

KEY PLAN CAR PARK

REVISED DEVELOPMENT APPLICATION SUBMISSION	LB	15.07.2020	B
DEVELOPMENT APPLICATION SUBMISSION	LB	31.03.2020	A
subject	p.a	date	issue

architect  
**ALLEANZA**  
ARCHITECTURE

Nominated Architect: Charles Glanville, NSW Registration No. 3130

project  
Westmead Catholic Community

address  
Darcy Road, Westmead

client  
Catholic Education Diocese  
of Parramatta

DEVELOPMENT APPLICATION

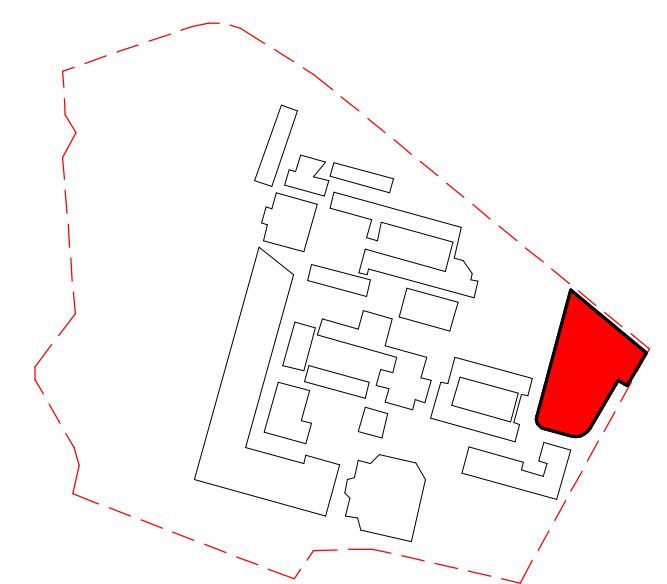
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LOCATION PLAN  
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19122	CP-DA-000	B
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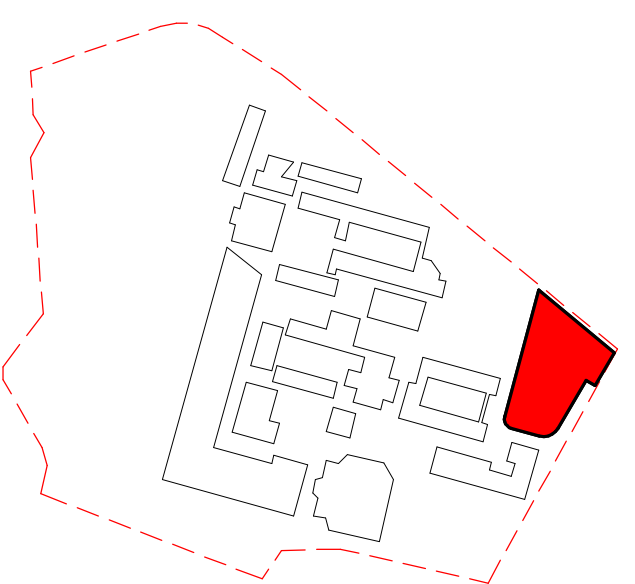
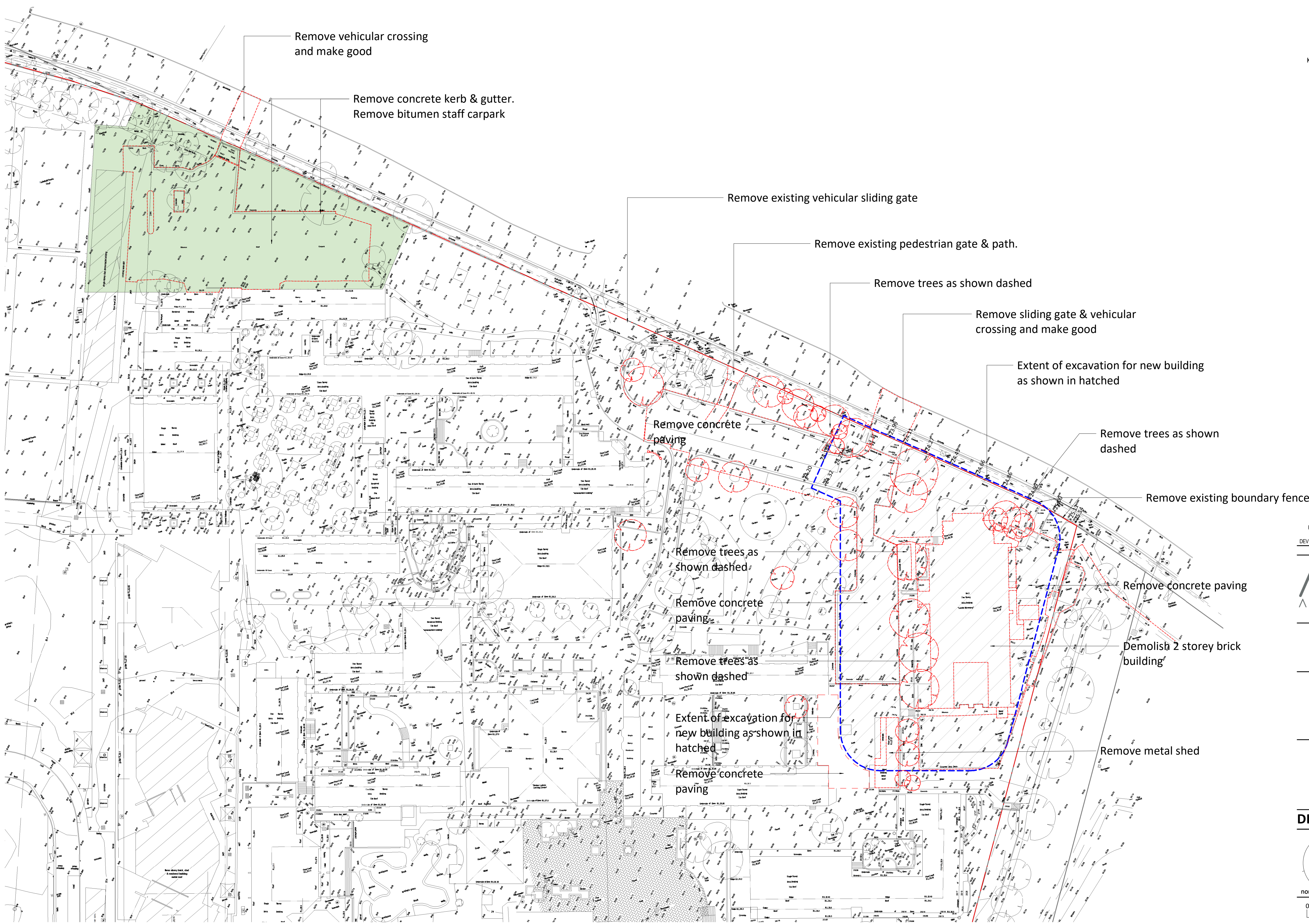
DEVELOPMENT APPLICATION

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SITE PLAN  
sheet





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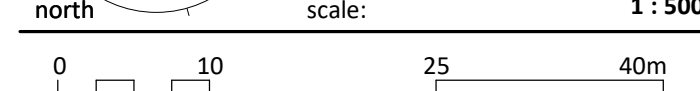
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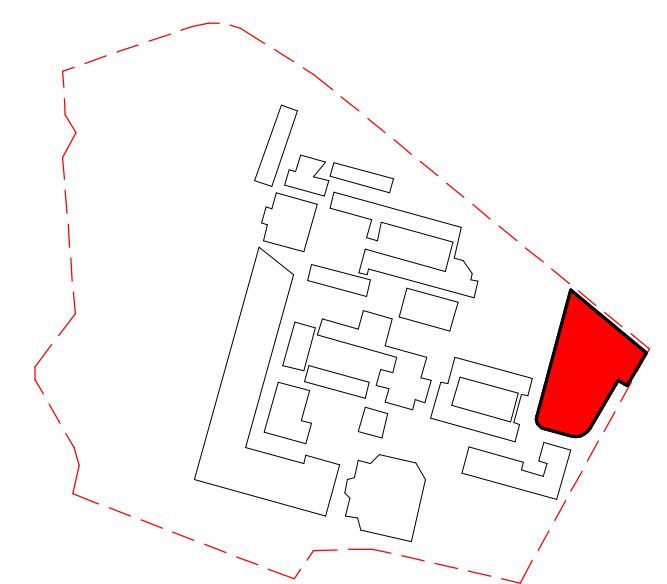
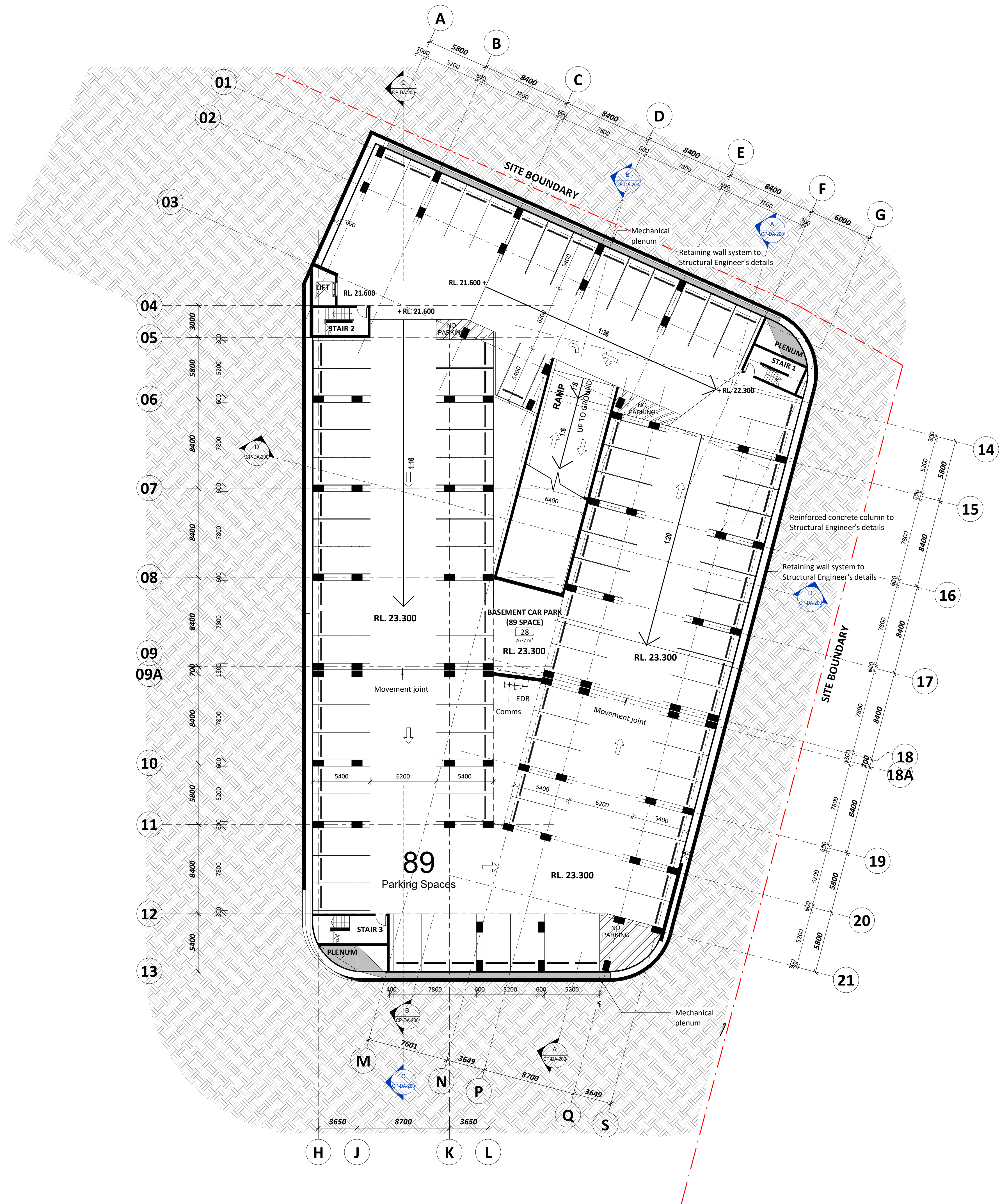
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**DEMOLITION PLAN**  
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19122	CP-DA-003	B
project_no.	sheet_no.	issue





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### DEVELOPMENT APPLICATION

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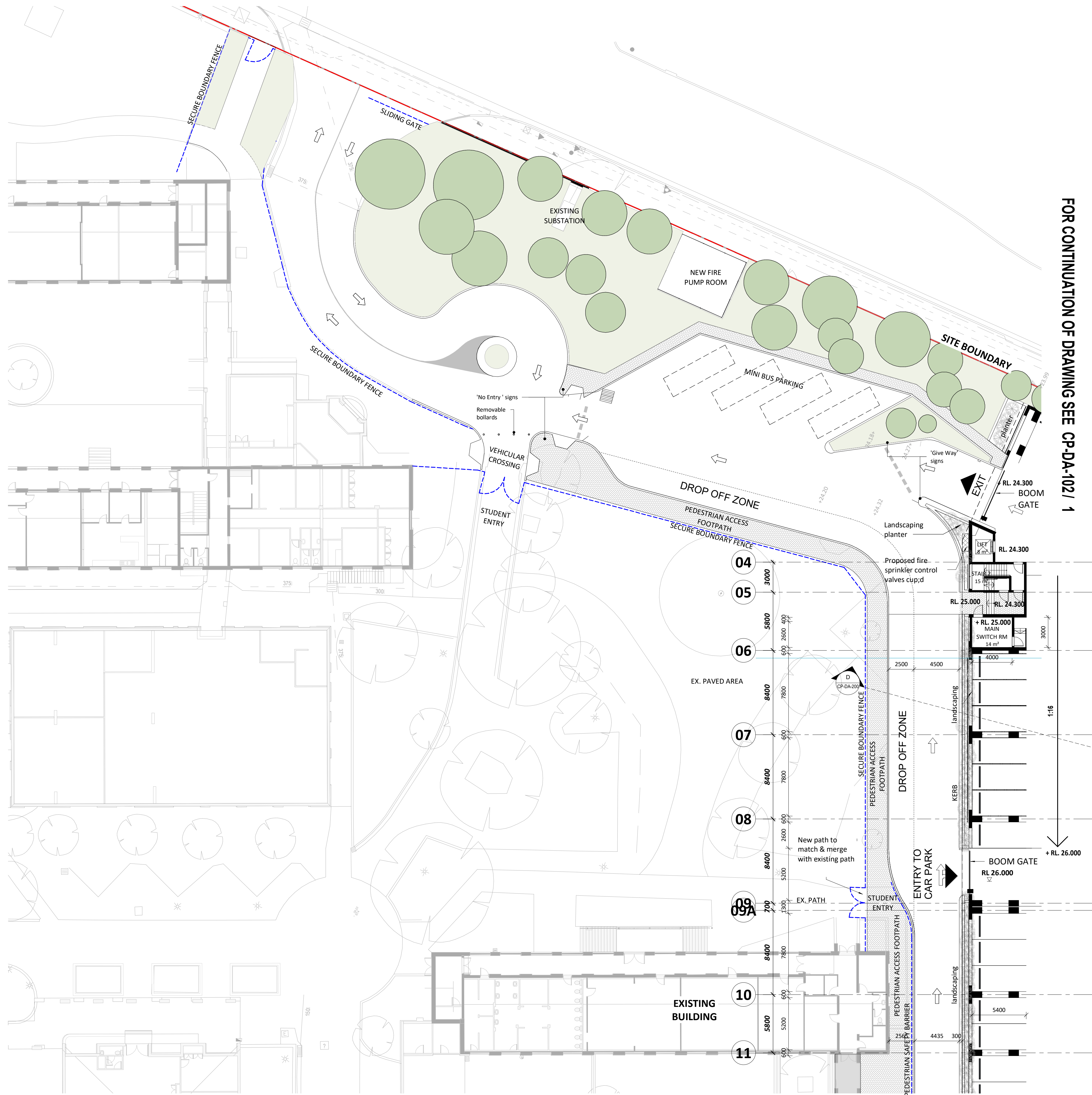


### PROPOSED BASEMENT PLAN

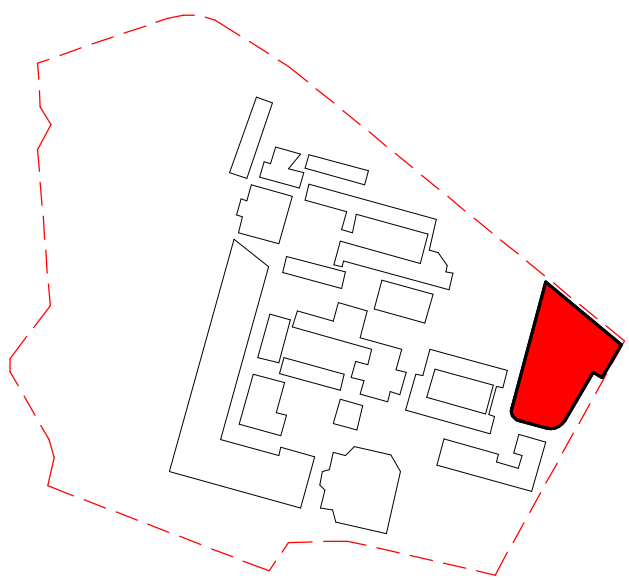
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project_no.	sheet_no.	issue





FOR CONTINUATION OF DRAWING SEE CP-DA-102/ 1



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DEVELOPMENT APPLICATION

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PROPOSED GROUND FLOOR

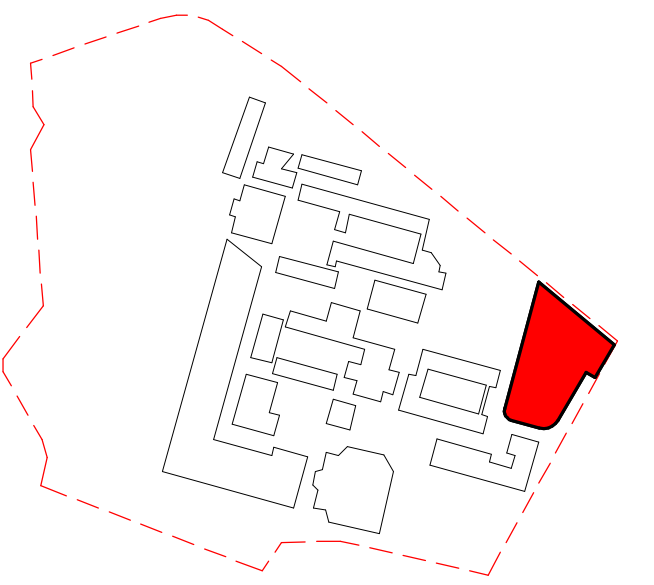
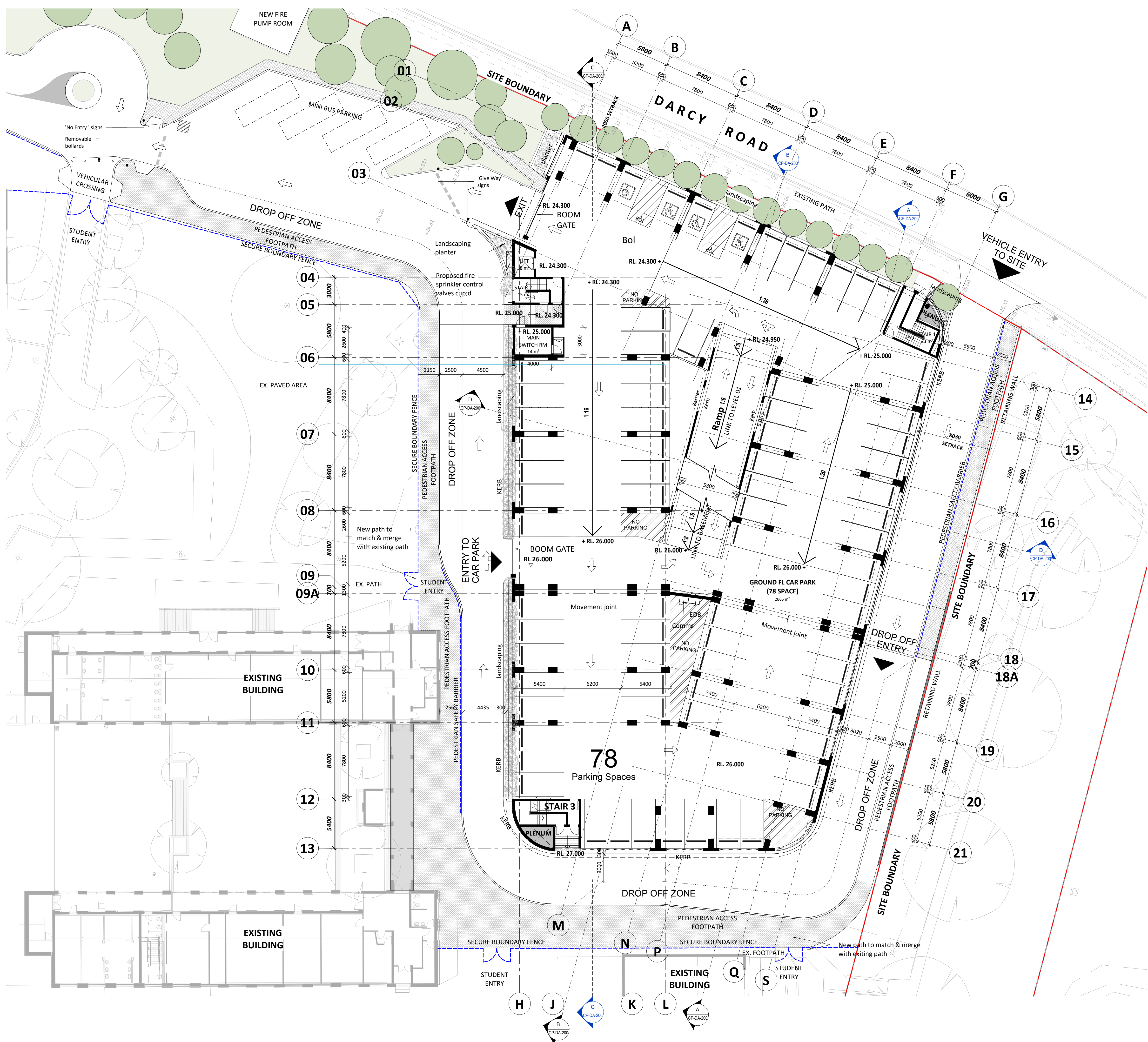
PLAN - PART 1

sheet

19122	CP-DA-101	B
project_no.	sheet_no.	issue



FOR CONTINUATION OF DRAWING SEE CP-DA-101 / 1



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#### DEVELOPMENT APPLICATION

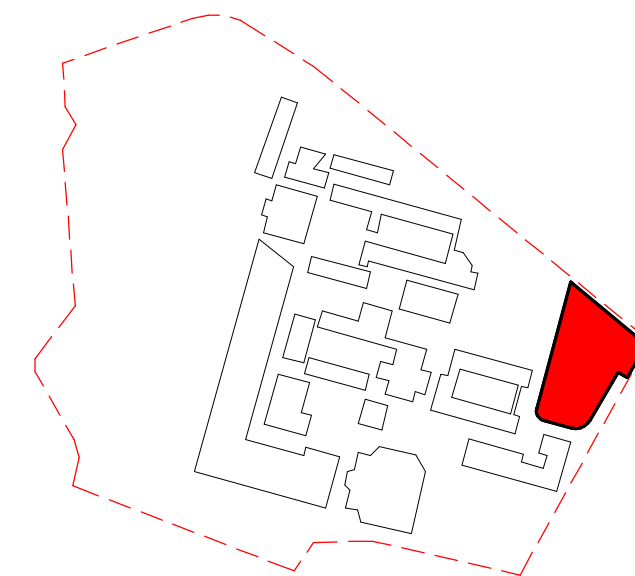
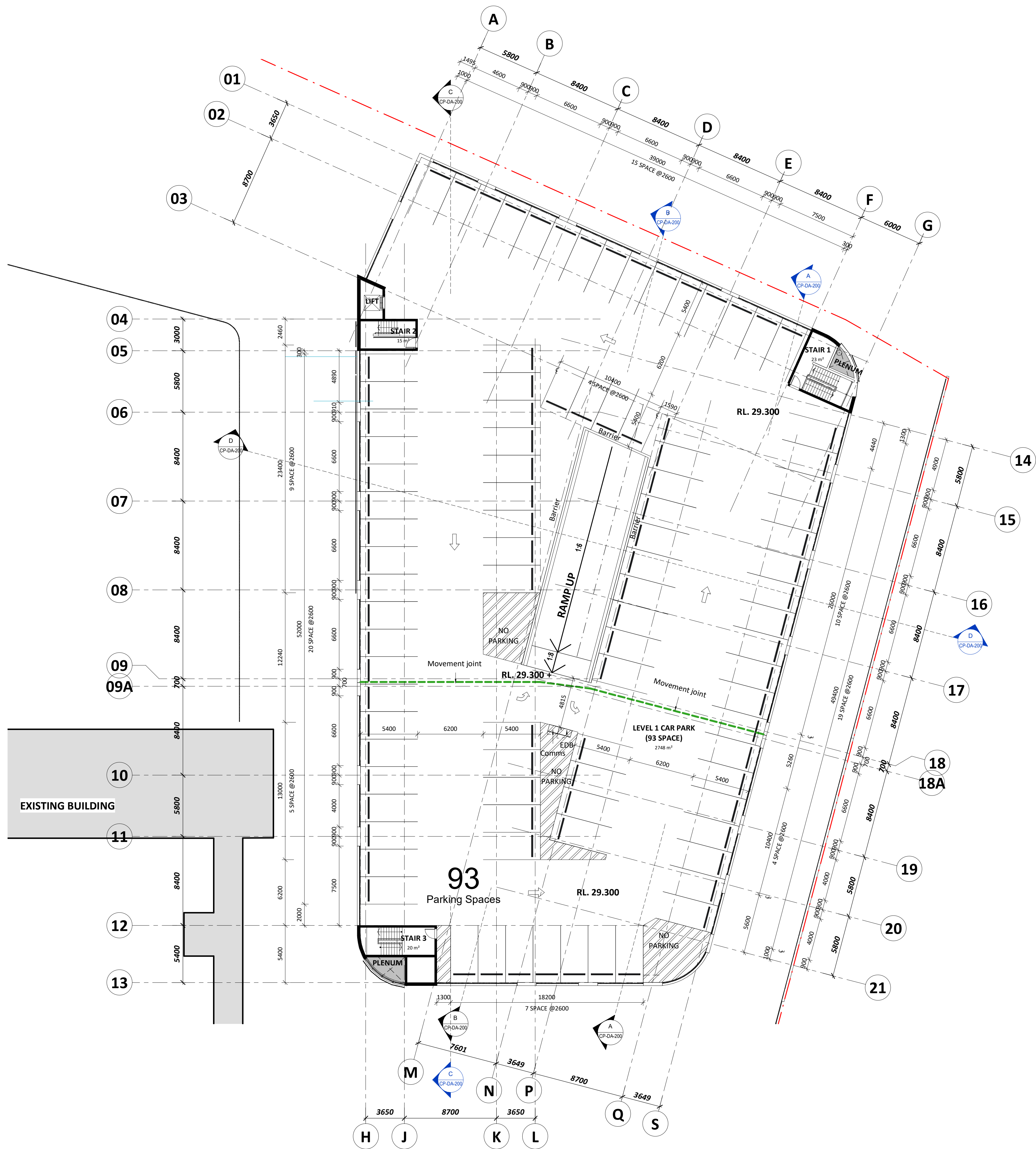
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PROPOSED GROUND FLOOR  
PLAN - PART 2  
sheet

19122 CP-DA-102 B  
project\_no. sheet\_no. issue





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#### DEVELOPMENT APPLICATION

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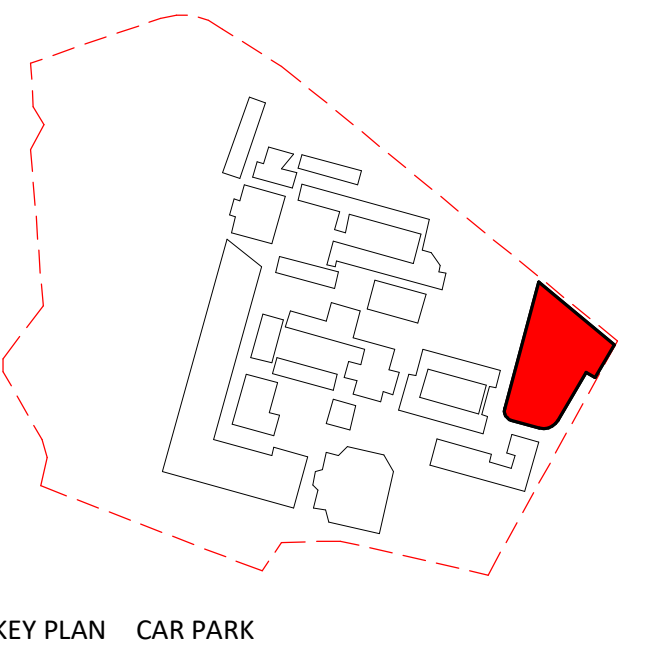
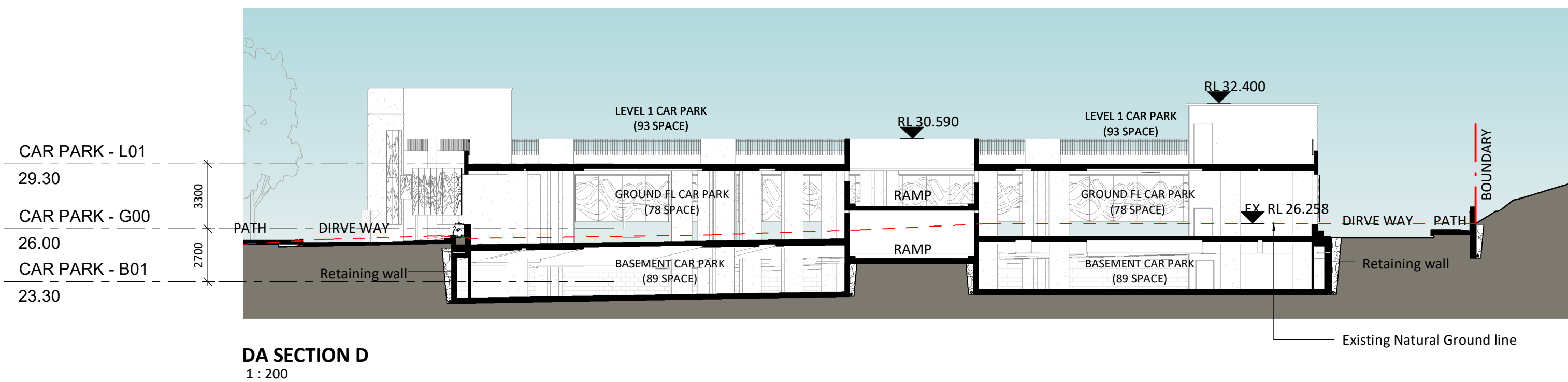
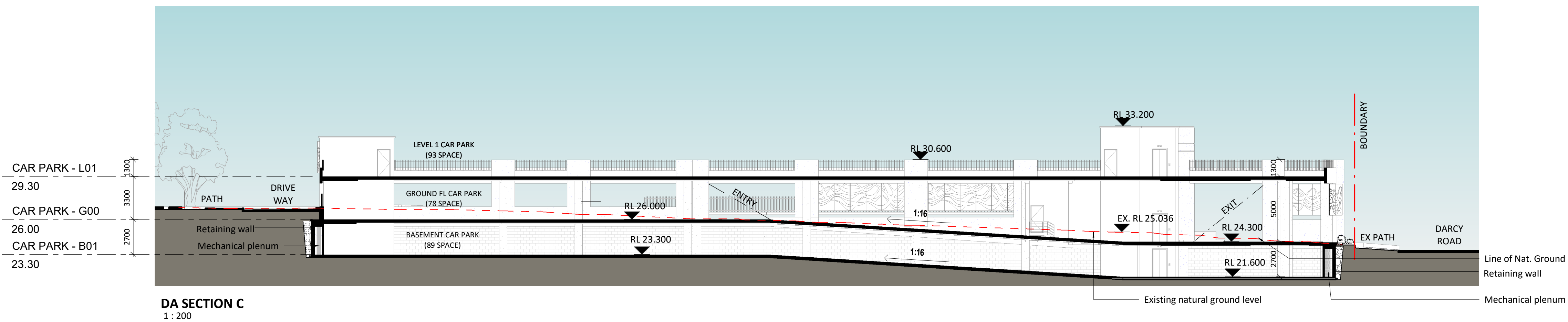
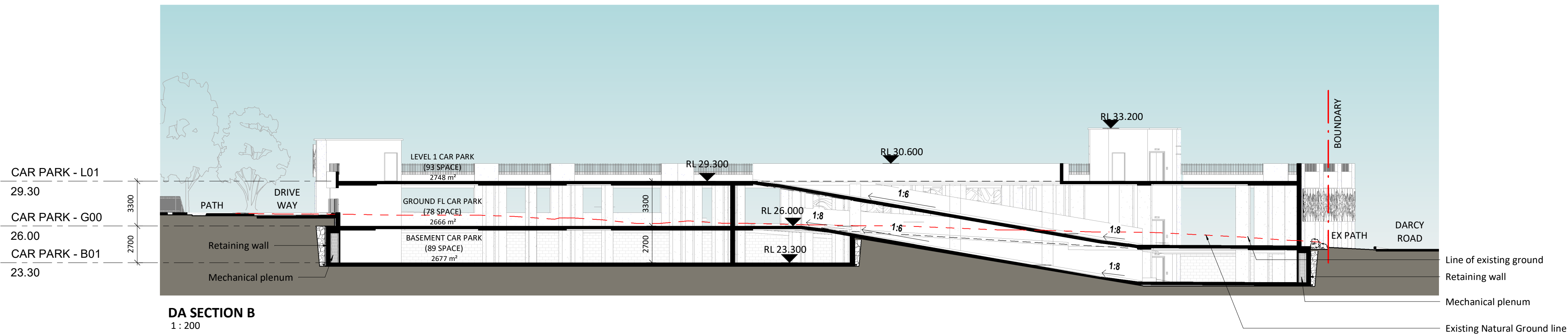
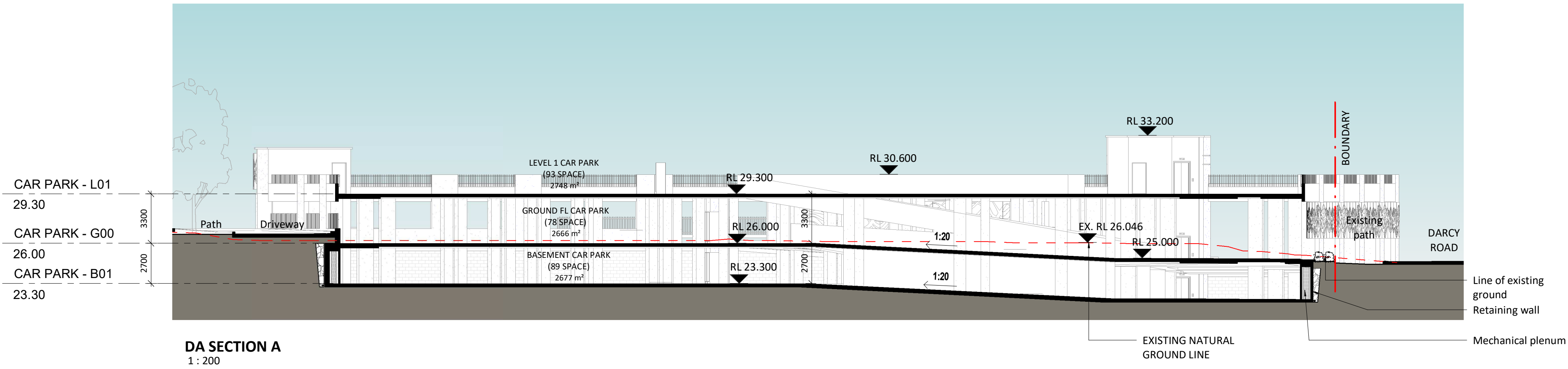


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PROPOSED LEVEL 1 FLOOR

PLAN  
sheet

19122	CP-DA-103	A
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**Catholic Education Diocese  
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## DEVELOPMENT APPLICATION

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verified:	CG
sheet size:	A1

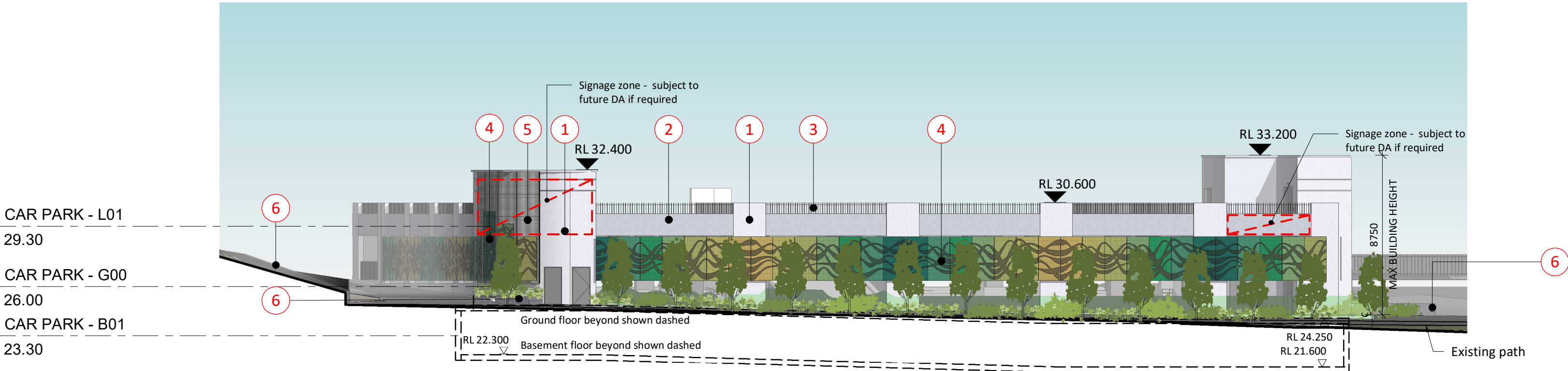
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SECTIONS  
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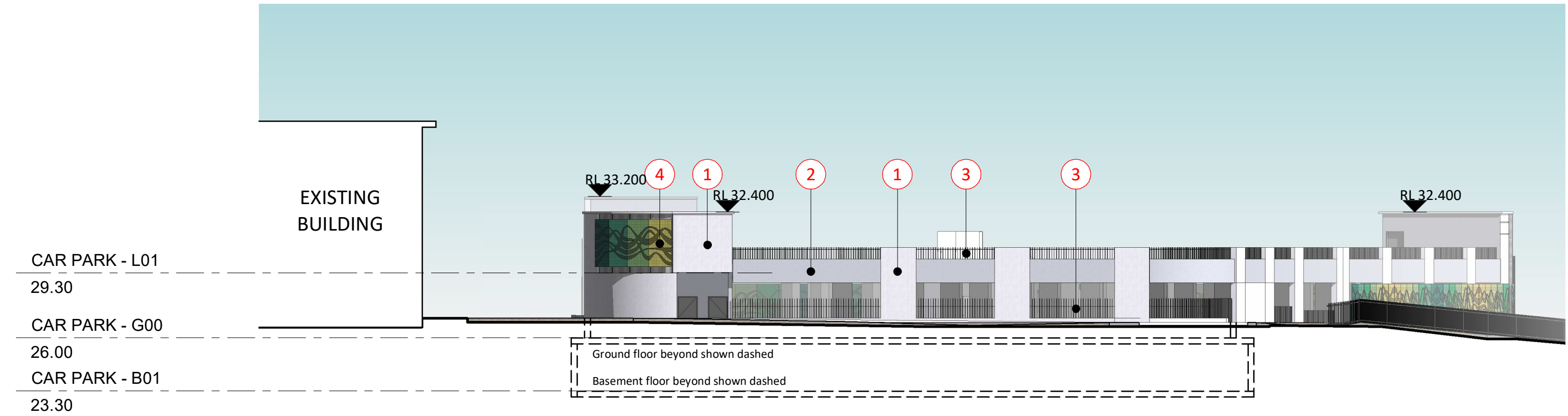
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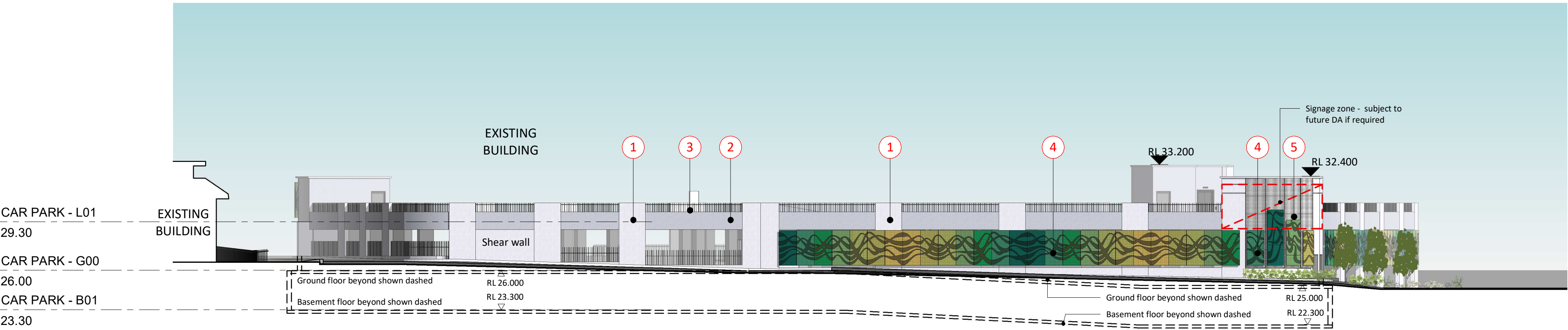
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Natural screen pattern is indicative only  
and subject to future selection.



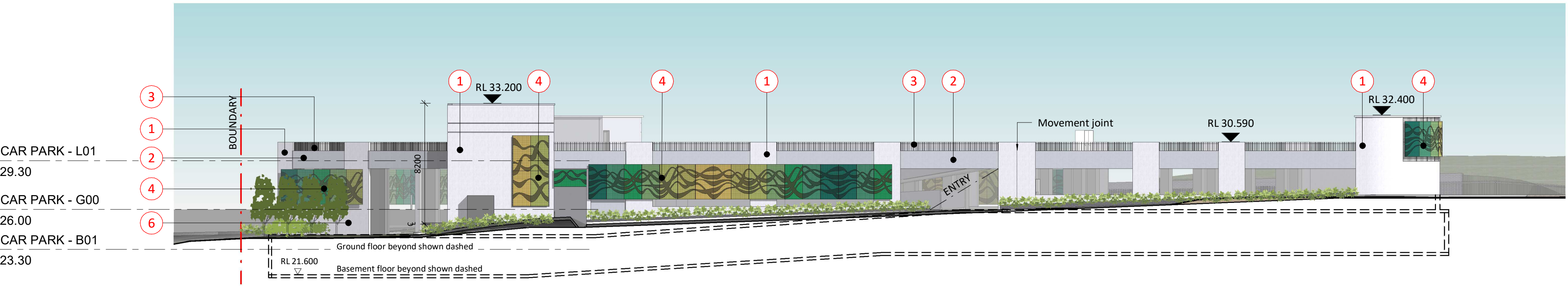
**NORTH ELEVATION**  
1 : 200



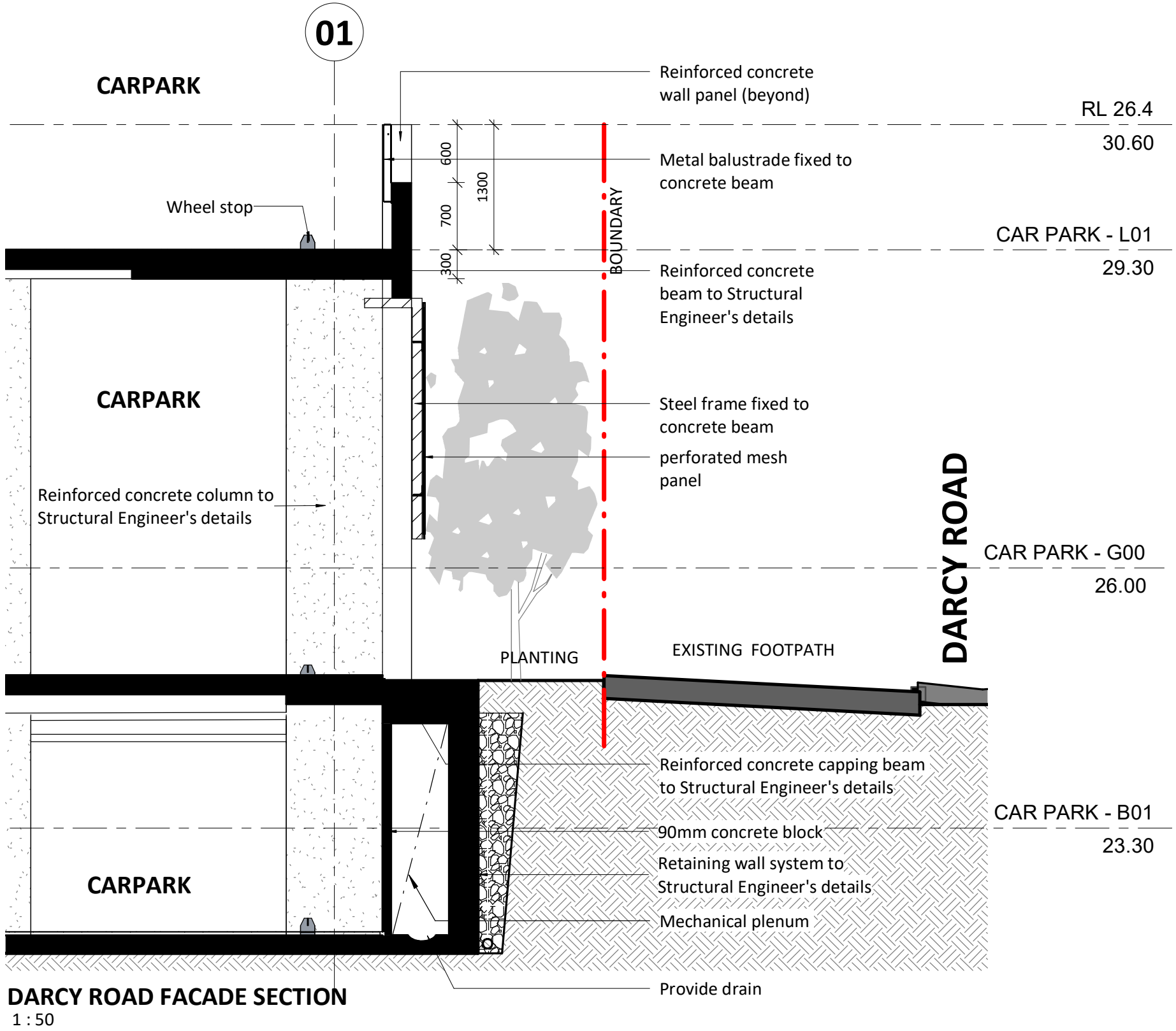
**SOUTH ELEVATION**  
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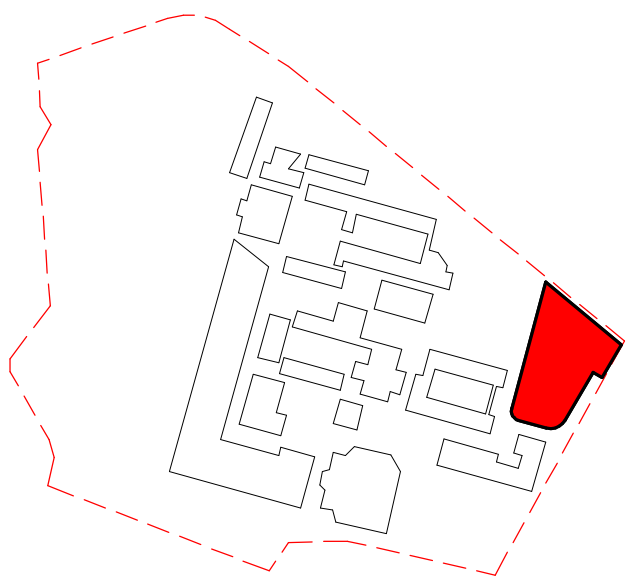
**EAST ELEVATION**  
1 : 200



**WEST ELEVATION**  
1 : 200



**DARCY ROAD FACADE SECTION**  
1 : 50



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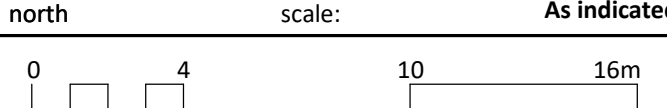
project  
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**DEVELOPMENT APPLICATION**

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sheet size:	A1

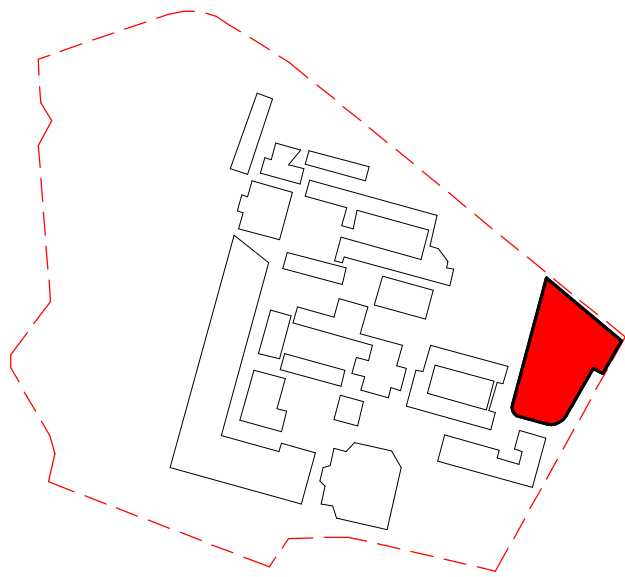


**ELEVATIONS**  
sheet

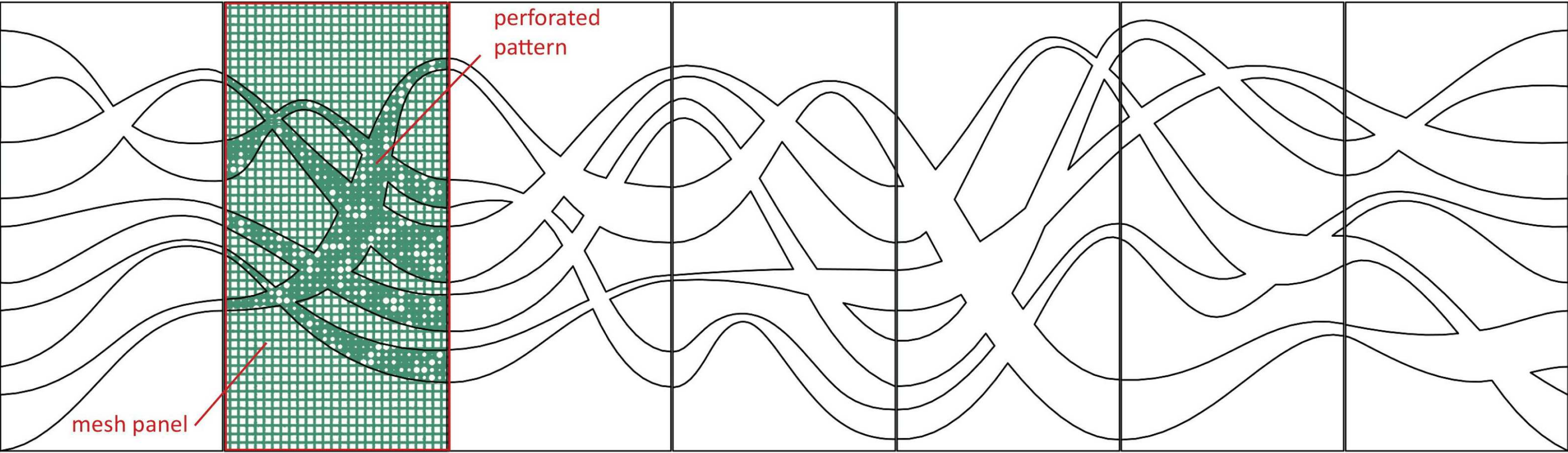
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project\_no. sheet\_no. issue



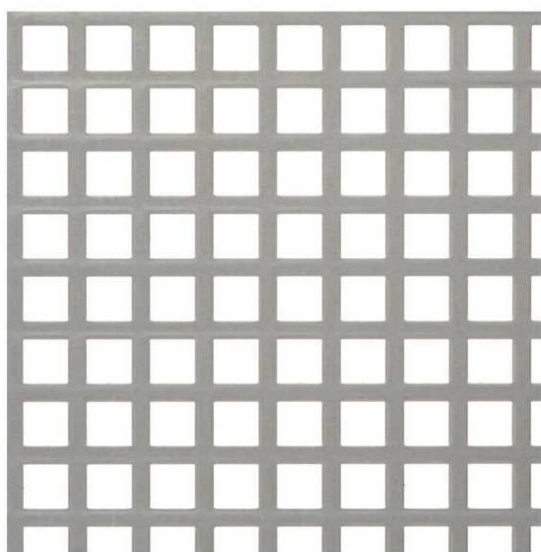
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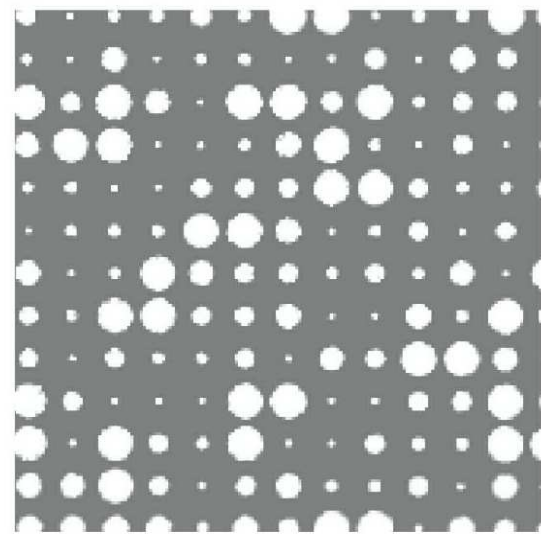
KEY PLAN CAR PARK



sample panel



④ Powdercoated metal mesh screen



⑤ Powdercoated perforated metal screen ( pattern: Champagne)



Signage zone to subjectt  
o future DA if required

Signage zone - subject to  
future DA if required



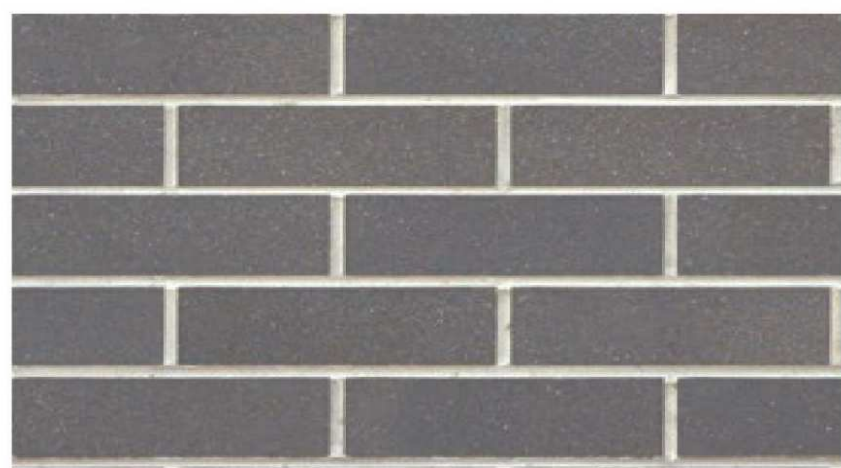
④ & ⑤ Powdercoat colour selection(Dulux Colours)



① Painted Concrete  
(C4- Colorbond-Shale Grey)



② Painted Concrete  
(C30- Colorbond- Basalt)



⑥ Face brick planter  
Austral(Blue Gum)

MATERIALS LEGEND

1. Painted Concrete  
- C4 - Colorbond 'Shale Grey' or similar
2. Painted Concrete  
- C30 - Colorbond 'Basalt' or similar
3. Painted metal balustrade  
- Colorbond Monument or similar
4. Powerdercoated metal mesh screen  
- Colorbond Monument or similar
5. Powdercoated perforated metal screen  
- Refer to Finishes Board for paint colours
6. Face brick planter  
- Austral 'Blue Gum' or similar

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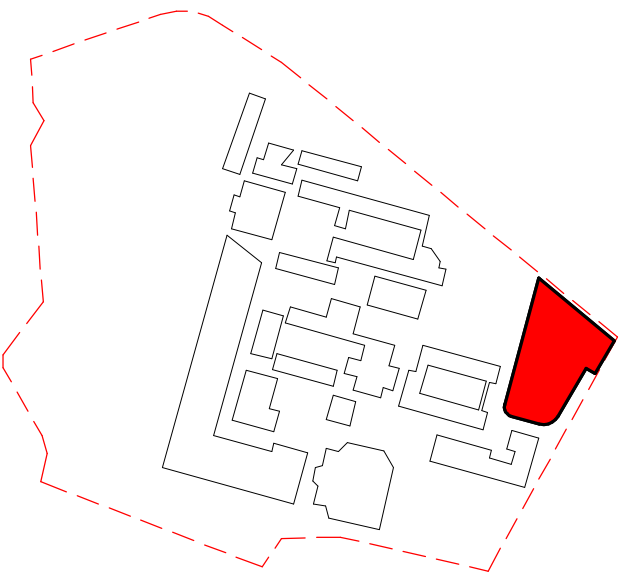
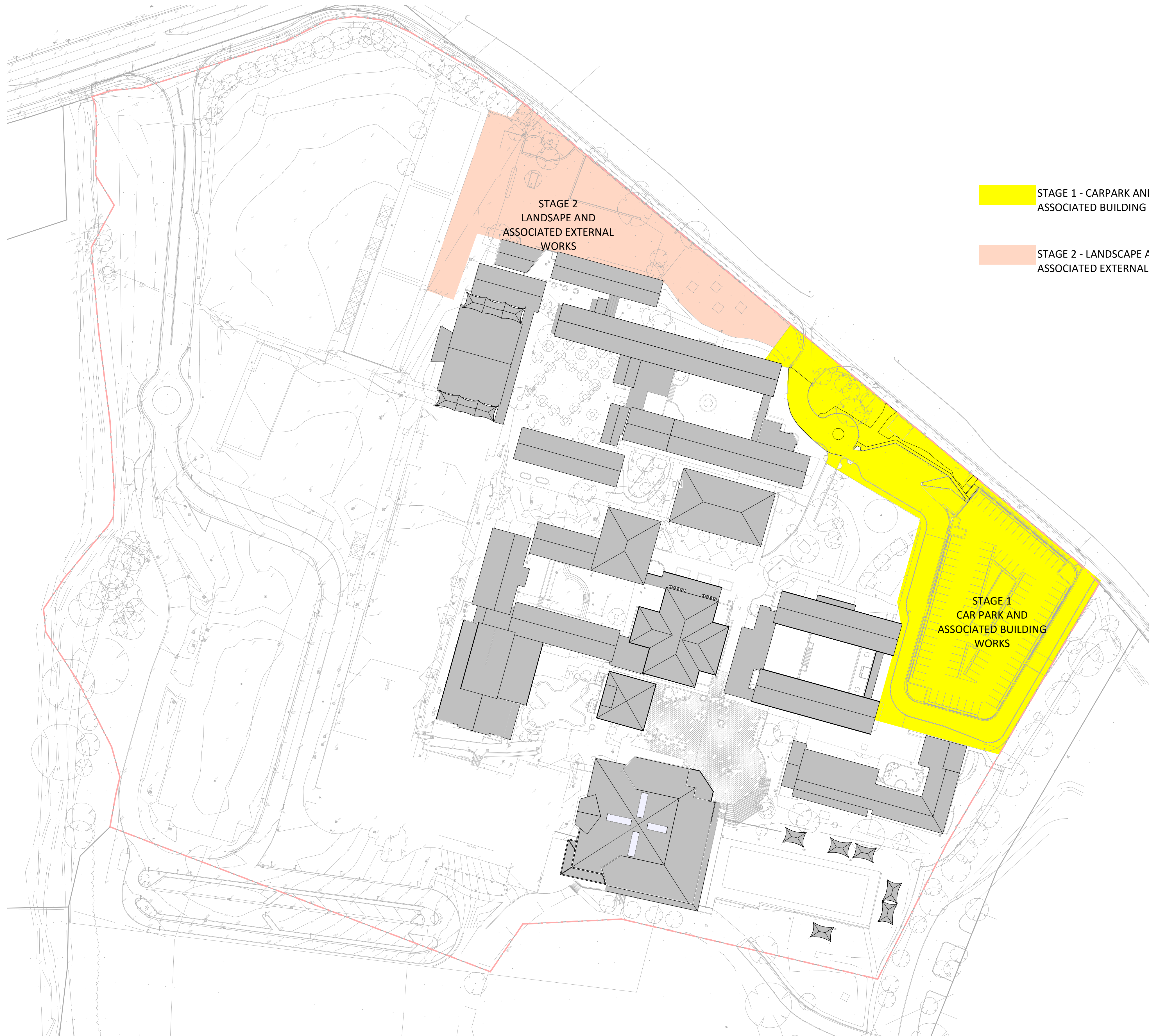
DEVELOPMENT APPLICATION

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FINISHES  
sheet

19122 CP-DA-220 B  
project\_no. sheet\_no. issue





KEY PLAN CAR PARK

- STAGE 1 - CARPARK AND ASSOCIATED BUILDING WORKS
- STAGE 2 - LANDSCAPE AND ASSOCIATED EXTERNAL WORKS

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STAGING DIAGRAM  
sheet

19122	CP-DA-801	A
project_no.	sheet_no.	issue



WESTMEAD CATHOLIC COMMUNITY

Westmead NSW 2145

CARPARK DA LANDSCAPE DOCUMENTATION

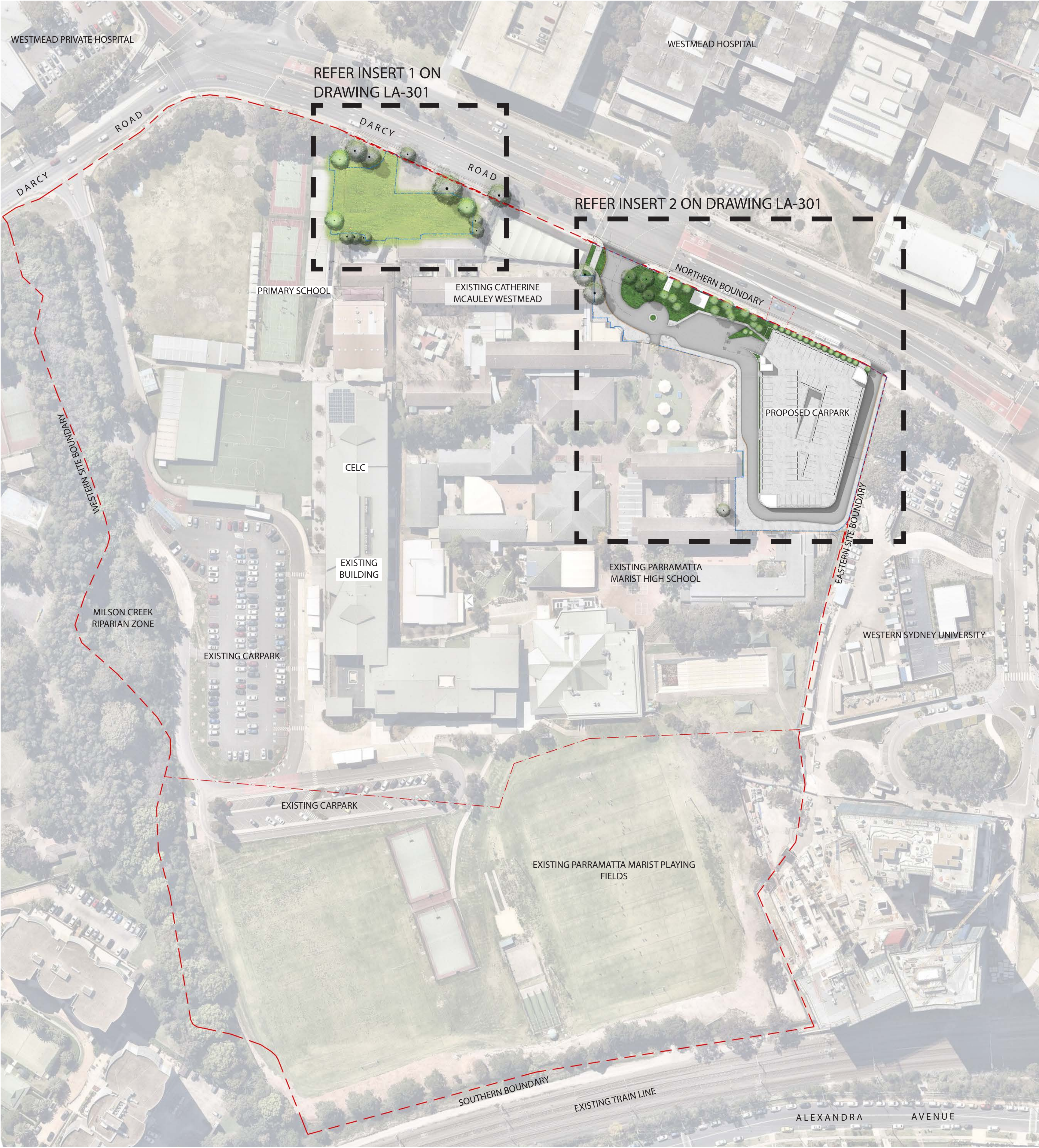
DOCUMENT REGISTER

DRAWING NUMBER	DRAWING NAME	SCALE / DRAWING SIZE
LA-001	LANDSCAPE COVER SHEET	-
LA-101	LANDSCAPE MASTERPLAN	1:1000 / A1
LA-201	EXISTING TREE PLAN	1:500 / A1
LA-301	CARPARK LANDSCAPE PLAN	1:250 / A1
LA-401	CARPARK DEEP SOIL	1:750 / A1
LA-501	INDICATIVE PLANT PALETTE	1:20 / A1

FOR DEVELOPMENT APPLICATION

LANDSCAPE ARCHITECT	CLIENT	ARCHITECT	PROJECT MANAGER	ENGINEER	NOTE		REVISION	DATE	DESCRIPTION	DRAWN	CHECKED	DRAWING TITLE	DATE	JOB NUMBER	DRAWN	CHECKED	DRAWING NUMBER
<div>GROUND <b>ink</b></div> <div>SUITE 201, 75 ARCHER ST, CHATSWOOD NSW 2067 PH. (02) 9411 3279 WWW.GROUNDINK.COM.AU ABN 55 163 025 456 ACN 163 025 456</div> <div>© GROUND INK PTY LTD THIS DESIGN AND DRAWING IS PROTECTED BY COPYRIGHT.</div>	<div> DIOCESE of PARRAMATTA</div> <div>12 VICTORIA RD, PARRAMATTA NSW 2150 PH. (02) 8838 3400 https://parracatholic.org/</div>	<div>ALLEANZA ARCHITECTURE</div> <div>LEVEL 1, 695-699 GEORGE STREET HAYMARKET, NSW 2000 PH. (02) 8039 8822 https://www.alleanza.com.au/</div>	<div>WINIM</div> <div>214 / 40 YEO STREET NEUTRAL BAY, NSW 2089 PH. (02) 8021 7667 https://winim.com.au/</div>	<div> NORTHROP</div> <div>LEVEL 11, 345 GEORGE STREET SYDNEY, NSW 2000 PH. (02) 9241 4188 https://northrop.com.au/</div>	VERIFY ALL DIMENSIONS ON SITE BEFORE COMMENCING WORK. REPORT ALL DISCREPANCIES TO LANDSCAPE ARCHITECT PRIOR TO CONSTRUCTION. FIGURED DIMENSIONS TO BE TAKEN IN PREFERENCE TO SCALED DRAWINGS. ALL WORK IS TO CONFORM TO RELEVANT AUSTRALIAN STANDARDS AND OTHER CODES AS APPLICABLE. LOCATION OF UNDERGROUND SERVICES TO BE PROVEN ON SITE AND PROTECTED IF NECESSARY PRIOR TO CONSTRUCTION. DIAL BEFORE YOU DIG.PLANT SPECIES AND QUANTITIES SHOWN ARE INDICATIVE ONLY AND ARE SUBJECT TO CHANGE BASED ON FUTURE PROJECT REQUIREMENTS.	A	03 APR 20	FOR DEVELOPMENT APPLICATION	MC	RL	LANDSCAPE COVER SHEET	16-Jul-20	20190722	MC	RL	LA-001	
						B	16 JUL 20	REVISED DEVELOPMENT APPLICATION	NS	RL		PROJECT					
												WESTMEAD CATHOLIC COMMUNITY					
												WESTMEAD, NSW 2145					
												SCALE	REV				
												N/A	B				





FOR DEVELOPMENT APPLICATION

LANDSCAPE ARCHITECT

GROUND **ink**

SUITE 201, 75 ARCHER ST, CHATSWOOD NSW 2067 PH. (02) 9411 3279  
WWW.GROUNDINK.COM.AU ABN 55 163 025 456 ACN 163 025 456  
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CLIENT

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PARRAMATTA

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PH. (02) 8838 3400  
https://parracatholic.org/

ARCHITECT

ALLEANZA  
ARCHITECTURE

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HAYMARKET, NSW 2000  
PH. (02) 8039 8822  
https://www.alleanza.com.au/

PROJECT MANAGER

WINIM

214 / 40 YEO STREET  
SYDNEY, NSW 2000  
PH. (02) 8021 7667  
https://winim.com.au/

ENGINEER

NORTHROP

LEVEL 11, 345 GEORGE STREET  
SYDNEY, NSW 2000  
PH. (02) 9241 4188  
https://northrop.com.au/

NOTE

VERIFY ALL DIMENSIONS ON SITE BEFORE COMMENCING WORK. REPORT ALL DISCREPANCIES TO LANDSCAPE ARCHITECT PRIOR TO CONSTRUCTION. FIGURED DIMENSIONS TO BE TAKEN IN PREFERENCE TO SCALED DRAWINGS. ALL WORK IS TO CONFORM TO RELEVANT AUSTRALIAN STANDARDS AND OTHER CODES AS APPLICABLE. LOCATION OF UNDERGROUND SERVICES TO BE PROVEN ON SITE AND PROTECTED IF NECESSARY PRIOR TO CONSTRUCTION. DIAL BEFORE YOU DIG. PLANT SPECIES AND QUANTITIES SHOWN ARE INDICATIVE ONLY AND ARE SUBJECT TO CHANGE BASED ON FUTURE PROJECT REQUIREMENTS.

REVISION	DATE	DESCRIPTION	DRAWN	CHECKED
A	03 APR 20	FOR DEVELOPMENT APPLICATION	MC	RL
B	16 JUL 20	REVISED DEVELOPMENT APPLICATION	NS	RL

DRAWING TITLE

LANDSCAPE MASTERPLAN

DATE: 16-Jul-20 JOB NUMBER: 20190722 DRAWN: MC CHECKED: RL DRAWING NUMBER: LA-101

PROJECT: WESTMEAD CATHOLIC COMMUNITY  
WESTMEAD, NSW 2145

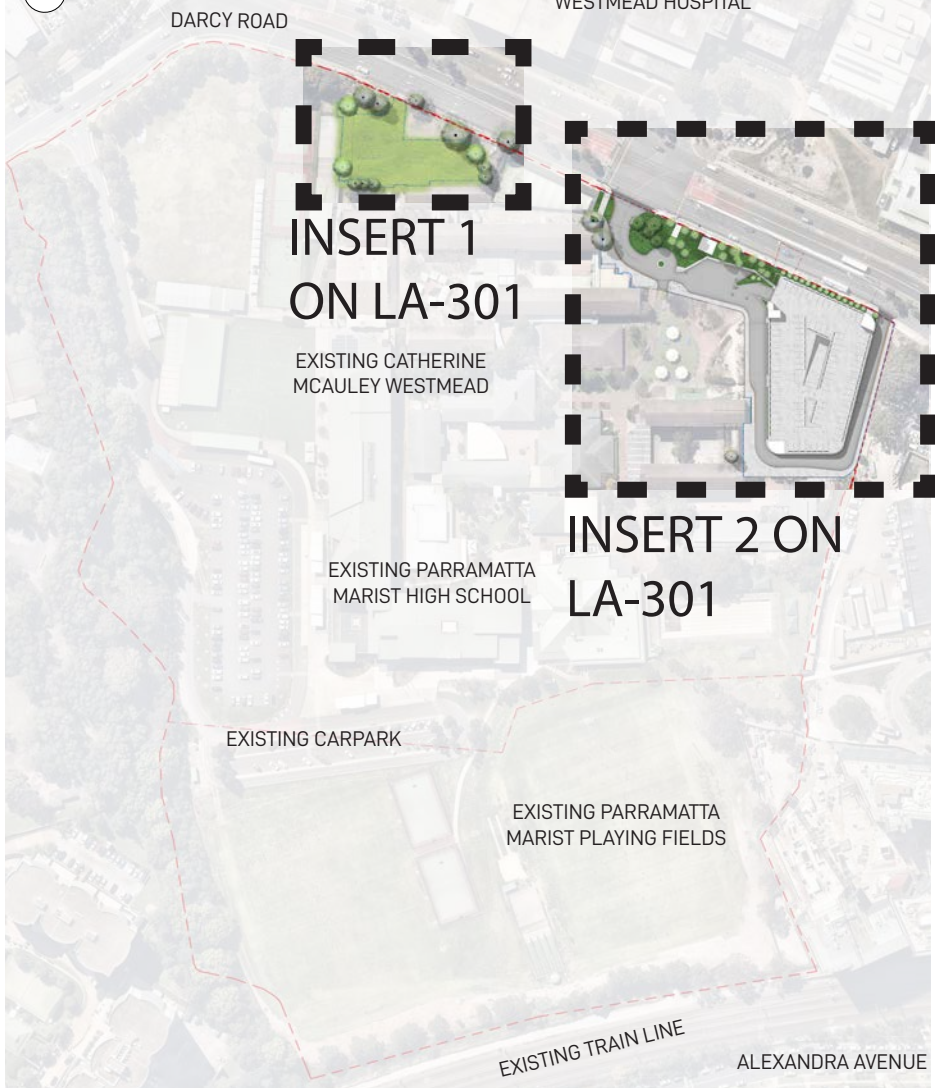
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REV: A





EXISTING TREE SCHEDULE		
ID	DESCRIPTION	PROPOSED ACTION
1	BOLUSANTHUS SP. (TREE WISTERIA)	REMOVE
2	CALLISTEMON VIMINALIS (WEeping BOTTLEBRUSH)	REMOVE
3	CALLISTEMON VIMINALIS (WEeping BOTTLEBRUSH)	REMOVE
4	ARCHONTOPHOENIX CUNNINGHAMIANA (BANGALOW PALM)	REMOVE
5	CALLISTEMON VIMINALIS (WEeping BOTTLEBRUSH)	REMOVE
6	JACARANDA MIMOSIFOLIA (JACARANDA)	REMOVE
7	ULMUS PARVIFOLIA (CHINESE WEeping ELM)	REMOVE
8	ULMUS PARVIFOLIA (CHINESE WEeping ELM)	REMOVE
9	CALLISTEMON VIMINALIS (WEeping BOTTLEBRUSH)	REMOVE
10	QUERCUS PALUSTRIS (PIN OAK)	REMOVE
11	QUERCUS PALUSTRIS (PIN OAK)	REMOVE
12	QUERCUS PALUSTRIS (PIN OAK)	REMOVE
13	QUERCUS PALUSTRIS (PIN OAK)	REMOVE
14	BRACHYCHITON RUPESTRIS (BOTTLE TREE)	REMOVE
15	LOPHOSTEMON CONFERTUS (BRUSH BOX)	REMOVE
16	LOPHOSTEMON CONFERTUS 'VARIEGATA' (VARIEGATED BRUSH BOX)	REMOVE
17	LIQUIDAMBER STYRACIFLUA (LIQUIDAMBER)	REMOVE
18	LOPHOSTEMON CONFERTUS (BRUSH BOX)	REMOVE
19	FRAXINUS SP. (ASH)	RETAINED
20	CAMELLIA SASANQUA (CAMELLIA)	RETAINED
21	LOPHOSTEMON CONFERTUS (BRUSH BOX)	RETAINED
22	LOPHOSTEMON CONFERTUS (BRUSH BOX)	REMOVE
23	BRACHYCHITON RUPESTRIS (BOTTLE TREE)	REMOVE
24	JACARANDA MIMOSIFOLIA (JACARANDA)	RETAINED
25	LOPHOSTEMON CONFERTUS (BRUSH BOX)	RETAINED
26	LOPHOSTEMON CONFERTUS (BRUSH BOX)	RETAINED
27	PHOENIX CANARIENSIS (CANARY ISLAND DATE PALM)	RETAINED
28	SYAGRUS ROMANZOFFIANUM (COCOS PALM)	REMOVE
29	CALLISTEMON VIMINALIS (WEeping BOTTLEBRUSH)	RETAINED
30	LIQUIDAMBER STYRACIFLUA (LIQUIDAMBER)	RETAINED
31	FLINDERSIA AUSTRALIS (CROW'S ASH)	REMOVE
32	ULMUS PARVIFOLIA (CHINESE WEeping ELM)	REMOVE
33	ULMUS PARVIFOLIA (CHINESE WEeping ELM)	RETAINED
34	BAUHINIA VARIEGATA (BUTTERFLY TREE)	RETAINED
35	COTONEASTER SP. (COTONEASTER )	RETAINED
46	PLATANUS XACERIFOLIA (LONDON PLANE)	RETAINED
47	PLATANUS XACERIFOLIA (LONDON PLANE)	REMOVE
48	FRAXINUS SP. (ASH)	REMOVE
49	FRAXINUS SP. (ASH)	REMOVE
50	CELTIS AUSTRALIS (HACKBERRY)	REMOVE
51	PLATANUS XACERIFOLIA (LONDON PLANE)	REMOVE
83	CASUARINA GLAUCA (SWAMP SHE OAK)	RETAINED
84	PINUS RADIATA (MONTEREY PINE)	RETAINED
85	PINUS RADIATA (MONTEREY PINE)	RETAINED
86	CINNAMOMUM CAMPHORA (CAMPHOR LAUREL)	RETAINED
87	EUCALYPTUS BOTRYOIDES (BANGALAY)	RETAINED
88	EUCALYPTUS BOTRYOIDES (BANGALAY)	RETAINED
89	EUCALYPTUS CREBRA (NARROW LEAF IRONBARK)	RETAINED
90	EUCALYPTUS CREBRA (NARROW LEAF IRONBARK)	RETAINED
95	ULMUS PROCERA (GREEN ENGLISH ELM)	REMOVE
96	PLATANUS XACERIFOLIA (LONDON PLANE)	RETAINED
97	FICUS MICROCARPA 'HILLI' (HILLS WEeping FIG)	REMOVE
98	CALLISTEMON VIMINALIS (WEeping BOTTLEBRUSH)	REMOVE
99	SPATHODEA CAMPANULATA (AFRICAN TULIP TREE)	REMOVE
149	CASUARINA CUNNINGHAMIANA (RIVER SHE OAK)	RETAINED
150	CASUARINA CUNNINGHAMIANA (RIVER SHE OAK)	RETAINED
183	CUPRESSUS SP. (CYPRESS PINE)	REMOVE
184	QUERCUS PALUSTRIS (PIN OAK)	REMOVE
185	QUERCUS PALUSTRIS (PIN OAK)	REMOVE
* EXISTING TREE HEIGHTS AND SPECIES SOURCED FROM TREEIQ REPORT DATED MARCH 2020		



LEGEND

T234

EXISTING TREE TO BE RETAINED

T160

EXISTING TREE TO BE REMOVED

LANDSCAPE ARCHITECT

GROUND iNK

SUITE 201, 75 ARCHER ST, CHATSWOOD NSW 2067 PH. (02) 9411 3279  
WWW.GROUNDINK.COM.AU ABN 55 163 025 456 ACN 163 025 456  
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https://winim.com.au/

ENGINEER

NORTHROP

LEVEL 11, 345 GEORGE STREET  
SYDNEY, NSW 2000  
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https://northrop.com.au/

NOTE

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REVISION	DATE	DESCRIPTION	DRAWN	CHECKED
A	03 APR 20	FOR DEVELOPMENT APPLICATION	MC	RL
B	16 JUL 20	REVISED DEVELOPMENT APPLICATION	NS	RL

DRAWING TITLE

EXISTING TREE PLAN

DATE: 16 JUL 20 JOB NUMBER: 20190722 DRAWN: MC CHECKED: RL DRAWING NUMBER: LA-201

PROJECT: WESTMEAD CATHOLIC COMMUNITY WESTMEAD, NSW 2145

SCALE: 1:500 / A1

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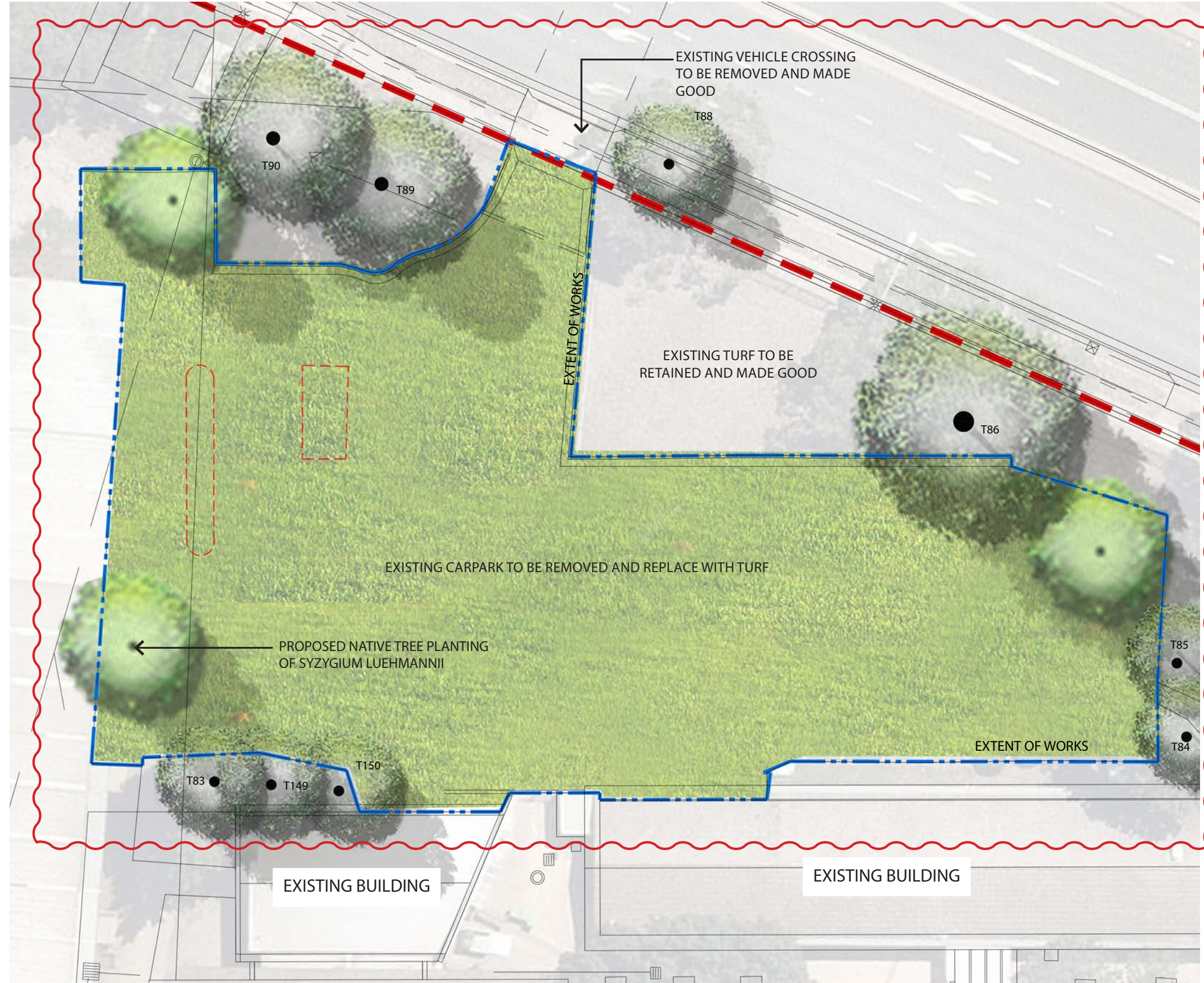
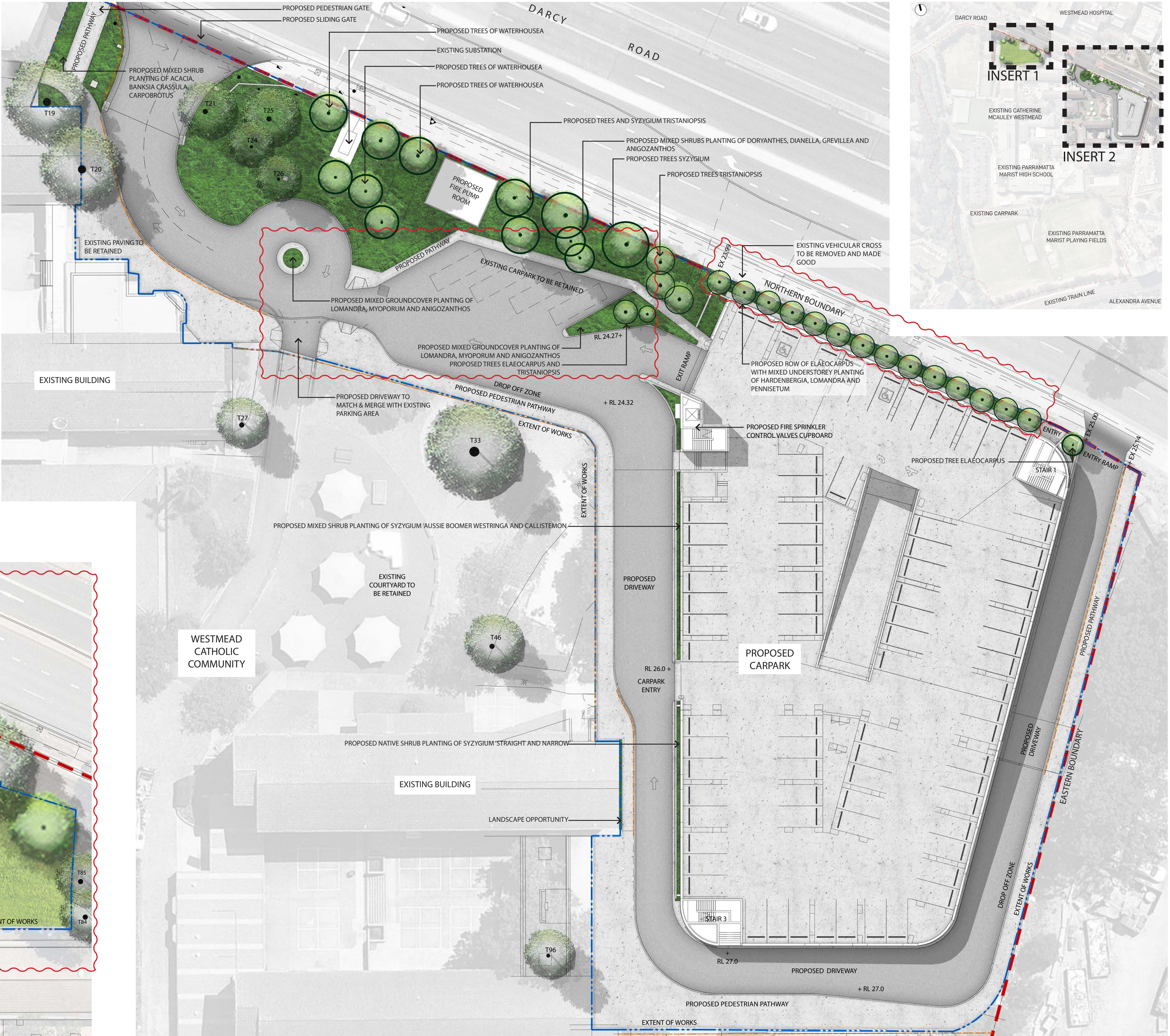
NORTH

REV A

FOR DEVELOPMENT APPLICATION



- LEGEND
- SITE BOUNDARY
  - EXTENT OF WORKS
  - 1200MM HIGH FENCE
  - + EX EXISTING SPOT LEVEL
  - + RL PROPOSED SPOT LEVEL
  - PROPOSED TREES
  - MASS PLANTING CONSISTING OF MIXED SHRUBS, GRASSES AND GROUNDCOVERS REFER TO INDICATIVE PLANT PALETTE ON DRAWING LA-601 FOR FURTHER DETAILS
  - EXISTING TREES TO BE RETAINED REFER TO DRAWING LA201 FOR FURTHER DETAILS



INSERT 1

INSERT 2

FOR DEVELOPMENT APPLICATION

LANDSCAPE ARCHITECT

**GROUND INK**

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WWW.GROUNDINK.COM.AU ABN 55 163 025 456 ACN 163 025 456  
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CLIENT

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PH. (02) 8838 3400  
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ARCHITECT

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A	03 APR 20	FOR DEVELOPMENT APPLICATION	MC	RL
B	16 JUL 20	REVISED DEVELOPMENT APPLICATION	NS	RL

DRAWING TITLE

**CARPARK LANDSCAPE PLAN**

DATE 16-Jul-20 JOB NUMBER 20190722 DRAWN MC CHECKED RL DRAWING NUMBER LA-301

PROJECT WESTMEAD CATHOLIC COMMUNITY WESTMEAD, NSW 2145

SCALE 1:250 / A1

0 2 4 6 8 10m

NORTH

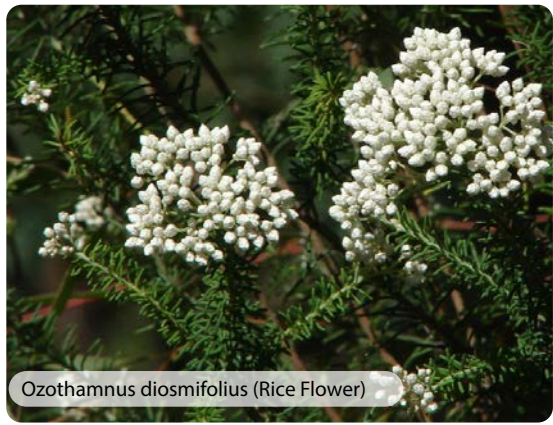
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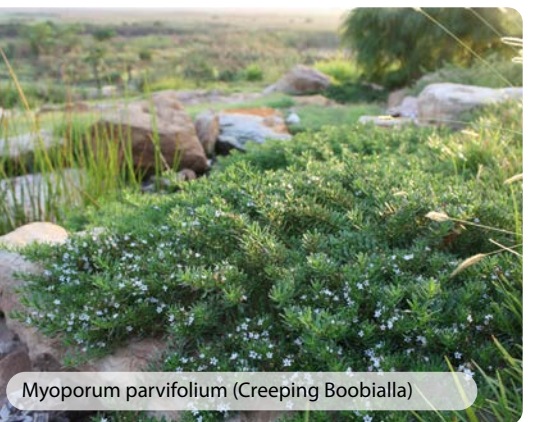
TREES



SHRUBS



GRASSES & GROUNDCOVERS



INDICATIVE PLANT PALETTE

BOTANICAL NAME	COMMON NAME	MATURE HEIGHT	QUANTITIES	NATIVE
TREES				
ELAEOCARPUS RETICULATUS	BLUEBERRY ASH	15M	16	✓
SYZYGium LUEHMANNII	RIBERRY LILLY PILLY	15M	6	✓
TRISTANIOPSIS LAURINA	WATER GUM	15M	7	✓
WATERHOUSEA FLORIBUNDA	WEEPING LILLY PILLY	12M	6	✓
SHRUBS				
ADENANTHOS 'SILVER LINING'	WOOLLY BUSH	0.6M	N / A	✓
ACACIA 'MINI COG'	BOWER WATTLE	0.6M	N / A	✓
BANKSIA 'BIRTHDAY CANDLES'	HAIRPIN BANKSIA	0.5M	N / A	✓
CRASSULA 'BLUE BIRD'	JADE PLANT	0.6M	N / A	✓
DORYANTHES EXCELSA	GYMEA LILY	3M	N / A	✓
EREMOPHILA 'BLUE HORIZON'	TAR BUSH	0.4M	N / A	✓
GREVILLEA LONGIFOLIA	FERN-LEAF SPIDER FLOWER	1.5M	N / A	✓
OZOTHAMNUS DIOSMIFOLIUS	RICE FLOWER	0.8M	N / A	✓
SYZYGium 'AUSSIE BOOMER'	LILLY PILLY	2.5M	N / A	✓
WESTRINGIA FRUTICOSA	COASTAL ROSEMARY	2M	N / A	✓
GRASSES AND GROUNDCOVERS				
ANIGOZANTHOS 'AMBER VELVET'	KANGAROO PAW	0.5M	N / A	✓
CALLISTEMON 'RED ROVER'	BOTTLE BRUSH	0.4M	N / A	✓
CARPOBROTUS GLAUDESCENS	PIGFACE	TRAILING	N / A	✓
CLEMATIS ARISTATA	OLD MAN'S BEARD	TRAILING	N / A	✓
DIANELLA CAERULEA	BLUE FLAX LILY	1M	N / A	✓
HARDENBERGIA VIOLACEA	NATIVE SARSAPARILLA	0.8M	N / A	✓
LIRIOPE 'JUST RIGHT'	LILY TURF	0.5M	N / A	✓
LOMANDRA LONGIFOLIA	BASKET RUSH	1M	N / A	✓
MYOPORUM PARVIFOLIUM	CREEPING BOOBIALLA	TRAILING	N / A	✓
PENNISETUM 'NAFRAY'	DWARF FOUNTAIN GRASS	0.6M	N / A	✓
SENECIO SERPENS	BLUE CHALKSTICKS	TRAILING	N / A	✓
TRACHELOSPERMUM 'TRICOLOUR'	STAR JASMINE	TRAILING	N / A	✓

OUTLINE LANDSCAPE SPECIFICATION

**General**  
Maintenance shall mean the care and maintenance of the landscape works by accepted horticultural practice as rectifying any defects that become apparent in the landscape works under normal use. The landscape contractor shall attend the site on a weekly basis to maintain the landscape works for the full term approved at CC stage of the maintenance period (commencing from practical completion).

**Rubbish Removal**  
During the term of the maintenance period the Landscape Contractor shall undertake rubbish removal from the site on a weekly basis to ensure the site remains in tidy condition.

**Weed Eradication**  
Weed growth that may occur in, planted or mulched areas is to be removed using environmentally acceptable methods i.e. non-residual glyphosate herbicide, (e.g. 'Roundup', applied in accordance with the manufacturer's directions) or hand weeding.

**Tree Replacement**  
Trees shall show signs of healthy vigorous growth and be free from disease and not exhibit signs of stress prior to handover to the client. Any trees or plant that die or fail to thrive, or are damaged or stolen will be replaced. Replacement material shall have the maintenance period extended in accordance with the landscape contract conditions. Trees and plant materials shall be equal to the minimum requirements of species specified and approved material delivered to site. Should the condition decline from the approved sample the Superintendent reserves the right to reject the tree / plants. Frequency: as required.

**Pruning**  
Selective pruning may be required during the establishment period to promote a balanced canopy structure. These activities shall be carried out to the best horticultural and industry practice. All pruned material is to be removed from site.

**Irrigation**  
A low volume drip irrigation system may be installed at the discretion of the Developer. Position of control box, solenoids and irrigation conduits to be designed by qualified irrigation engineer at CC stage  
Controllers shall be mounted on a stable wall, power rack, or formed and constructed concrete based pedestal mount. Performance specification to be provided by landscape architect, nominally 25mm delivered to

plant areas each week during establishment (depending on weather conditions). After establishment, irrigation rates can be decreased in certain areas of the landscape depending on the species.

**Watering**  
Implement an appropriate hand watering regime in areas not irrigated in association with current watering programme to maintain plant health and vigour. The program shall reflect seasonal conditions and plant species.  
Frequency: Weekly or as required.

**Drainage**  
All landscape areas are to have positive drainage to SW systems. If areas of poor drainage are identified on site then this should be brought to the site superintendents attention. Install agg lines if required.

**Soils**  
Horizon A - Garden beds on natural ground  
A sandy loam to clay loam topsoil mix designed for general purpose, on-grade landscape garden bed planting of grasses, woody and herbaceous annuals and perennials that have high nutrient requirement for sustained optimum growth, and are not subject to compaction by pedestrian and

other foot traffic. Heavier textured soils in this specification may require engineered solutions where excessive wetness is anticipated. Note that organic soil variant should not be chosen for low P plantings and should not be used below 300mm. Planting methods include direct seeding, tube and potted specimens up to 45L

**Cultivation**  
All garden beds to be cultivated to a min depth of 150mm and tree pits to the depth of the root ball only. If additives such as gypsum are required conduct this after cultivation into the top 100mm of soil.

**Planting**  
All planting to be grown to NATSPEC specifications. Contractor to prepare site for planting including watering, handling, setting out and excavation. Excavate a hole for each plant large enough to provide not less than 100mm all around the root system of the plant. For tree planting each hole shall be dug with a shovel, backhoe or similar tool. Individual holes shall be excavated to allow root system to sit flat on the excavated hole and 400mm to each side of the root system. Backfill planting holes with existing site soil and topsoil as described in section 'Soil', plant / Tree shall be set plumb, with

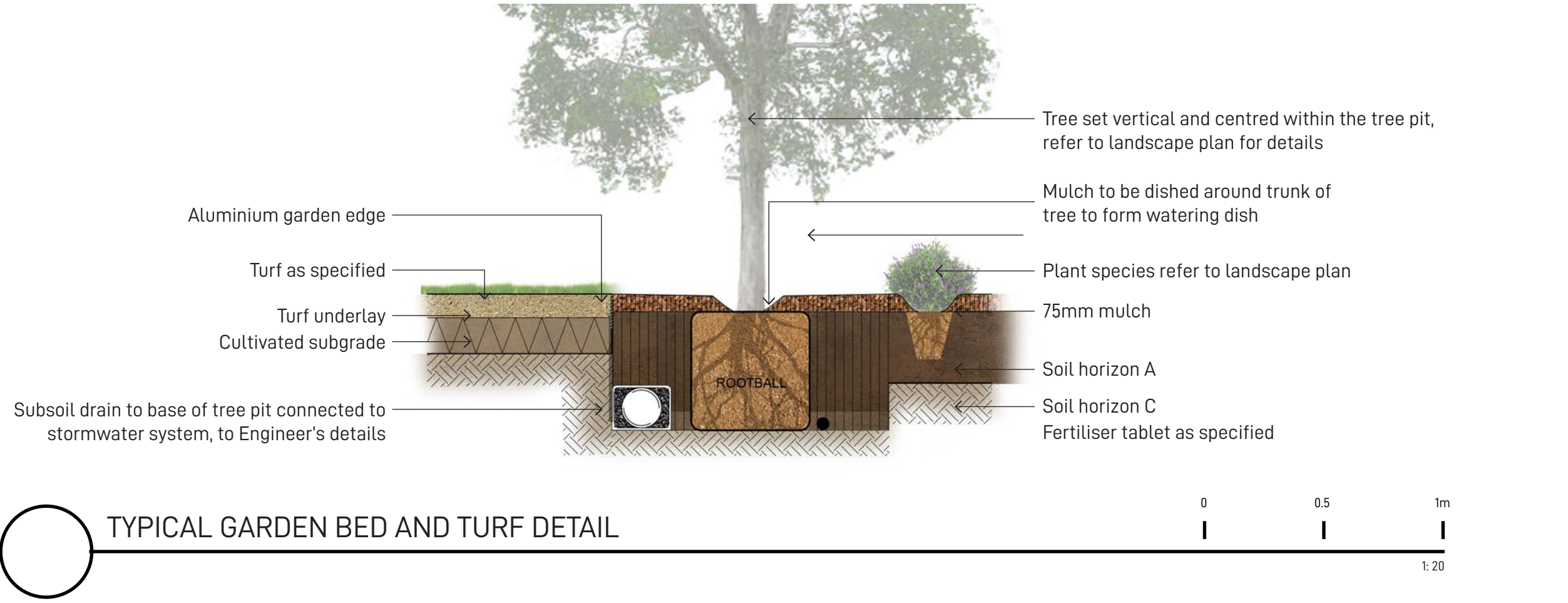
the root ball set slightly below the final soil level.

**Mulching**  
The Landscape Contractor shall supply and install 10mm Pine Bark Mulch to all garden beds shown on the landscape plans, to a minimum depth of 75mm. All mulch is to be free of deleterious matter such as soil, weeds and sticks. Mulched surfaces are to be kept clean and tidy and free of any deleterious material and foreign matter. Reinstatement depths to a uniform level of 75mm with mulch as specified, mulch to be free of any wood material impregnated with CCA or similar toxic treatment. Maintain watering rings around trees. Top up mulch levels prior to handover to client.

**Turfing**  
The landscape contractor shall supply and install Sapphire Buffalo turf in stretcher pattern to all turf areas shown on the landscape plans and is to finish flush with adjacent surfaces. Turf to be a min thickness of 50mm with a 40mm mowing height. Contractor to allow for fertilising, laying, tamping, watering, top dressing, maintenance and mowing. The landscape contractor shall supply and install turf underlay under all turf areas, consisting of 100mm thick layer of screened top soil.

**Pest and Disease Control**  
The Landscape Contractor shall spray for pests and disease infestations when the pest and fungal attack has been positively identified and when their populations have increased to a point that will become detrimental to plant growth. Apply all pesticides to manufacturer's directions.  
Frequency: weekly inspection

**Fertilising**  
Pellets shall be in the form intended to uniformly release plant food elements for a period of approximately nine months equal to Shirleys KOKEI pellets, analysis 6.3:1.8:2.9 or similar approved. KOKEI pellets shall be placed at the time of planting to the base of the plant, 50mm minimum from the root ball at a rate of two pellets per 300mm of top growth to a maximum of 8 pellets per tree. Generally check for signs of nutrient deficiencies (yellowing of leaves, failure to thrive), and adapt fertiliser regime to suit. Fertiliser should be applied at the beginning and the end of the (summer) growing season.



FOR DEVELOPMENT APPLICATION

LANDSCAPE ARCHITECT	CLIENT	ARCHITECT	PROJECT MANAGER	ENGINEER	NOTE	<table><tr><th>REVISION</th><th>DATE</th><th>DESCRIPTION</th><th>DRAWN</th><th>CHECKED</th></tr><tr><td>A</td><td>03 APR 20</td><td>FOR DEVELOPMENT APPLICATION</td><td>MC</td><td>RL</td></tr><tr><td>B</td><td>16 JUL 20</td><td>REVISED DEVELOPMENT APPLICATION</td><td>NS</td><td>RL</td></tr><tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr></table>	REVISION	DATE	DESCRIPTION	DRAWN	CHECKED	A	03 APR 20	FOR DEVELOPMENT APPLICATION	MC	RL	B	16 JUL 20	REVISED DEVELOPMENT APPLICATION	NS	RL																																									DRAWING TITLE	<table><tr><th>DATE</th><th>JOB NUMBER</th><th>DRAWN</th><th>CHECKED</th><th>DRAWING NUMBER</th></tr><tr><td>16-Jul-20</td><td>20190722</td><td>MC</td><td>RL</td><td>LA-501</td></tr><tr><td colspan="5">PROJECT</td></tr><tr><td colspan="5">WESTMEAD CATHOLIC COMMUNITY</td></tr><tr><td colspan="5">WESTMEAD, NSW 2145</td></tr><tr><td colspan="4">SCALE</td><td>REV</td></tr><tr><td colspan="4">1:20 / A1</td><td>B</td></tr></table>	DATE	JOB NUMBER	DRAWN	CHECKED	DRAWING NUMBER	16-Jul-20	20190722	MC	RL	LA-501	PROJECT					WESTMEAD CATHOLIC COMMUNITY					WESTMEAD, NSW 2145					SCALE				REV	1:20 / A1				B
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# WESTMEAD CATHOLIC COMMUNITY - CARPARK

## DARCY ROAD, WESTMEAD CIVIL DOCUMENTATION



LOCALITY PLAN

SOURCE : NEARMAP.COM.AU (©2019)

### CIVIL DRAWING SCHEDULE

DWG No.	DRAWING TITLE
DAC101.01	COVER SHEET, DRAWING SCHEDULE AND LOCALITY PLAN
DAC101.11	SPECIFICATION NOTES
DAC101.21	GENERAL ARRANGEMENT PLAN
DAC102.01	CONCEPT SEDIMENT AND EROSION CONTROL PLAN
DAC102.11	SEDIMENT AND EROSION CONTROL DETAILS
DAC104.01	SITEWORKS AND STORMWATER MANAGEMENT PLAN
DAC104.21	STORMWATER LONGITUDINAL SECTIONS - SHEET 01
DAC104.22	STORMWATER LONGITUDINAL SECTIONS - SHEET 02
DAC104.23	STORMWATER LONGITUDINAL SECTIONS - SHEET 03
DAC104.31	STORMWATER MANAGEMENT DEVICES
DAC104.41	STORMWATER CATCHMENT PLAN
DAC107.01	DETAILS - SHEET 01
DAC107.02	DETAILS - SHEET 02



NOT FOR CONSTRUCTION

REVISION	DESCRIPTION	ISSUED	VER'D	APP'D	DATE	CLIENT	ARCHITECT	SCALE	ALL DIMENSIONS TO BE VERIFIED ON SITE BEFORE COMMENCING WORK. NORTHROP ACCEPTS NO RESPONSIBILITY FOR THE USABILITY, COMPLETENESS OR SCALE OF DRAWINGS TRANSFERRED ELECTRONICALLY. THIS DRAWING MAY HAVE BEEN PREPARED USING COLOUR, AND MAY BE INCOMPLETE IF COPIED TO BLACK & WHITE.	<b>NORTHROP</b> Sydney Level 11 345 George Street, Sydney NSW 2000 Ph (02) 9241 4188 Fax (02) 9241 4324 Email sydney@northrop.com.au ABN 81 094 433 100	PROJECT <b>WESTMEAD CATHOLIC COMMUNITY DARCY ROAD, WESTMEAD CARPARK</b>	DRAWING TITLE <b>CIVIL DOCUMENTATION COVER SHEET, DRAWING SCHEDULE AND LOCALITY PLAN</b>	JOB NUMBER <b>192734</b>	DRAWING NUMBER <b>DAC101.01</b>	REVISION <b>1</b>	DRAWING SHEET SIZE = A1
1	ISSUED FOR DA	TB		NN	27.03.20		<b>WINIM</b> THE COPYRIGHT OF THIS DRAWING REMAINS WITH NORTHROP CONSULTING ENGINEERS PTY LTD	0 20 40 60 80 100m								



NOTE: ALL CIVIL ENGINEERING CONSTRUCTION WORKS TO BE CARRIED OUT IN ACCORDANCE WITH CITY OF PARRAMATTA COUNCIL DEVELOPMENT GUIDELINES .THE AFOREMENTIONED GUIDELINES INCLUSIVE OF ALL SPECIFICATIONS TAKE PRECEDENCE OVER NOTES PROVIDED BELOW.

GENERAL NOTES

THESE DRAWINGS SHALL BE READ IN CONJUNCTION WITH OTHER CONSULTANTS' DRAWINGS AND SPECIFICATIONS AND WITH OTHER SUCH WRITTEN INSTRUCTIONS AS MAY BE ISSUED DURING THE COURSE OF THE CONTRACT. ANY DISCREPANCY SHALL BE REFERRED TO THE ENGINEER BEFORE PROCEEDING WITH THE WORK.

ALL DIMENSIONS ARE IN MILLIMETRES & ALL LEVELS ARE IN METRES, UNO (UNLESS NOTED OTHERWISE).

NO DIMENSION SHALL BE OBTAINED BY SCALING THE DRAWINGS.

ALL LEVELS AND SETTING OUT DIMENSIONS SHOWN ON THE DRAWINGS SHALL BE CHECKED ON SITE PRIOR TO THE COMMENCEMENT OF THE WORK.

DETAIL SURVEY DATA WAS SUPPLIED BY VINCE MORGAN SURVEYORS, DRAWING DATED 21.10.19.

EXISTING SERVICES WHERE SHOWN HAVE BEEN PLOTTED FROM SUPPLIED DATA AND SUCH THEIR ACCURACY CAN NOT BE GUARANTEED. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ESTABLISH THE LEVEL OF ALL EXISTING SERVICES PRIOR TO THE COMMENCEMENT OF WORK.

CONTRACTOR TO INVESTIGATE LOCATION AND INVERT LEVELS OF EXISTING STORMWATER NETWORK AND ADVISE NORTHROP OF ANY DISCREPANCY.

ON COMPLETION OF STORMWATER INSTALLATION, ALL DISTURBED AREAS MUST BE RESTORED TO ORIGINAL CONDITION, INCLUDING KERBS, FOOTPATHS, CONCRETE AREAS, GRAVEL AND GRASSED AREAS AND ROAD PAVEMENTS, UNLESS DIRECTED OTHERWISE.

ACCESS AND SAFETY

1. THE CONTRACTOR SHALL COMPLY WITH ALL STATUTORY AND INDUSTRIAL REQUIREMENTS FOR PROVISION OF A SAFE WORKING ENVIRONMENT INCLUDING TRAFFIC CONTROL.

2. THE CONTRACTOR SHALL PROVIDE TRAFFIC MANAGEMENT PLANS FOR THE PROPOSED WORKS COMPLETED BY A SUITABLY QUALIFIED PERSON AND APPROVED BY COUNCIL / REGULATORY AUTHORITY. WORK IS NOT TO COMMENCE ON SITE PRIOR TO APPROVAL OF TRAFFIC MANAGEMENT SCHEME.

3. THE CONTRACTOR SHALL ENSURE THAT AT ALL TIMES ACCESS TO BUILDINGS ADJACENT THE WORKS IS NOT DISRUPTED.

4. WHERE NECESSARY THE CONTRACTOR SHALL PROVIDE SAFE PASSAGE OF VEHICLES AND/OR PEDESTRIANS THROUGH OR BY THE SITE.

5. THE CONTRACTOR SHALL ENSURE PUBLIC ACCESS EXTERNAL TO THE SITE IS IN ACCORDANCE WITH COUNCILS / AUTHORITY / SITE MANAGERS REQUIREMENTS.

EXISTING SERVICES

1. ALL UTILITY SERVICES INDICATED ON THE DRAWINGS ORIGINATE FROM SUPPLIED DATA OR DIAL BEFORE YOU DIG SEARCHES, THEREFORE THEIR ACCURACY AND COMPLETENESS IS NOT GUARANTEED. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE AND CONFIRM THE LOCATION AND LEVEL OF ALL EXISTING SERVICES PRIOR TO THE COMMENCEMENT OF ANY WORK. ANY DISCREPANCIES SHALL BE REPORTED TO THE SUPERINTENDENT. CLEARANCES SHALL BE OBTAINED FROM THE RELEVANT SERVICE AUTHORITY. NOTE SERVICE AUTHORITY REQUIREMENTS FOR LOCATING OF SERVICES PRIOR TO COMMENCEMENT OF WORKS.

2. CARE TO BE TAKEN WHEN EXCAVATING NEAR EXISTING SERVICES. NO MECHANICAL EXCAVATIONS ARE TO BE UNDERTAKEN OVER COMMUNICATION, GAS OR ELECTRICAL SERVICES. HAND EXCAVATION ONLY IN THESE AREAS.

3. THE CONTRACTOR SHALL PROTECT AND MAINTAIN ALL EXISTING SERVICES THAT ARE TO BE RETAINED IN THE VICINITY OF THE PROPOSED WORKS. ANY AND ALL DAMAGE TO THESE SERVICES AS A RESULT OF THESE WORKS SHALL BE REPAIRED BY THE CONTRACTOR UNDER THE DIRECTION OF THE SUPERINTENDENT AT THE CONTRACTORS EXPENSE.

4. THE CONTRACTOR SHALL ALLOW IN THE PROGRAM FOR THE ADJUSTMENT (IF REQUIRED) OF EXISTING SERVICES IN AREAS AFFECTED BY WORKS.

5. THE CONTRACTOR SHALL ALLOW IN THE PROGRAM FOR THE CAPPING OFF, EXCAVATION AND REMOVAL (IF REQUIRED) OF EXISTING SERVICES IN AREAS AFFECTED BY WORKS UNLESS DIRECTED OTHERWISE ON THE DRAWINGS OR BY THE SUPERINTENDENT.

6. THE CONTRACTOR SHALL ENSURE THAT AT ALL TIMES SERVICES TO ALL BUILDINGS ARE NOT AFFECTED BY THE WORKS AND ARE MAINTAINED AND NOT DISRUPTED.

7. PRIOR TO COMMENCEMENT OF ANY WORKS THE CONTRACTOR SHALL GAIN APPROVAL OF THE PROGRAM FOR THE RELOCATION AND/OR CONSTRUCTION OF TEMPORARY SERVICES AND FOR ANY ASSOCIATED INTERRUPTION OF SUPPLY.

8. THE CONTRACTOR SHALL CONSTRUCT TEMPORARY SERVICES TO MAINTAIN EXISTING SUPPLY TO BUILDINGS REMAINING IN OPERATION DURING WORKS TO THE SATISFACTION AND APPROVAL OF THE SUPERINTENDENT. ONCE DIVERSION IS COMPLETE AND COMMISSIONED THE CONTRACTOR SHALL REMOVE ALL SUCH TEMPORARY SERVICES AND MAKE GOOD TO THE SATISFACTION OF THE SUPERINTENDENT.

9. THE CONTRACTOR IS TO ALLOW TO POTHOLE ANY SERVICES WITHIN A PUBLIC RESERVE WITHIN THE EXTENT OF WORKS (E.G. STORMWATER CROSSINGS).

SITEWORKS

1. ALL WORKS TO BE IN ACCORDANCE WITH RELEVANT LOCAL COUNCIL / REGULATORY AUTHORITIES REQUIREMENTS, ALL SPECIFICATIONS AND AUSTRALIAN STANDARDS. CONFLICTS BETWEEN SAID DOCUMENTS SHALL BE REFERRED TO THE SUPERINTENDENT FOR DIRECTION.

2. THE CONTRACTOR IS TO REVIEW THE DRAWINGS PRIOR TO PRICING AND COMMENCEMENT AND REPORT ANY DISCREPANCIES TO NORTHROP

3. ANY PRODUCTS SPECIFIED OR USED TO BE VERIFIED BY THE CONTRACTOR AS BEING SAFE AND APPROPRIATE FOR USE. NORTHROP DO NOT TAKE ANY RESPONSIBILITY FOR THE USE OF UNSAFE PRODUCTS

4. THE CONTRACTOR IS TO DESIGN, OBTAIN APPROVALS AND CARRY OUT REQUIRED TEMPORARY TRAFFIC CONTROL PROCEDURES DURING CONSTRUCTION IN ACCORDANCE WITH ALL REGULATORY AUTHORITIES, INCLUSIVE OF LOCAL COUNCIL REGULATIONS AND REQUIREMENTS.

5. THE CONTRACTOR IS TO OBTAIN ALL AUTHORITY APPROVALS AS REQUIRED PRIOR TO COMMENCEMENT OF WORKS.

6. RESTORE ALL PAVED, COVERED, GRASSED AND LANDSCAPED AREAS TO THEIR ORIGINAL CONDITION OR AS DIRECTED BY THE SITE SUPERINTENDENT ON COMPLETION OF WORKS. WHERE PLANTING OF NEW GRASS IS NECESSARY REFER TO LANDSCAPE ARCHITECT AND / OR ARCHITECT DOCUMENTATION.

7. ON COMPLETION OF ANY TRENCHING WORKS, ALL DISTURBED AREAS SHALL BE RESTORED TO THEIR ORIGINAL CONDITION OR AS DIRECTED BY THE SITE SUPERINTENDENT, INCLUDING KERBS, FOOTPATHS, CONCRETE AREAS, GRAVEL, GRASSED AREAS AND ROAD PAVEMENTS.

8. THE CONTRACTOR SHALL ARRANGE ALL SURVEY SETOUT TO BE CARRIED OUT BY A REGISTERED SURVEYOR PRIOR TO COMMENCEMENT OF WORKS.THE CONTRACTOR IS TO ENSURE THAT SURVEY BOUNDARIES ARE DERIVED FROM A CADASTRAL SURVEY RATHER THAN A DETAIL SURVEY.

9. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND EXISTING LEVELS ONSITE PRIOR TO LODGMENT OF TENDER AND ONSITE WORKS. THE PRICE AS TENDERED SHALL BE INCLUSIVE OF ALL WORKS SHOWN ON THE TENDER PROJECT DRAWINGS. ADDITIONAL PAYMENTS FOR WORKS SHOWN ON THE TENDER PROJECT DRAWINGS WILL NOT BE APPROVED.

10. DO NOT OBTAIN DIMENSIONS BY SCALING DRAWINGS.

11. IN CASE OF DOUBT OR DISCREPANCY REFER TO SUPERINTENDENT FOR CLARIFICATION OR CONFIRMATION PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.

12. WHERE NEW WORKS ABUT EXISTING THE CONTRACTOR SHALL ENSURE THAT A SMOOTH EVEN PROFILE, FREE FROM ABRUPT CHANGES IS OBTAINED. MAKE SMOOTH TRANSITION TO EXISTING FEATURES AND MAKE GOOD WHERE JOINED.

13. TRENCHES THROUGH EXISTING ROAD AND CONCRETE PAVEMENTS SHALL BE SAWCUT TO FULL DEPTH OF CONCRETE AND A MIN 50mm IN BITUMINOUS PAVING.

14. ALL CIVIL ENGINEERING DESIGN HAS BEEN DOCUMENTED UNDER THE ASSUMPTION THAT ALL NECESSARY SITE CONTAMINATION REMEDIATION WORKS HAVE BEEN SATISFACTORILY COMPLETED (IF APPLICABLE) AND THAT THE SITE IS NOT AFFECTED BY ANY SOIL STRATA OR GROUNDWATER TABLE CONTAMINATION.

15. NOTES ON DETAILS PROVIDED TAKE PRECEDENCE OVER SPECIFICATION NOTES UNLESS IN CONTRADICTION WITH COUNCIL/AUTHORITY SPECIFICATIONS/DETAILS. CONTRACTOR TO CONSULT WITH NORTHROP FOR ANY DISCREPANCIES.

16. IF THE CONTRACTOR DISCOVERS HAZARDOUS/CONTAMINATED MATERIAL THE CONTRACTOR SHALL CONSULT WITH AN ENVIRONMENTAL SPECIALIST.

17. THE CONTRACTOR IS RESPONSIBLE FOR DEALING WITH COMMUNITY COMPLAINTS ASSOCIATED WITH THE WORKS UNDER THE CONTRACT AND TO COMPENSATE FOR/RECTIFY ANY DAMAGE REASONABLY CAUSED BY THE CONTRACTOR.

18. THE TERM 'MAKE GOOD' OR 'MAKE NEAT' IS IN REFERENCE TO THE SATISFACTION OF NORTHROP OR CERTIFYING ENGINEER. THE CONTRACTOR IS TO SEEK CLARIFICATION FROM NORTHROP OR THE CERTIFYING ENGINEER IF NECESSARY.

SERVICE TRENCHES

19. SAWCUT EXISTING SURFACES PRIOR TO EXCAVATION. BACKFILL ALL TRENCHES UNDER EXISTING ROADS, PAVEMENTS AND PATHS WITH STABILISED SAND 5% CEMENT OR DGS40 MATERIAL (5% CEMENT) COMPACTED IN 200mm THICK LAYERS TO 98% MMD TO UNDERSIDE OF PAVEMENT.

BACKFILL ALL TRENCHES NOT UNDER ROADS, PAVEMENTS, PATHS AND BUILDINGS WITH APPROVED EXCAVATED OR IMPORTED MATERIAL COMPACTED TO 95% SMDD.

STORMWATER DRAINAGE

1. ALL PIPES SHALL BE CLASS 2 RUBBER-RING JOINTED RCP U.N.O. WHERE uPVC PIPES HAVE BEEN SPECIFIED, THE FOLLOWING CLASS PIPEWORK IS TO BE ADOPTED U.N.O. Ø100mm OR LESS TO BE CLASS 'SN10' AND ABOVE Ø100mm TO BE CLASS 'SN8'. CLASS 4 PIPES ARE TO BE USED WHERE COVER OVER THE PIPE IS BELOW 600mm AND BENEATH A TRAFFICABLE PAVEMENT.

2. uPVC STORMWATER LINES PASSING UNDER FLOOR SLABS TO BE CONCRETE ENCASED.

3. FRC PIPES EQUAL TO THAT OF THE STEEL REINFORCED CONCRETE PIPE CLASS SPECIFIED ON THE DRAWINGS MAY BE USED SUBJECT TO APPROVAL FROM THE SUPERINTENDENT.

4. ALL PIPE ARE TO BE LAID AT 10% MIN GRADE U.N.O.

5. COVERS

5.1. USE HOT DIPPED GALVANISED COVERS AND GRATES COMPLYING WITH RELEVANT COUNCIL AND AUSTRALIAN STANDARDS.

5.2. ALL COVERS AND GRATES TO BE POSITIONED IN A FRAME AND MANUFACTURED AS A UNIT.

5.3. ALL COVERS AND GRATES TO BE FITTING WITH POSITIVE COVER LIFTING KEYS

5.4. OBTAIN SUPERINTENDENTS APPROVAL FOR THE USE OF CAST IRON SOLID COVERS AND GRATES. CAST IRON SOLID COVERS (IF APPROVED) TO CONSIST OF CROSS-WEBBED, CELLULAR CONSTRUCTION WITH THE RIBS UPPERMOST TO ALLOW INFILLING WITH CONCRETE. INSTALL POSITIVE COVER LIFTING KEYS AND PLASTIC PLUGS.

5.5. UNLESS DETAILED OR SPECIFIED OTHERWISE, COVERS AND GRATES TO BE CLASS 'D' IN VEHICULAR PAVEMENTS AND CLASS 'B' ELSEWHERE.

5.6. ALL GRATED TRENCH DRAINS SHOULD BE 'CLASS D' CAST IRON WITHIN VEHICULAR PAVEMENTS AND CLASS 'B' HEEL SAFE WITHIN PEDESTRIAN PAVEMENTS.

6. ALL PIPE BENDS, JUNCTIONS, ETC ARE TO BE PROVIDED USING PURPOSE MADE FITTINGS OR STORMWATER PITS.

7. ALL CONNECTIONS TO EXISTING DRAINAGE STRUCTURES SHALL BE MADE IN A TRADESMAN-LIKE MANNER AND CEMENT RENDERED TO ENSURE A SMOOTH FINISH.

7. ENSURE PIPEWORK DOES NOT PROTRUDE BEYOND THE INSIDE FACE OF THE PIT WALL. PIPEWORK IS TO FINISH FLUSH WITH INTERNAL WALL (UNLESS OTHERWISE NOTED OR DETAILED). CONNECTION TO BE RENDERED AND MADE NEAT ON THE INSIDE FACE OF THE PIT

8. THE CONTRACTOR SHALL SUPPLY AND INSTALL ALL FITTINGS AND SPECIALS INCLUDING VARIOUS PIPE ADAPTORS TO ENSURE PROPER CONNECTION BETWEEN DISSIMILAR PIPEWORK.

9. U.N.O. MATERIAL USED FOR BEDDING OF PIPES SHALL BE APPROVED NON-COHESIVE GRANULAR MATERIAL HAVING HIGH PERMEABILITY AND HIGH STABILITY WHEN SATURATED AND FREE OF ORGANIC AND CLAY MATERIAL.

10. BEDDING SHALL BE U.N.O TYPE HS2 UNDER ROADS AND H2 UNDER GENERAL AREAS IN ACCORDANCE WITH CURRENT RELEVANT INDUSTRY STANDARDS AND GUIDELINES.

11. THE CONTRACTOR SHALL ENSURE AND PROTECT THE INTEGRITY OF ALL STORMWATER PIPES DURING CONSTRUCTION. ANY AND ALL DAMAGE TO THESE PIPES AS A RESULT OF THESE WORKS SHALL BE REPAIRED BY THE CONTRACTOR UNDER THE DIRECTION OF THE SUPERINTENDENT AND AT NO EXTRA COST TO THE CONTRACT.

12. NOTE THAT THE PIT COVER LEVEL NOMINATED IN GUTTERS ARE TO THE INVERT OF THE GUTTER WHICH ARE 40mm LOWER THAN THE PAVEMENT LEVEL AT LIP OF GUTTER. REFER KERB DETAILS FOR CONFIRMATION.

SUBSOIL DRAINAGE

13. Ø100mm SUBSOIL DRAINAGE LINES WITH NON-WOVEN GEOTEXTILE FILTER SOCK SURROUND SHALL BE CONNECTED TO A STORMWATER DRAINAGE PIT (AT MIN 1% LONGITUDINAL GRADE) AND PROVIDED IN THE FOLLOWING LOCATIONS;

13.1. THE HIGH SIDE OF PROPOSED TRAFFICKED PAVEMENT AREAS.

13.2. ALL PLANTER AND TREE BEDS PROPOSED ADJACENT TO PAVEMENT AREAS.

13.3. BEHIND RETAINING WALLS (IN ACCORDANCE WITH RETAINING WALL DETAILS).

13.4. UPSTREAM OF STORMWATER PITS

13.5. BENEATH FLEXIBLE PAVEMENT ALONG A SAG PROFILE

13.6. ALL OTHER AREAS SHOWN ON DRAWINGS.

13.7. CONTRACTOR IS TO MAKE ALLOWANCE IN BOTH TENDER AND CONSTRUCTION COSTING TO ALLOW FOR SUBSURFACE DRAINAGE BEHIND ALL RETAINING WALLS / ABOVE LOCATIONS AND TO MAKE CONNECTION TO STORMWATER SYSTEM.

14. WHERE SUBSOIL DRAINAGE PASSES BENEATH BUILDINGS / PAVED AREAS AND/OR PAVEMENTS. CONTRACTOR TO ENSURE Ø100mm CLASS 'SN10' uPVC DRAINAGE LINE IS USED AND THAT PROPRIETARY FITTINGS ARE USED TO RECONNECT SUBSOIL DRAINAGE LINE.

15. THE CONTRACTOR SHALL INSTALL INSPECTION OPENINGS / CLEAROUTS TO ALL SUBSOIL DRAINAGE LINES AND DOWNPIPE LINES AS SPECIFIED ON DRAWINGS AND IN ACCORDANCE WITH COUNCIL SPECIFICATIONS. HOWEVER AS A MINIMUM THEY ARE TO BE PLACED AT MAXIMUM 30m CENTRES AND AT ALL UPSTREAM ENDPOINTS.

16. PROVIDE 3.0m LENGTH OF Ø100 SUBSOIL DRAINAGE LINE WRAPPED IN NON-WOVEN GEOTEXTILE FILTER FABRIC TO THE UPSTREAM SIDE OF STORMWATER PITS, LAID IN STORMWATER PIPE TRENCHES AND CONNECTED TO DRAINAGE PIT.

17. IN AREAS WHERE DUMPED / HAND PLACED ROCK IS USED AS A MEANS OF SCOUR PROTECTION, CONTRACTOR IS TO EXCAVATE A MINIMUM OF 100mm FROM PROPOSED SURFACE, LEVEL AND COMPACT SUBGRADE AS SPECIFIED. ROCK TO THEN BE PLACED ON GEOTEXTILE FILTER FABRIC A3.

18. THE CONTRACTR IS TO ENSURE THAT A MINIMUM 150mm CLEARANCE IS PROVIDED BETWEEN THE INTERNAL FACE OF PIPE AND ADJACENT INTERNAL PIT WALLS

19. WHERE TRENCHES ARE IN ROCK, THE PIPE SHALL BE BEDDED ON A MIN 50mm CONCRETE BED (OR 75mm THICK BED OF 12mm BLUE METAL) UNDER THE BARREL OF THE PIPE. THE PIPE COLLAR AT NO POINT SHALL BEAR ON THE ROCK. (E.G. CLEAN 5-12mm AGGREGATE)

PRECAST STORMWATER PITS

1. THE USE OF PRE-CAST STORMWATER DRAINAGE PITS IS NOT ACCEPTED WITHOUT CONFIRMATION BETWEEN NORTHROP ENGINEERS AND THE CONTRACTOR REGARDING QUALITY CONTROL AND CERTIFICATION OF FINISHES.

2. REFER MANUFACTURERS SPECIFICATIONS FOR INSTALLATION GUIDELINES.

3. PRECAST PIT TO BE PLACED ON MINIMUM 150mm THICK CONCRETE PAD AND BED MINIMUM 50mm WHILST CONCRETE IS STILL PARTIALLY WET.

4. ENSURE PENETRATION IS CORED THROUGH PIT FACE TO ALLOW CONNECTION AND IS NOT OVERSIZED.

5. ENSURE A SEALED FINISH AT PIPE CONNECTIONS BY HAND-APPLYING MINIMUM 150mm THICK CONCRETE AROUND PIPE AT THE EXTERNAL FACE OF THE PIT. ENSURE CONCRETE DOES NOT AFFECT THE INTEGRITY OF THE SUBSOIL DRAINAGE CONNECTED TO THE PIT.

6. ENSURE A SMOOTH SEALED FINISH AT PIPE CONNECTIONS BY HAND APPLYING CONCRETE AROUND THE PIPE ON THE INTERNAL FACE OF THE PIT TO FILL IN ANY VOIDS CREATED WHEN PENETRATION FOR THE PIPE WAS CORED.

7. ENSURE PIPEWORK DOES NOT PROTRUDE BEYOND THE INSIDE FACE OF THE PIT WALL. PIPEWORK IS TO FINISH FLUSH WITH INTERNAL WALL (UNLESS OTHERWISE NOTED OR DETAILED). CONNECTION TO BE RENDERED AND MADE NEAT ON THE INSIDE FACE OF THE PIT.

8. ENSURE THE OUTLET PIPE IS CONNECTED AT THE INVERT LEVEL OF THE PIT TO DRAIN. ALTERNATIVELY FILL THE BASE OF THE PIT WITH MASS CONCRETE (MIN 50mm THICK) OR APPROVED GROUTING COMPOUND (LESS THAN 50mm THICK) TO DRAIN.

9. PROVIDE CONCRETE BENCHING TO SIDES OF PIT TO SUIT PIPE DIAMETER. HEIGHT TO MATCH MINIMUM 1/3 PIPE DIAMETER.

ALL STORMWATER MANAGEMENT MEASURES SHOWN ON THIS DRAWING HAVE BEEN PREPARED FOR DEVELOPMENT APPLICATION PURPOSES TO DEMONSTRATE FEASIBILITY. ALL MEASURES WILL BE SUBJECT TO DETAIL DESIGN AT THE CONSTRUCTION CERTIFICATE STAGE AND MAY BE SUBJECT TO VARIATION PROVIDED THAT THE DESIGN INTENT IS MAINTAINED.

DRAWN: V. CHON  
DESIGNED: N. WACKER  
JOB MANAGER: J. GILLIGAN  
VERIFIER:

REVISION	DESCRIPTION	ISSUED	VER'D	APP'D	DATE
1	ISSUED FOR DA	TB		NN	27.03.20



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PROJECT	DRAWING TITLE	JOB NUMBER
WESTMEAD CATHOLIC COMMUNITY DARCY ROAD, WESTMEAD	CIVIL DOCUMENTATION	192734
CARPARK	SPECIFICATION NOTES	

DRAWING NUMBER	REVISION
DAC101.11	1
DRAWING SHEET SIZE = A1	

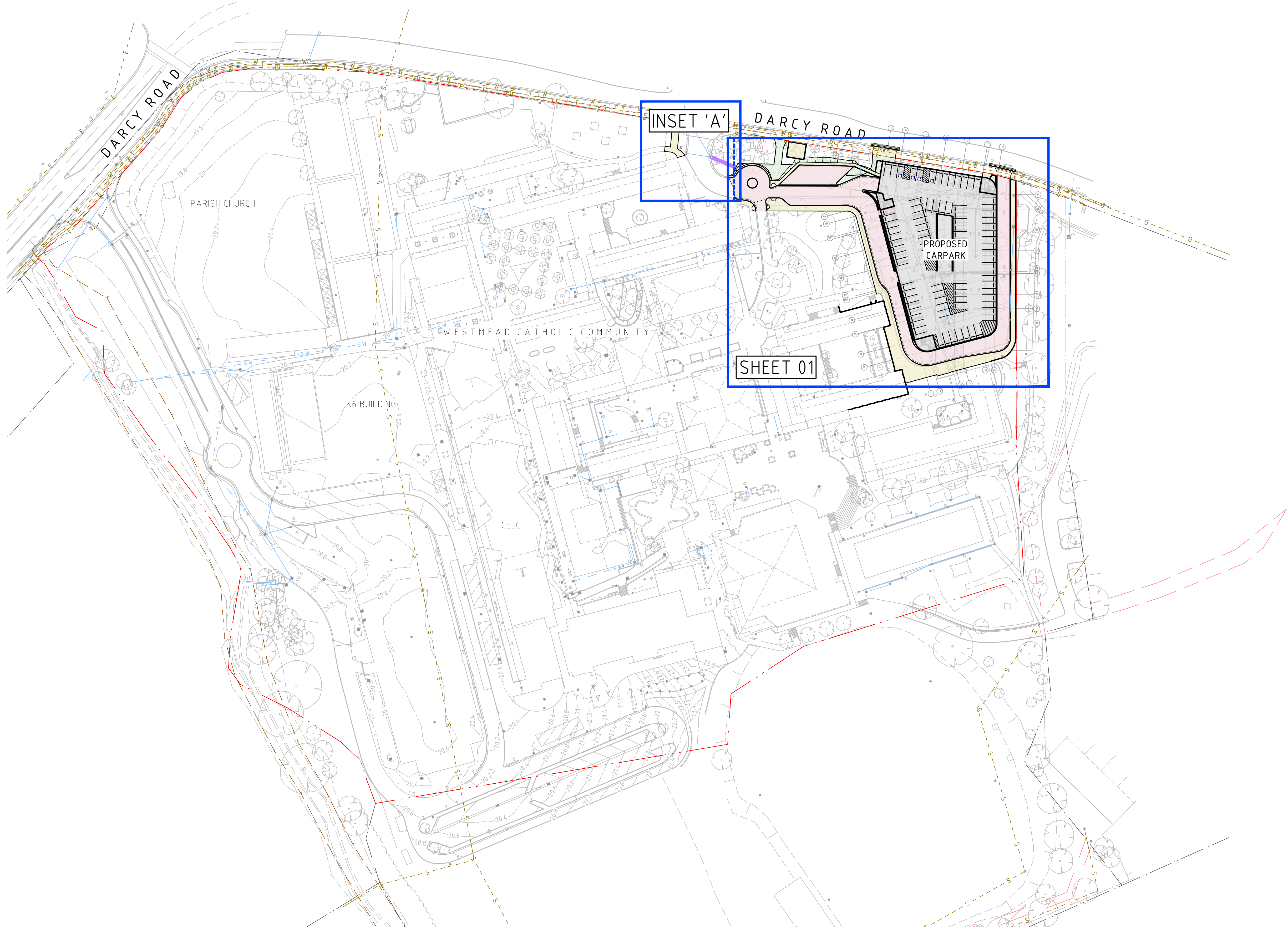


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DESIGNED: N. MAICKER  
JOB MANAGER: J. GILLIGAN  
VERIFIER:



LEGEND

SITE BOUNDARY LINE

EXISTING BOUNDARY LINE

EXISTING CONTOURS

SHEET OUTLINE



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PROJECT

WESTMEAD CATHOLIC COMMUNITY  
DARCY ROAD, WESTMEAD  
  
CARPARK

DRAWING TITLE

CIVIL DOCUMENTATION  
  
GENERAL ARRANGEMENT PLAN

JOB NUMBER

192734

DRAWING NUMBER

DAC101.21

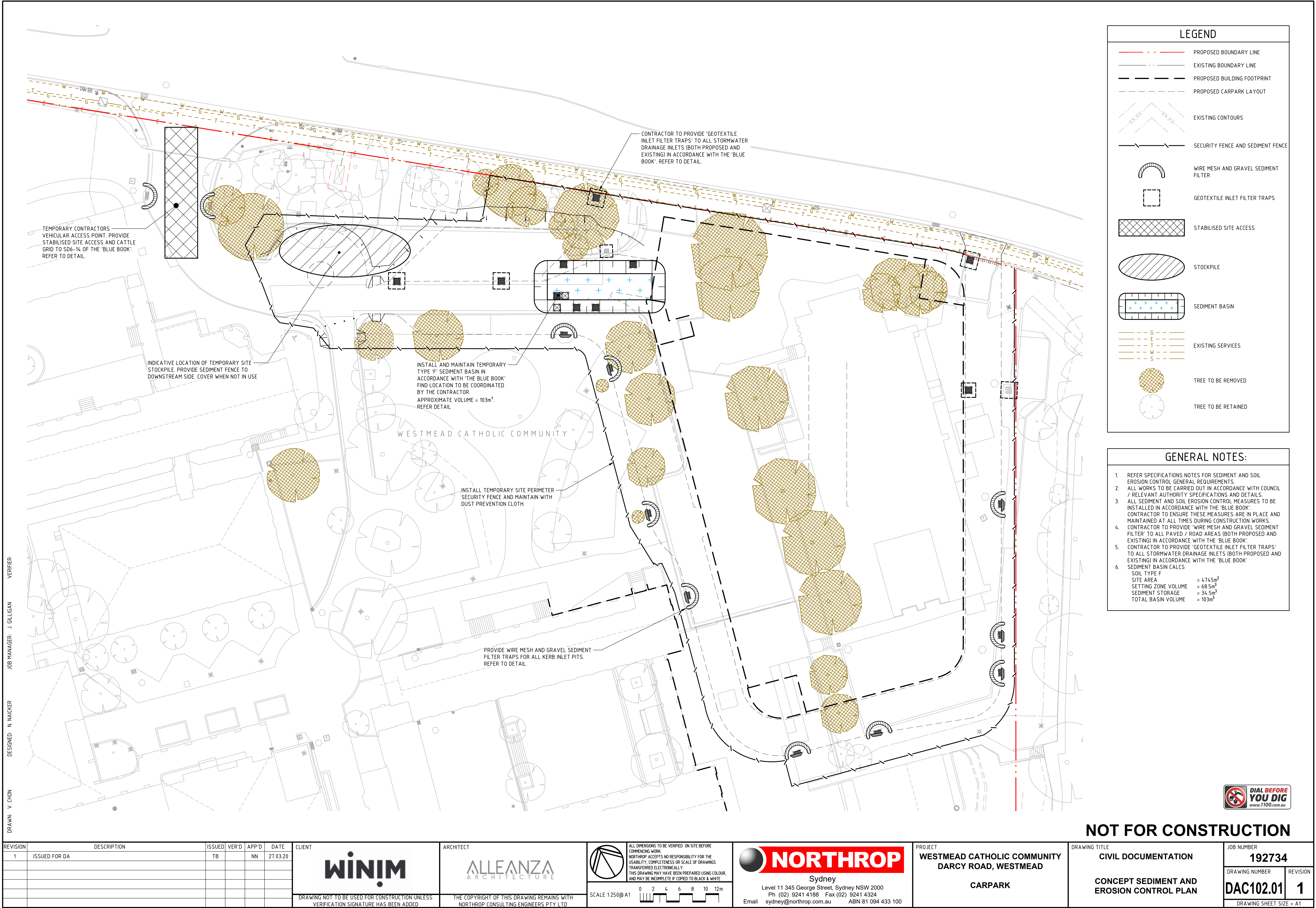
REVISION

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DRAWING SHEET SIZE = A1

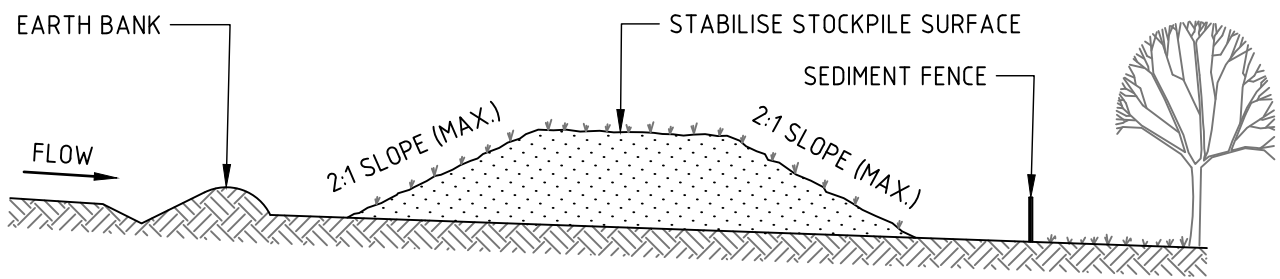
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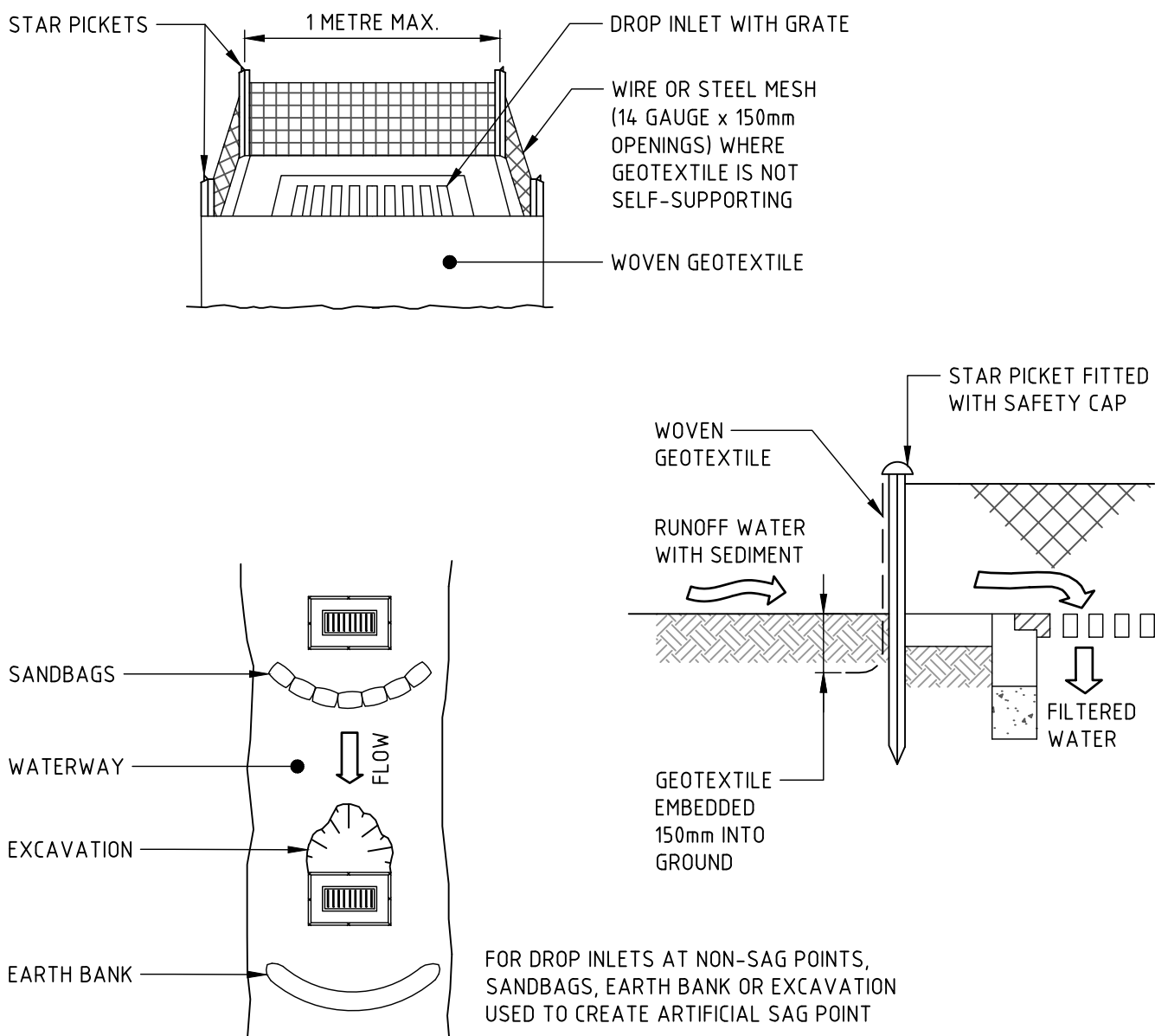
DESIGNED: N. MAICKER  
JOB MANAGER: J. GILLIGAN  
VERIFIER:  
DRAWN: V. CHON



#### CONSTRUCTION NOTES

1. PLACE STOCKPILES MORE THAN 2m (PREFERABLY 5m) FROM EXISTING VEGETATION, CONCENTRATED WATER FLOW, ROADS AND HAZARD AREAS.
2. CONSTRUCT ON THE CONTOUR AS LOW, FLAT, ELONGATED MOUNDS.
3. WHERE THERE IS SUFFICIENT AREA, TOPSOIL STOCKPILES SHALL BE LESS THAN 2m IN HEIGHT.
4. WHERE THEY ARE TO BE IN PLACE FOR MORE THAN 10 DAYS, STABILISE FOLLOWING THE APPROVED ESCP OR SWMP TO REDUCE THE C-FACTOR TO LESS THAN 0.10.
5. CONSTRUCT EARTH BANKS (STANDARD DRAWING 5-5) ON THE UPSLOPE SIDE TO DIVERT WATER AROUND STOCKPILES AND SEDIMENT FENCES (STANDARD DRAWING 6-8) 1 TO 2m DOWNSLOPE.

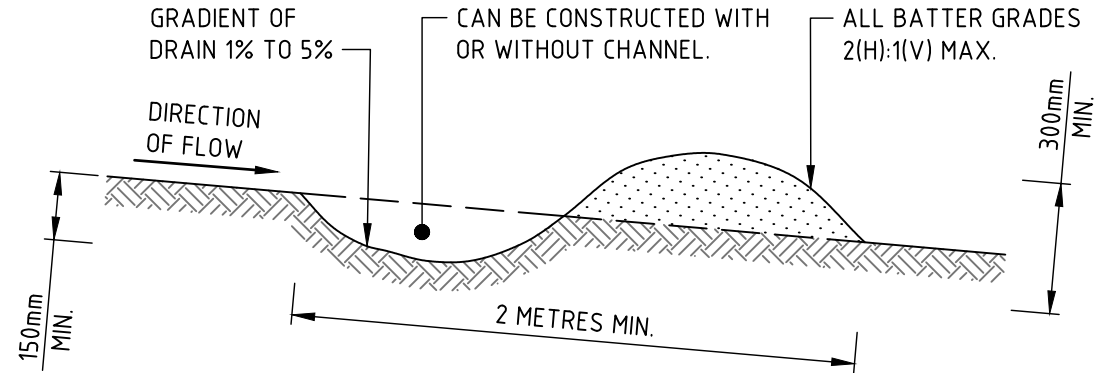
#### STOCKPILE



#### CONSTRUCTION NOTES

1. FABRICATE A SEDIMENT BARRIER MADE FROM GEOTEXTILE OR STRAW BALES.
2. FOLLOW STANDARD DRAWING 6-7 AND STANDARD DRAWING 6-8 FOR INSTALLATION PROCEDURES FOR THE STRAW BALES OR GEOFABRIC. REDUCE THE PICKET SPACING TO 1 METRE CENTRES.
3. IN WATERWAYS, ARTIFICIAL SAG POINTS CAN BE CREATED WITH SANDBAGS OR EARTH BANKS AS SHOWN IN THE DRAWING.
4. DO NOT COVER THE INLET WITH GEOTEXTILE UNLESS THE DESIGN IS ADEQUATE TO ALLOW FOR ALL WATERS TO BYPASS IT.

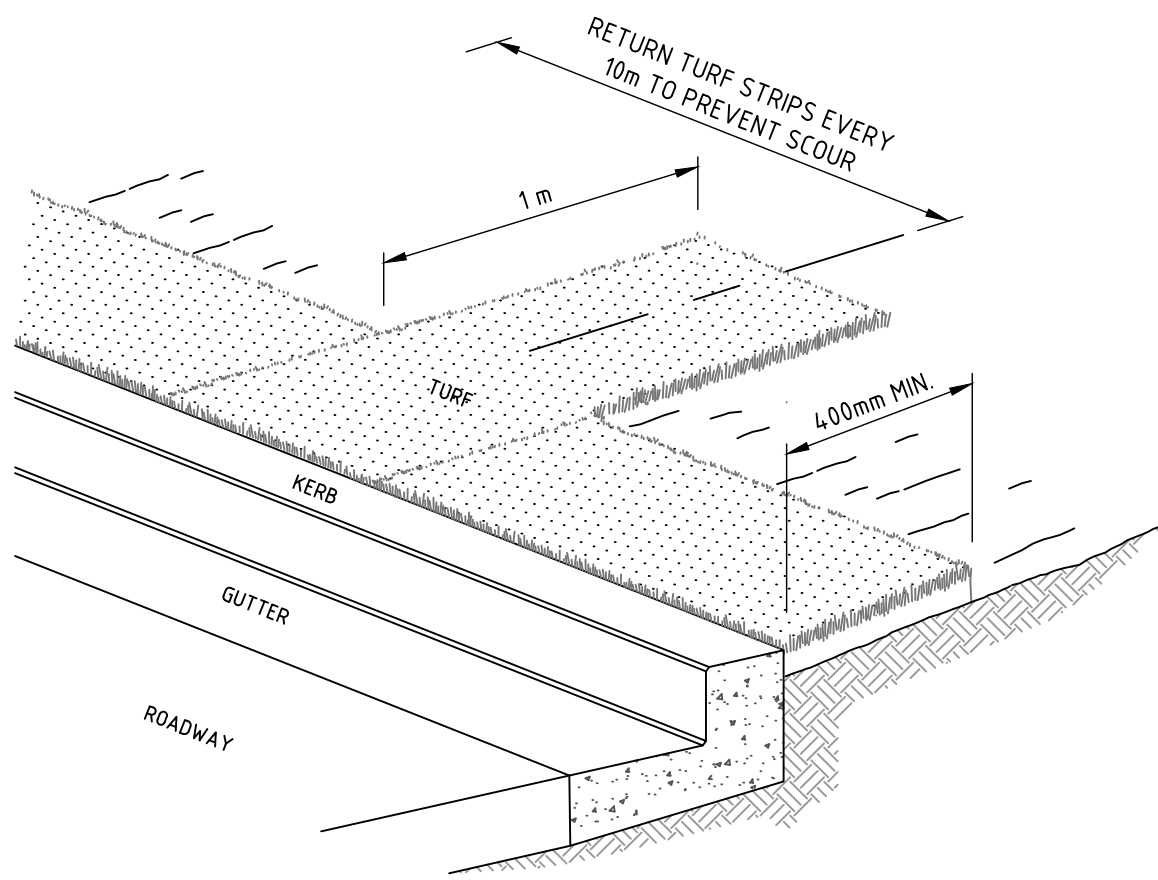
#### GEOTEXTILE INLET FILTER TRAPS



#### CONSTRUCTION NOTES

1. BUILD WITH GRADIENTS BETWEEN 1 AND 5 PERCENT.
2. AVOID REMOVING TREES AND SHRUBS IF POSSIBLE - WORK AROUND THEM.
3. ENSURE THE STRUCTURES ARE FREE OF PROJECTIONS OR OTHER IRREGULARITIES THAT COULD IMPEDE WATER FLOW.
4. BUILD THE DRAINS WITH CIRCULAR, PARABOLIC OR TRAPEZOIDAL CROSS SECTIONS, NOT V SHAPED.
5. ENSURE THE BANKS ARE PROPERLY COMPACTED TO PREVENT FAILURE.
6. COMPLETE PERMANENT OR TEMPORARY STABILISATION WITHIN 10 DAYS OF CONSTRUCTION.

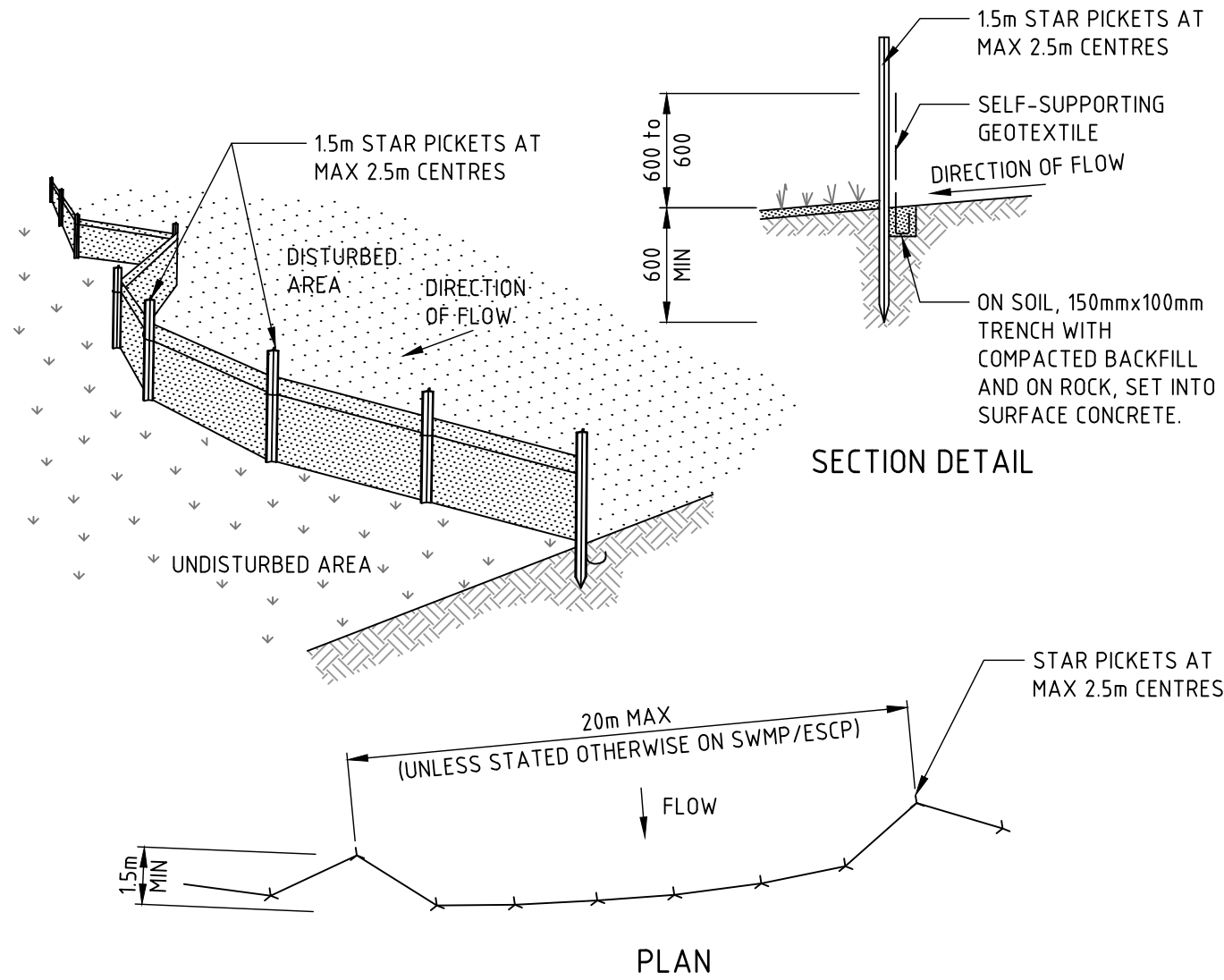
NOTE: ONLY TO BE USED AS TEMPORARY BANK WHERE MAXIMUM UPSLOPE LENGTH IS 80 METRES.  
DRAINAGE SWALE - LOW FLOW



#### CONSTRUCTION NOTES

1. INSTALL A 400mm MINIMUM WIDE ROLL OF TURF ON THE FOOTPATH NEXT TO THE KERB AND AT THE SAME LEVEL AS THE TOP OF THE KERB.
2. LAY 14m LONG TURF STRIPS NORMAL TO THE KERB EVERY 10m.
3. REHABILITATE DISTURBED SOIL BEHIND THE TURF STRIP FOLLOWING THE ESCP/SWMP.

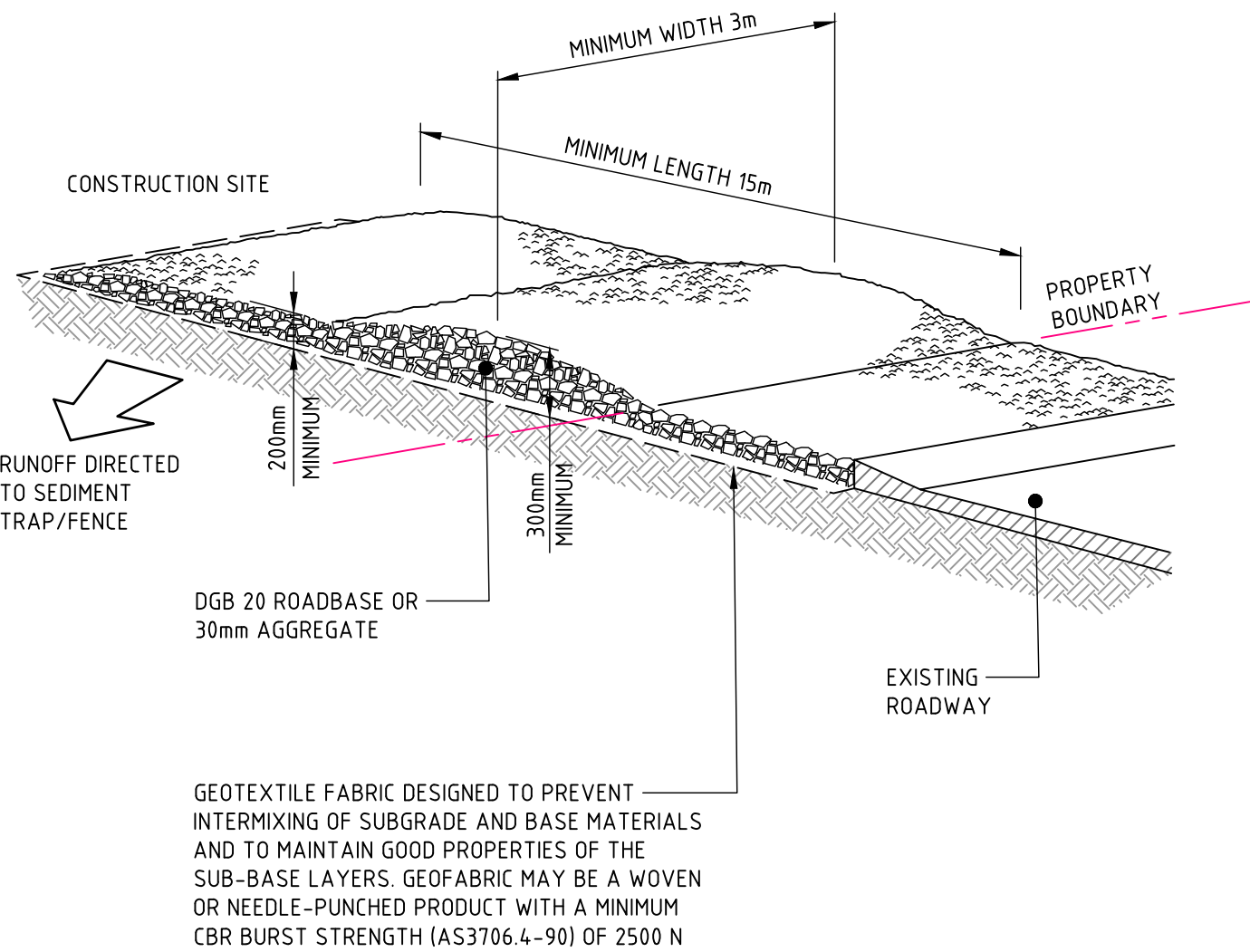
#### KERBSIDE TURF STRIP



#### CONSTRUCTION NOTES

1. CONSTRUCT SEDIMENT FENCES AS CLOSE AS POSSIBLE TO BEING PARALLEL TO THE CONTOURS OF THE SITE, BUT WITH SMALL RETURNS AS SHOWN IN THE DRAWING TO LIMIT THE CATCHMENT AREA OF ANY ONE SECTION. THE CATCHMENT AREA SHOULD BE SMALL ENOUGH TO LIMIT WATER FLOW IF CONCENTRATED AT ONE POINT TO 50 LITRES PER SECOND IN THE DESIGN STORM EVENT, USUALLY THE 10-YEAR EVENT.
2. CUT A 150mm DEEP TRENCH ALONG THE UPSLOPE LINE OF THE FENCE FOR THE BOTTOM OF THE FABRIC TO BE ENTRENCHED.
3. DRIVE 15 METRE LONG STAR PICKETS INTO GROUND AT 2.5 METRE INTERVALS (MAX) AT THE DOWNSLOPE EDGE OF THE TRENCH. ENSURE ANY STAR PICKETS ARE FITTED WITH SAFETY CAPS.
4. FIX SELF-SUPPORTING GEOTEXTILE TO THE UPSLOPE SIDE OF THE POSTS ENSURING IT GOES TO THE BASE OF THE TRENCH. FIX THE GEOTEXTILE WITH WIRE TIES OR AS RECOMMENDED BY THE MANUFACTURER. ONLY USE GEOTEXTILE SPECIFICALLY PRODUCED FOR SEDIMENT FENCING. THE USE OF SHADE CLOTH FOR THIS PURPOSE IS NOT SATISFACTORY.
5. JOIN SECTIONS OF FABRIC AT A SUPPORT POST WITH A 150mm OVERLAP.
6. BACKFILL THE TRENCH OVER THE BASE OF THE FABRIC AND COMPACT IT THOROUGHLY OVER THE GEOTEXTILE.

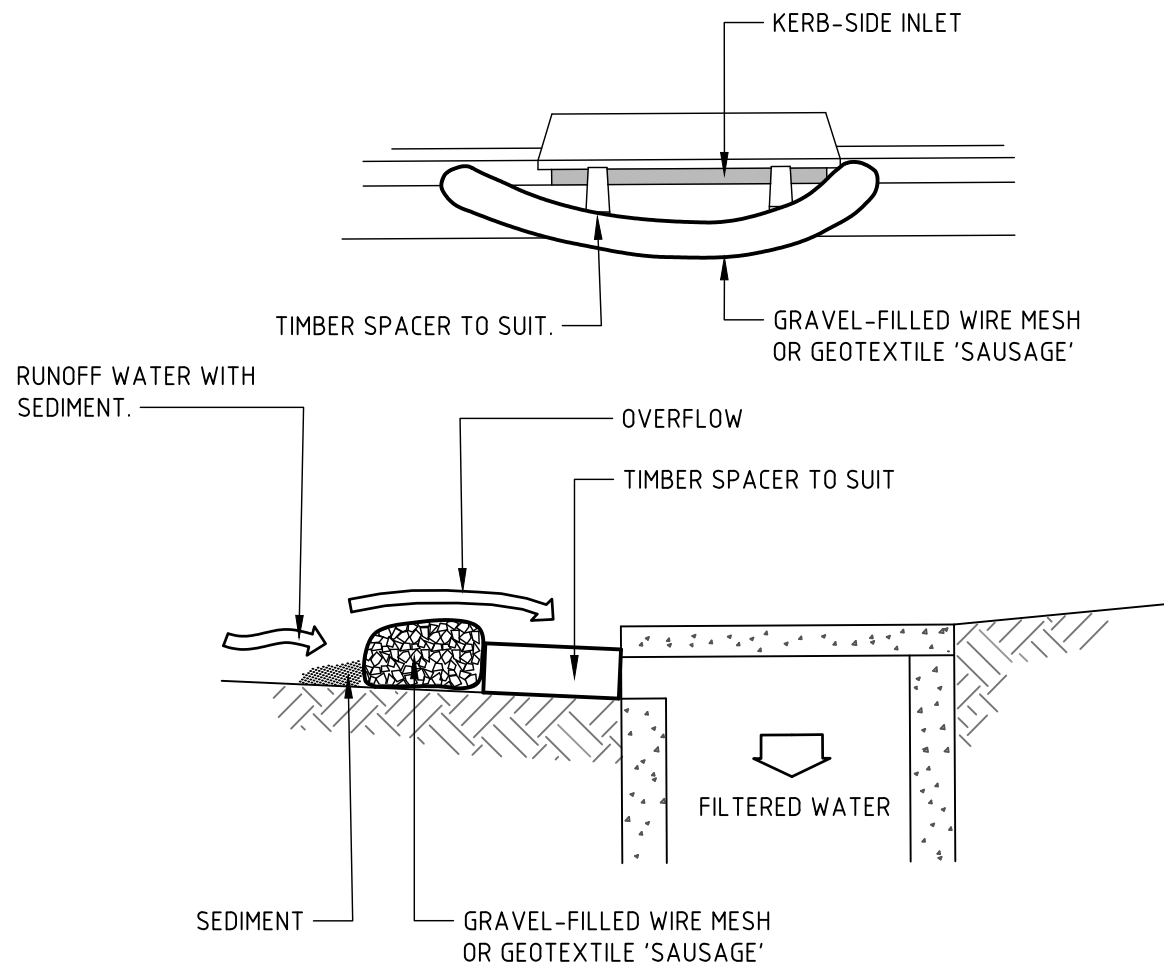
#### SEDIMENT FENCE



#### CONSTRUCTION NOTES

1. STRIP THE TOPSOIL, LEVEL THE SITE AND COMPACT THE SUBGRADE.
2. COVER THE AREA WITH NEEDLE-PUNCHED GEOTEXTILE.
3. CONSTRUCT A 200mm THICK PAD OVER THE GEOTEXTILE USING ROAD BASE OR 30mm AGGREGATE.
4. ENSURE THE STRUCTURE IS AT LEAST 15 METRES LONG OR TO BUILDING ALIGNMENT AND AT LEAST 3 METRES WIDE.
5. WHERE A SEDIMENT FENCE JOINS ONTO THE STABILISED ACCESS, CONSTRUCT A HUMP IN THE STABILISED ACCESS TO DIVERT WATER TO THE SEDIMENT FENCE.

#### STABILISED SITE ACCESS



#### CONSTRUCTION NOTES

1. INSTALL FILTERS TO KERB INLETS ONLY AT SAG POINTS.
2. FABRICATE A SLEEVE MADE FROM GEOTEXTILE OR WIRE MESH LONGER THAN THE LENGTH OF THE INLET PIT AND FILL IT WITH 25mm TO 50mm GRAVEL.
3. FORM AN ELLIPTICAL CROSS-SECTION ABOUT 150mm HIGH x 400mm WIDE.
4. PLACE THE FILTER AT THE OPENING LEAVING AT LEAST A 100mm SPACE BETWEEN IT AND THE KERB INLET. MAINTAIN THE OPENING WITH SPACER BLOCKS.
5. FORM A SEAL WITH THE KERB TO PREVENT SEDIMENT BYPASSING THE FILTER.
6. SANDBAGS FILLED WITH GRAVEL CAN SUBSTITUTE FOR THE MESH OR GEOTEXTILE PROVIDING THEY ARE PLACED SO THAT THEY FIRMLY ABUT EACH OTHER AND SEDIMENT-LADEN WATERS CANNOT PASS BETWEEN.

#### WIRE MESH AND GRAVEL SEDIMENT FILTER



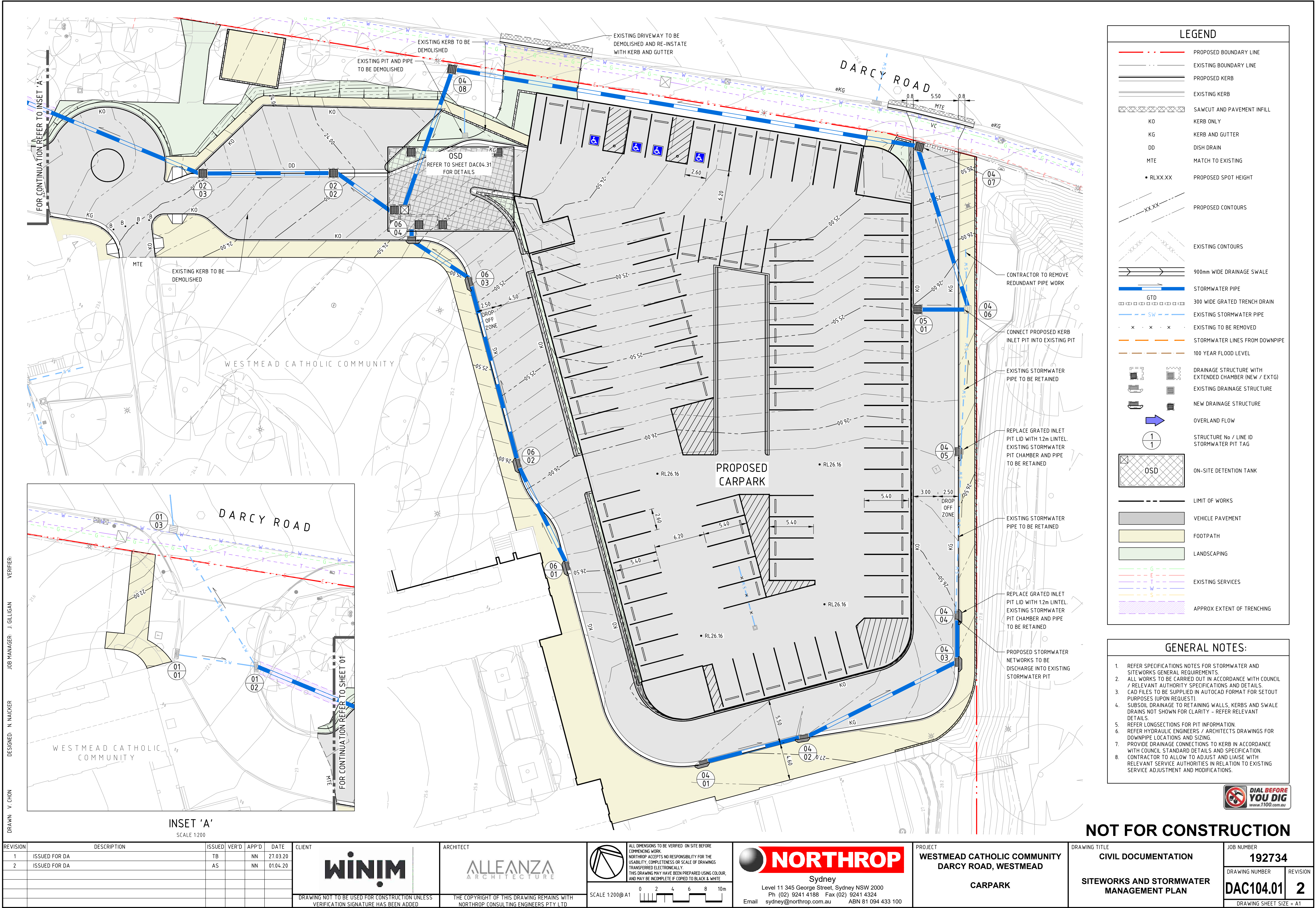
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REVISION	DESCRIPTION	ISSUED	VER'D	APP'D	DATE	CLIENT	ARCHITECT	PROJECT	DRAWING TITLE	JOB NUMBER
1	ISSUED FOR DA	TB		NN	27.03.20	WINIM	ALLEANZA ARCHITECTURE	WESTMEAD CATHOLIC COMMUNITY DARC ROAD, WESTMEAD	CIVIL DOCUMENTATION	192734
								CARPARK	SEDIMENT AND EROSION CONTROL DETAILS	DRAWING NUMBER
										REVISION
										DAC102.11
										1
										DRAWING SHEET SIZE = A1

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Email sydney@northrop.com.au ABN 81 094 433 100









DRAWN: V. CHON      DESIGNED: N. MACKER      JOB MANAGER: J. GILLIGAN      VERIFIER:

PIPE CLASS	UPVC		
PIPE GRADE (%)	7.7%		
PIPE SIZE (mm)	375		
MINIMUM COVER (m)	0.60		

DATUM RL	14.0
FINISHED SURFACE	22.203
NATURAL SURFACE	22.203
PIPE INVERT LEVEL	21.270
DEPTH TO INVERT	0.933
CHAINAGE	0.000

LINE 01

01\01	01\02	01\03	01\04	OSD	02\02	02\03	01\02	03\01	OSD
	-331° LINE 02 37°	25°			-16°	22°	LINE 01		

RRJ2	RRJ2	RRJ2
7.6%	1.0%	1.0%
375	375	375
2.58	2.21	1.68

DATUM RL	15.0
FINISHED SURFACE	24.206
NATURAL SURFACE	24.220
PIPE INVERT LEVEL	21.850
DEPTH TO INVERT	2.356
CHAINAGE	0.000

LINE 02

01\02	03\01	OSD
LINE 01		

UPVC
1.4%
300
0.60

DATUM RL	17.0
FINISHED SURFACE	24.857
NATURAL SURFACE	25.850
PIPE INVERT LEVEL	23.888
DEPTH TO INVERT	0.969
CHAINAGE	0.000

LINE 03

NOT FOR CONSTRUCTION

REVISION	DESCRIPTION	ISSUED	VER'D	APP'D	DATE
1	ISSUED FOR DA	TB		NN	27.03.20

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SCALE 1:250@A1

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PROJECT  
WESTMEAD CATHOLIC COMMUNITY  
DARCY ROAD, WESTMEAD  
CARPARK

DRAWING TITLE  
CIVIL DOCUMENTATION  
STORMWATER LONGITUDINAL  
SECTIONS - SHEET 01

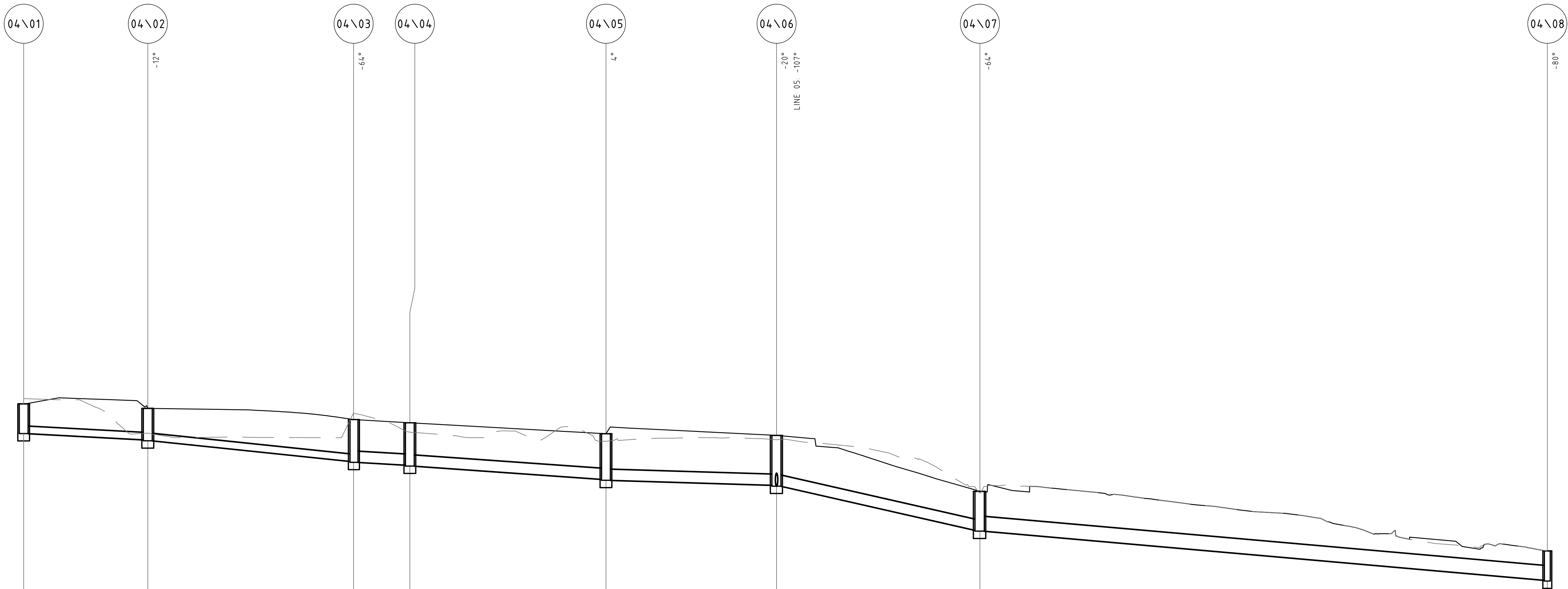
JOB NUMBER  
192734

DRAWING NUMBER  
DAC104.21

REVISION  
1

DRAWING SHEET SIZE = A1






PIPE CLASS	UPVC		UPVC		UPVC		UPVC		UPVC		UPVC		UPVC	
PIPE GRADE (%)	1.0%		2.0%		1.0%		1.3%		0.6%		4.3%		1.7%	
PIPE SIZE (mm)	150		150		225		225		225		225		300	
MINIMUM COVER (m)			0.50		0.64		0.65		0.79		0.66		2.14	

DATUM RL	18.0												
FINISHED SURFACE	26.990		26.798		26.570		26.504		26.280		26.247		23.888
NATURAL SURFACE	25.997		26.292		26.702		26.313		26.127		26.158		23.888
PIPE INVERT LEVEL	26.284		26.157		25.717		25.640		25.350		25.230		23.290
DEPTH TO INVERT	0.606		0.641		0.853		0.864		0.930		1.017		0.598
CHAINAGE	0.000		12.668		33.657		39.401		59.412		76.818		155.460

LINE 04

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1	ISSUED FOR DA			TB		NN	27.03.20	DRAWING NUMBER								REVISION					
								DAC104.22								1					
								DRAWING SHEET SIZE = A1													
DRAWING NOT TO BE USED FOR CONSTRUCTION UNLESS VERIFICATION SIGNATURE HAS BEEN ADDED									THE COPYRIGHT OF THIS DRAWING REMAINS WITH NORTHROP CONSULTING ENGINEERS PTY LTD			SCALE 1:50@A1 SCALE 1:250@A1		0.0 0.5 1.0 1.5 2.0 2.5m 0 2 4 6 8 10 12m		WESTMEAD CATHOLIC COMMUNITY DARCY ROAD, WESTMEAD  CARPARK		CIVIL DOCUMENTATION  STORMWATER LONGITUDINAL SECTIONS - SHEET 02			





VERIFIER:

JOB MANAGER: J. GILLIGAN

DESIGNED: N. MAICKER

DRAWN: V. CHON

PIPE CLASS  
PIPE GRADE (%)  
PIPE SIZE (mm)  
MINIMUM COVER (m)

DATUM RL	16.0	
FINISHED SURFACE	23.888	24.208
NATURAL SURFACE	23.888	24.246
PIPE INVERT LEVEL	23.290 23.273	23.210 23.200 23.600
DEPTH TO INVERT	0.598 0.615	1.008 0.608
CHAINAGE	155.460	169.984

LINE 04

RRJ2  
0.8%  
225  
0.60

18.0	26.016	26.154	25.281	25.230	25.210
26.247	26.158	26.247	1.037	1.017	6.139

LINE 05

UPVC  
5.2%  
150  
0.60

UPVC  
4.0%  
150  
0.60

UPVC  
4.3%  
225  
0.65

UPVC  
1.0%  
300  
0.26

18.0	26.454	25.843	24.791	24.486	24.208
26.283	25.765	25.933	24.849	24.528	24.246
25.689	25.043	25.023	24.034	23.736	23.660
0.689	0.800	0.620	0.737	0.750	0.546
13.921	38.296	45.265	52.495	23.200	23.600

LINE 06

REVISION	DESCRIPTION	ISSUED	VER'D	APP'D	DATE
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PROJECT  
WESTMEAD CATHOLIC COMMUNITY  
DARCY ROAD, WESTMEAD  
CARPARK

DRAWING TITLE  
CIVIL DOCUMENTATION  
STORMWATER LONGITUDINAL  
SECTIONS - SHEET 03

JOB NUMBER  
192734

DRAWING NUMBER  
DAC104.23

REVISION  
1

DRAWING SHEET SIZE = A1

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DRAWN: V. CHON  
DESIGNED: N. MACKER  
JOB MANAGER: J. GILLIGAN  
VERIFIER:



LEGEND

PROPOSED BOUNDARY LINE

EXISTING BOUNDARY LINE

EXISTING CONTOURS

PROPOSED CONTOURS

PROPOSED CATCHMENT BOUNDARY

EXISTING CATCHMENT BOUNDARY

OVERLAND FLOW

XXXX

X.XXXha

STORMWATER PIT TAG  
CATCHMENT AREA (ha)

EXISTING DRAINAGE STRUCTURE

NEW DRAINAGE STRUCTURE

GENERAL NOTES:

1. REFER TO CIVIL DRAWINGS/ STORMWATER REPORT / DRAINS FILE FOR HYDROLOGICAL AND HYDRAULIC CALCULATIONS. CATCHMENTS INDICATED AND THEIR CORRESPONDING PIT TAGS ARE THOSE WHICH HAVE BEEN USED FOR MODELING PURPOSES.

2. REFER HYDRAULIC ENGINEERS CALCULATIONS FOR ROOF DRAINAGE.



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REVISION	DESCRIPTION	ISSUED	VER'D	APP'D	DATE
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WINIM

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ALLEANZA  
ARCHITECTURE

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SCALE 1:500@A1

0 5 10 15 20 25m

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PROJECT

WESTMEAD CATHOLIC COMMUNITY  
DARCY ROAD, WESTMEAD

CARPARK

DRAWING TITLE

CIVIL DOCUMENTATION

STORMWATER CATCHMENT PLAN

JOB NUMBER

192734

DRAWING NUMBER

DAC104.41

REVISION

1

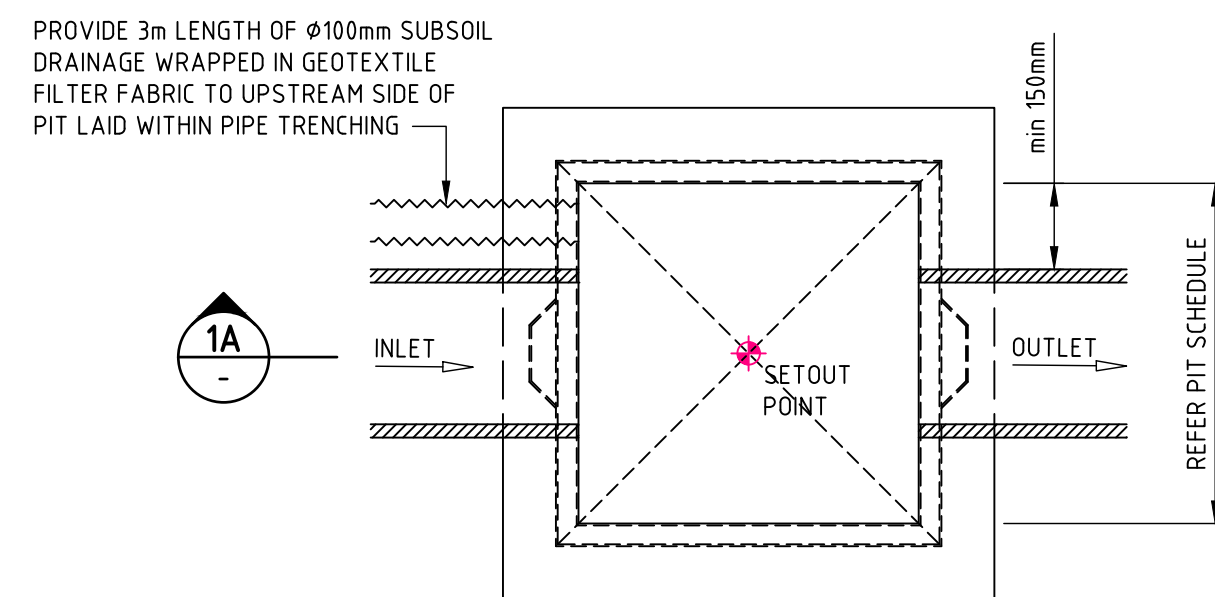
DRAWING SHEET SIZE = A1

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Date: 15.02.2016 11:24 AM

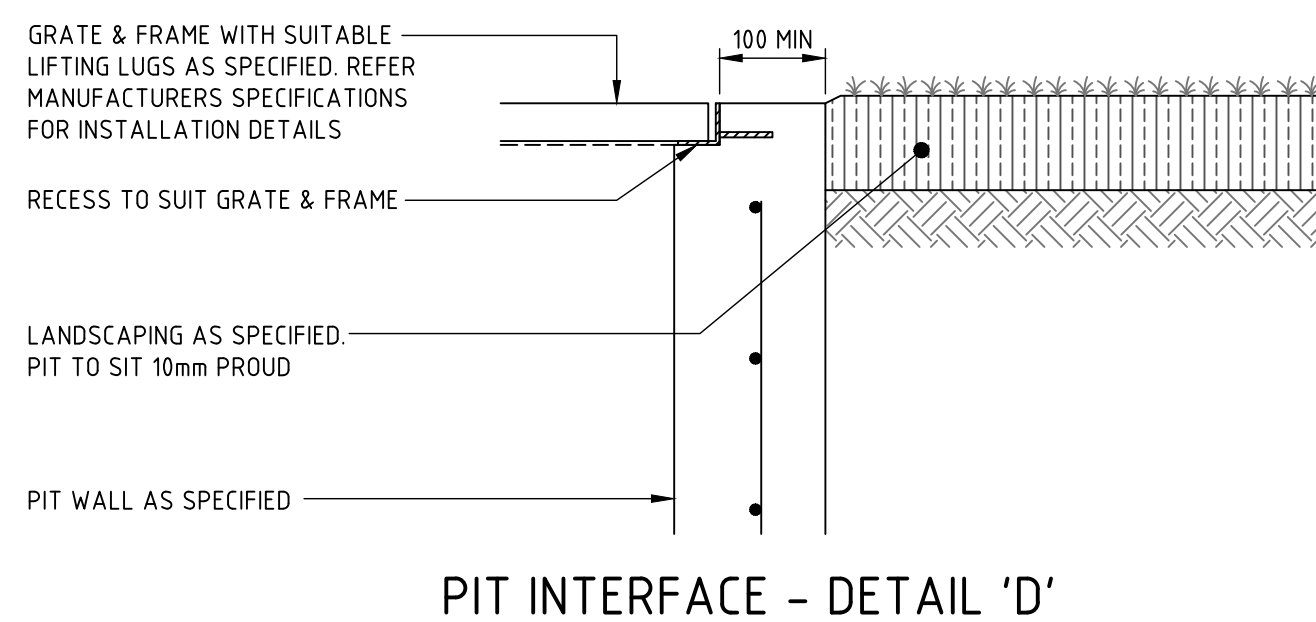




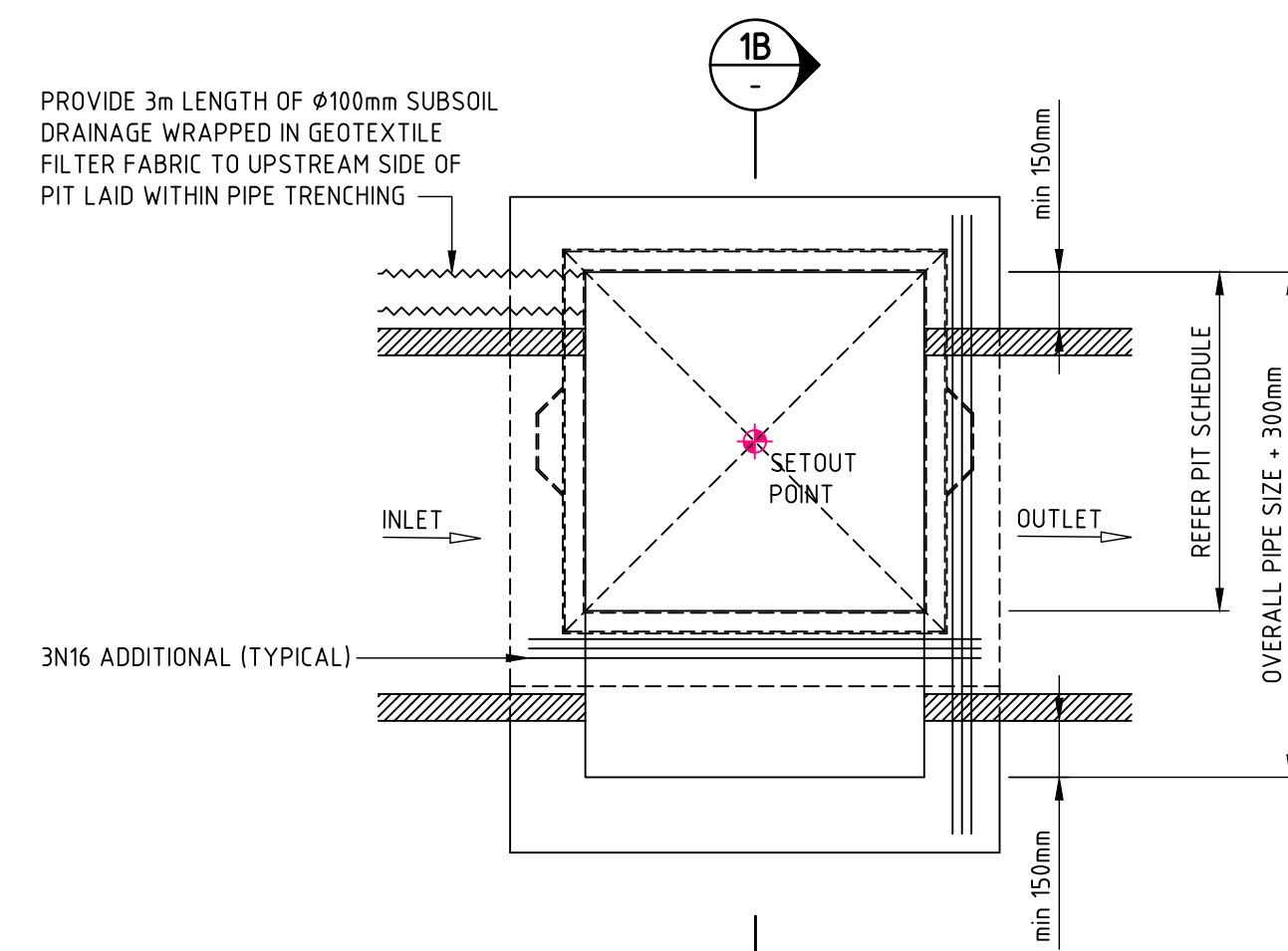
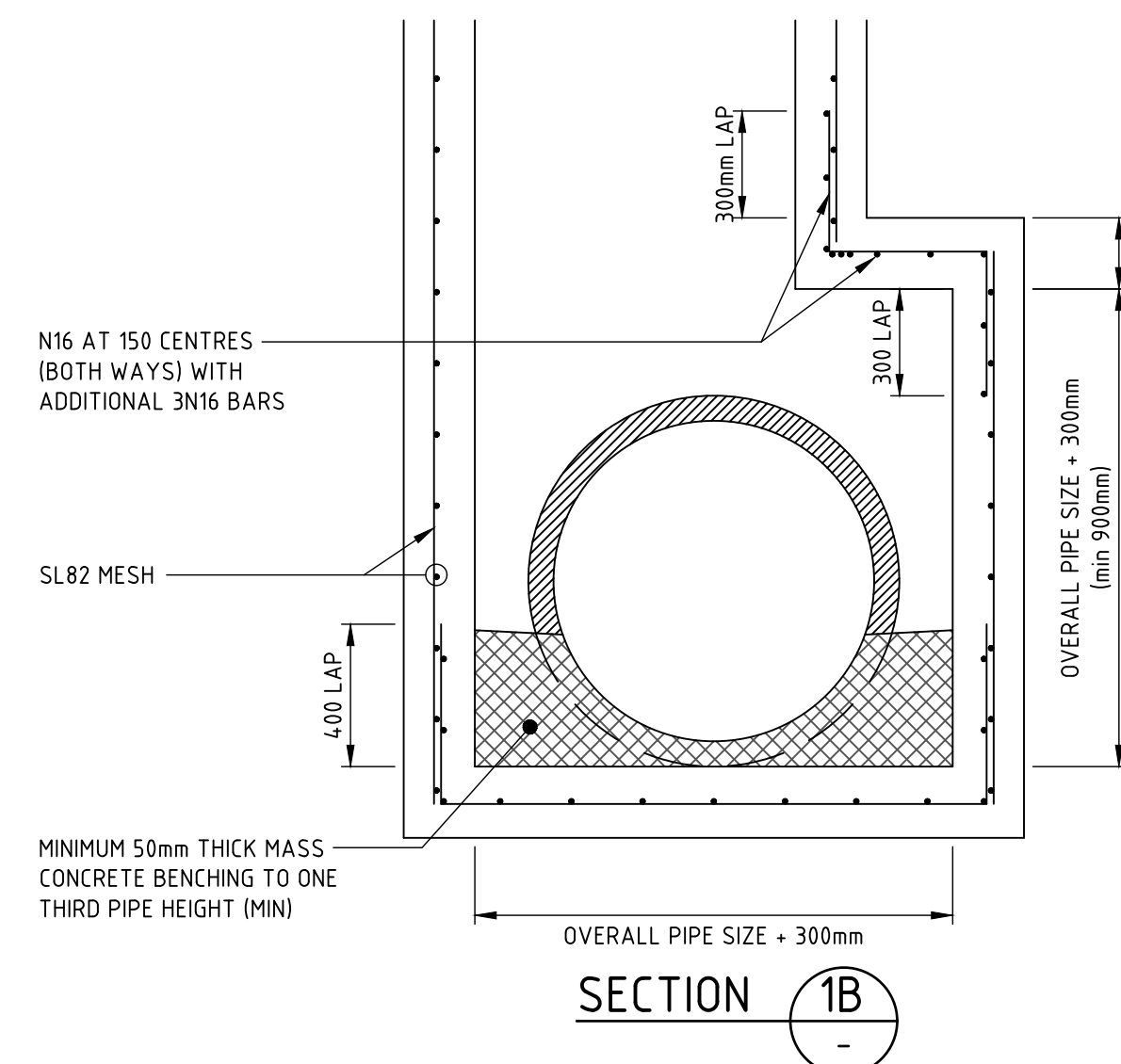




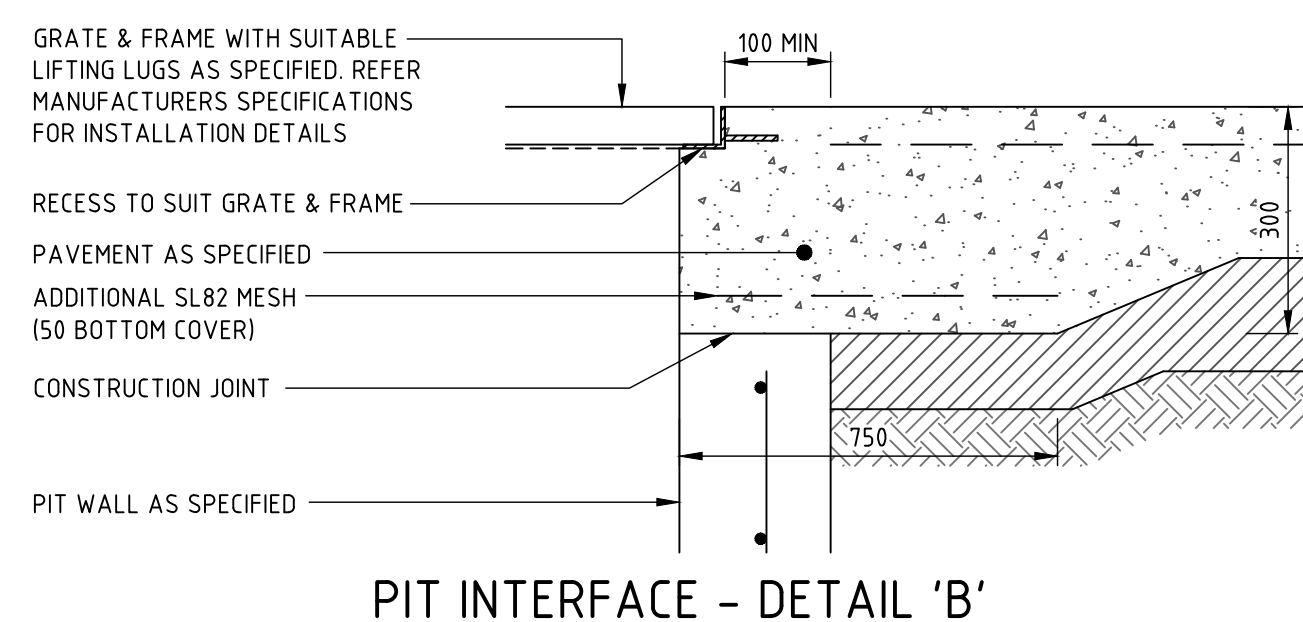
**PLAN**  
**SURFACE INLET 'SIP' / JUNCTION PIT 'JP'**  
PIT STRUCTURE TO BE 200mm THICK UNLESS SHOWN OTHERWISE. DRILL AND EPOXY  
PLASTIC PROPRIETARY STEP IRONS IN ACCORDANCE WITH AUSTRALIAN STANDARDS AND  
MANUFACTURERS SPECIFICATIONS (PITS > 1000mm DEPTH).  
REFER PIT INTERFACE DETAIL 'F' FOR CORNER REINFORCEMENT



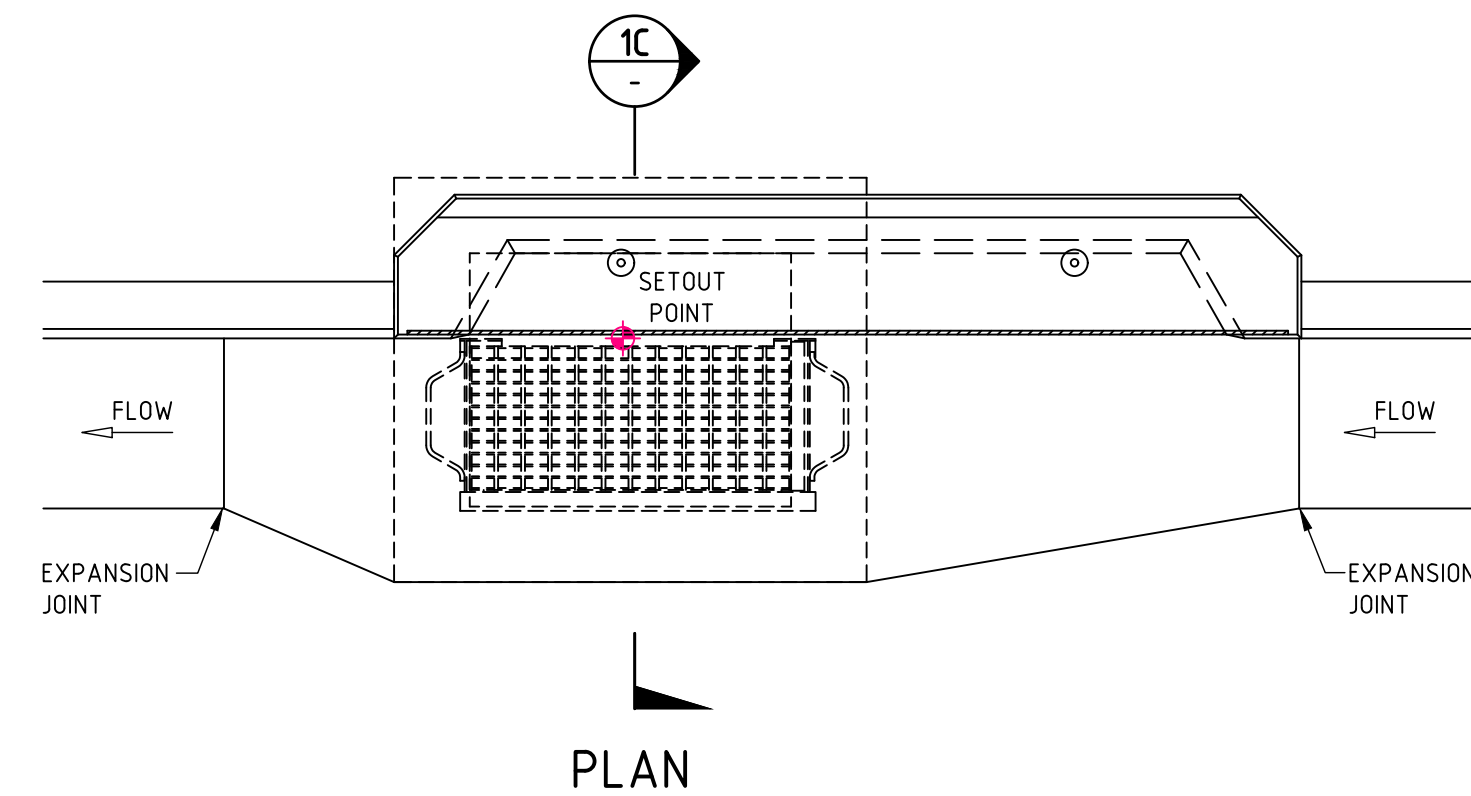
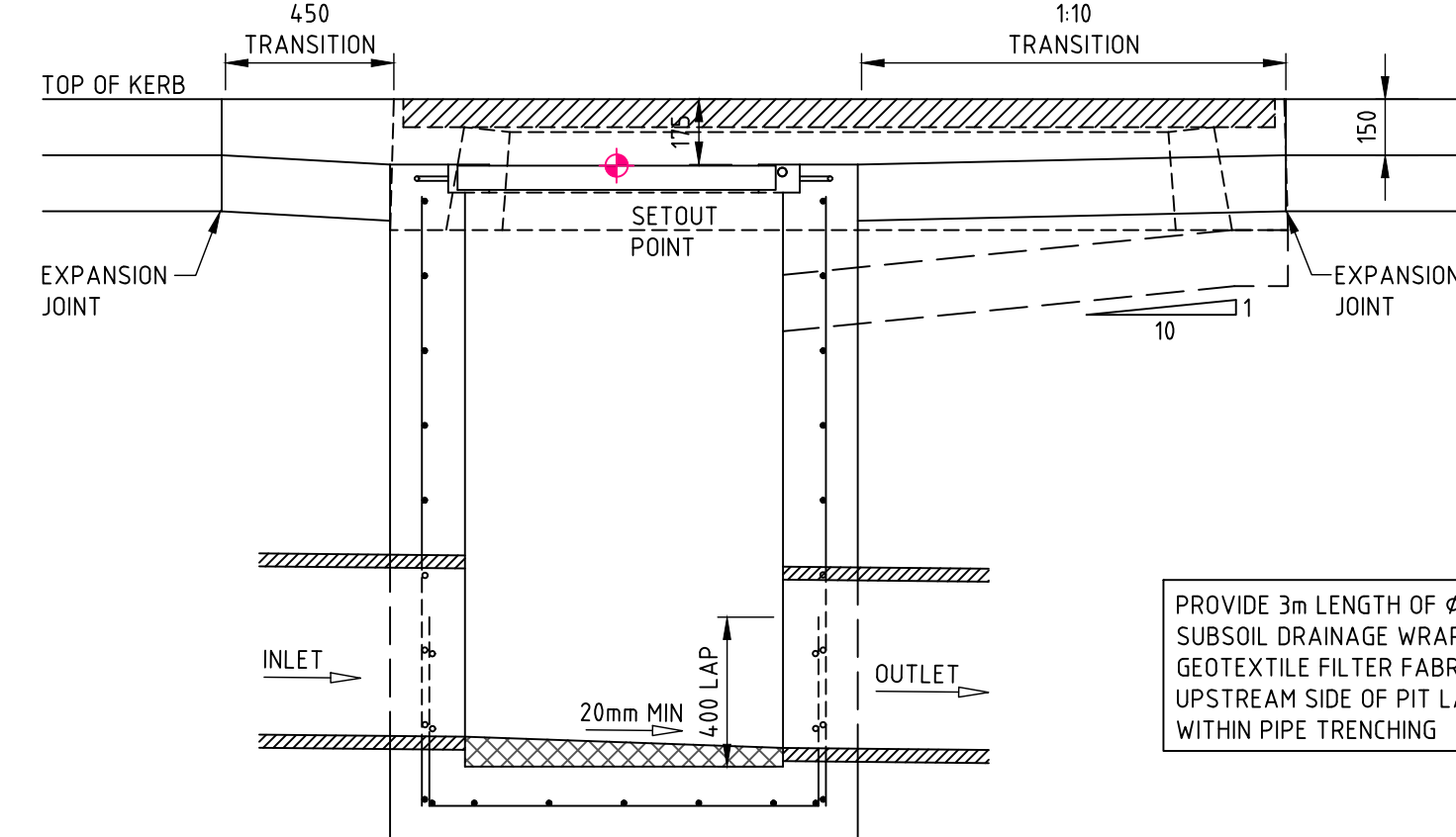
### PIT INTERFACE - DETAIL 'D'



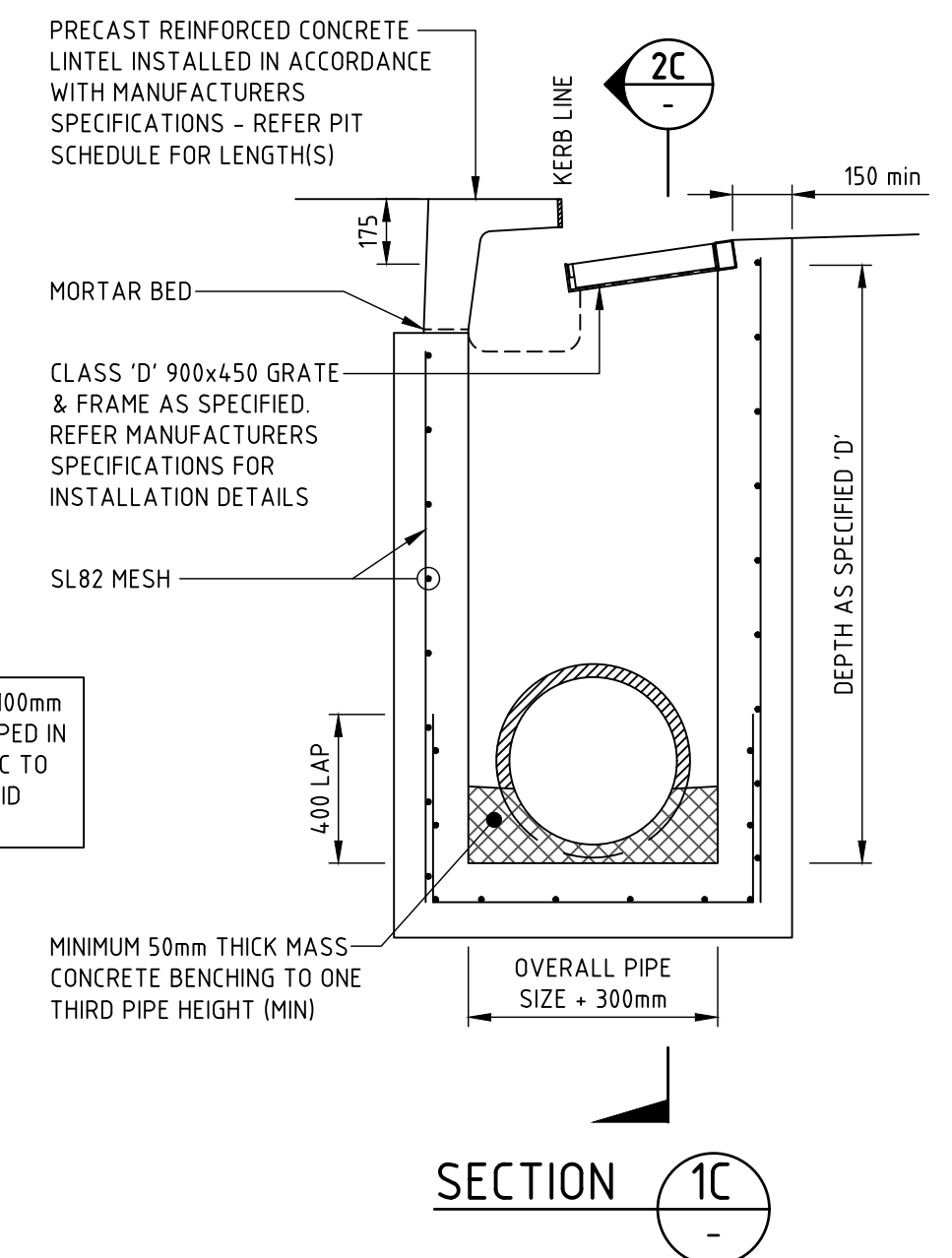
**PLAN**  
**DRAINAGE PIT – EXTENDED CHAMBER**  
PIT STRUCTURE TO BE 200mm THICK UNLESS SHOWN OTHERWISE. DRILL AND EPOXY  
PLASTIC PROPRIETARY STEEL IRONS IN ACCORDANCE WITH AUSTRALIAN STANDARDS AND  
MANUFACTURERS SPECIFICATIONS (PITS = 1000mm DEPTH).  
REFER PIT INTERFACE DETAIL 'F' FOR CORNER REINFORCEMENT



PIT INTERFACE - DETAIL 'B'

SECTION 2C  
-

KERB INLET PIT 'KIP'



SECTION 1C

FOR SAG PITS, ENSURE PIT LINTEL IS LOCATED  
CENTRAL TO PIT GRATE AND FRAME AND 1:10 CHUTE  
IS CONSTRUCTED TO BOTH SIDES OF PIT

REFER EXTENDED CHAMBER PIT DETAIL FOR  
PIPEWORK IN EXCESS OF  $\phi 450$  AND WHERE REQUIRED

PRECAST REINFORCED CONCRETE —  
LINTEL INSTALLED IN ACCORDANCE  
WITH MANUFACTURERS  
SPECIFICATIONS - REFER PIT  
SCHEDULE FOR LENGTH(S)

MORTAR BED \_\_\_\_\_

CLASS 'D' 900x450 GRATE  
& FRAME AS SPECIFIED.  
REFER MANUFACTURERS  
SPECIFICATIONS FOR  
INSTALLATION DETAILS

SL82 MESH ———

MINIMUM 50mm THICK MASS  
CONCRETE BENCHING TO  
THIRD PIPE HEIGHT (MIN)

PROVIDE 3m LENGTH OF  $\phi 100\text{mm}$   
SUBSOIL DRAINAGE WRAPPED IN  
GEOTEXTILE FILTER FABRIC TO  
UPSTREAM SIDE OF PIT LAID  
WITHIN PIPE TRENCHING

PIT STRUCTURE TO BE 200mm THICK UNLESS SHOWN OTHERWISE. DRILL AND EPOXY PLASTIC PROPRIETARY STEP IRONS IN ACCORDANCE WITH AUSTRALIAN STANDARDS AND MANUFACTURERS SPECIFICATIONS (PITS > 1000mm DEPTH).  
REFER PIT INTERFACE DETAIL 'F' FOR CORNER REINFORCEMENT