALE: 1:50 (@A1)/ 1:100 (@A3) No. 31 SANTLEY CRESCENT SURVEYED ON: 16/05/2016 NORTH: MAGNETIC (by DP215200) KINGSWOOD NSW 2747 BY: L. WANG & T. kALAITZIS DATUM: PM 30118 RL: 43.485 (AHD) DRAWN ON: 17/05/2016 CLIENT: MICHAEL HAWATT CONTOUR INT: N/A BY: L. WANG