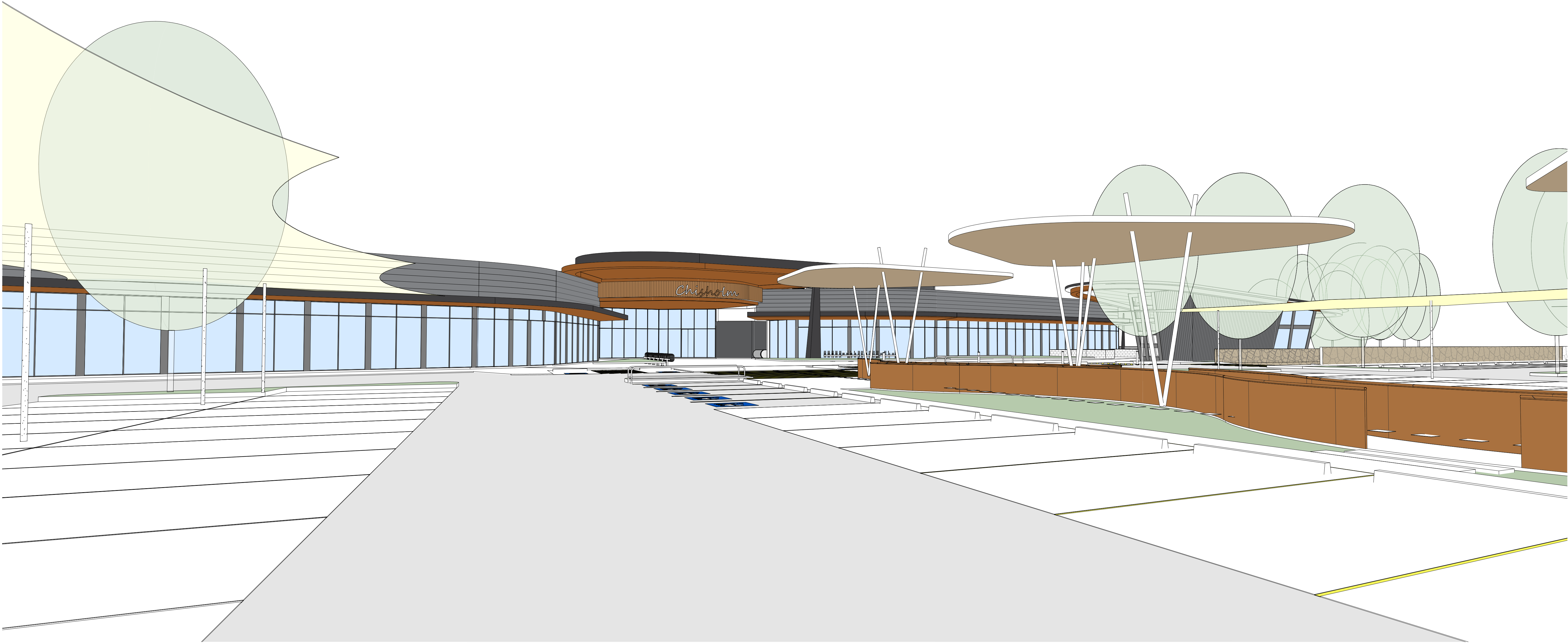


CHISHOLM SHOPPING CENTRE

DEVELOPMENT APPLICATION

HERITAGE DRIVE
CHISHOLM, NSW 2322 , AUSTRALIA



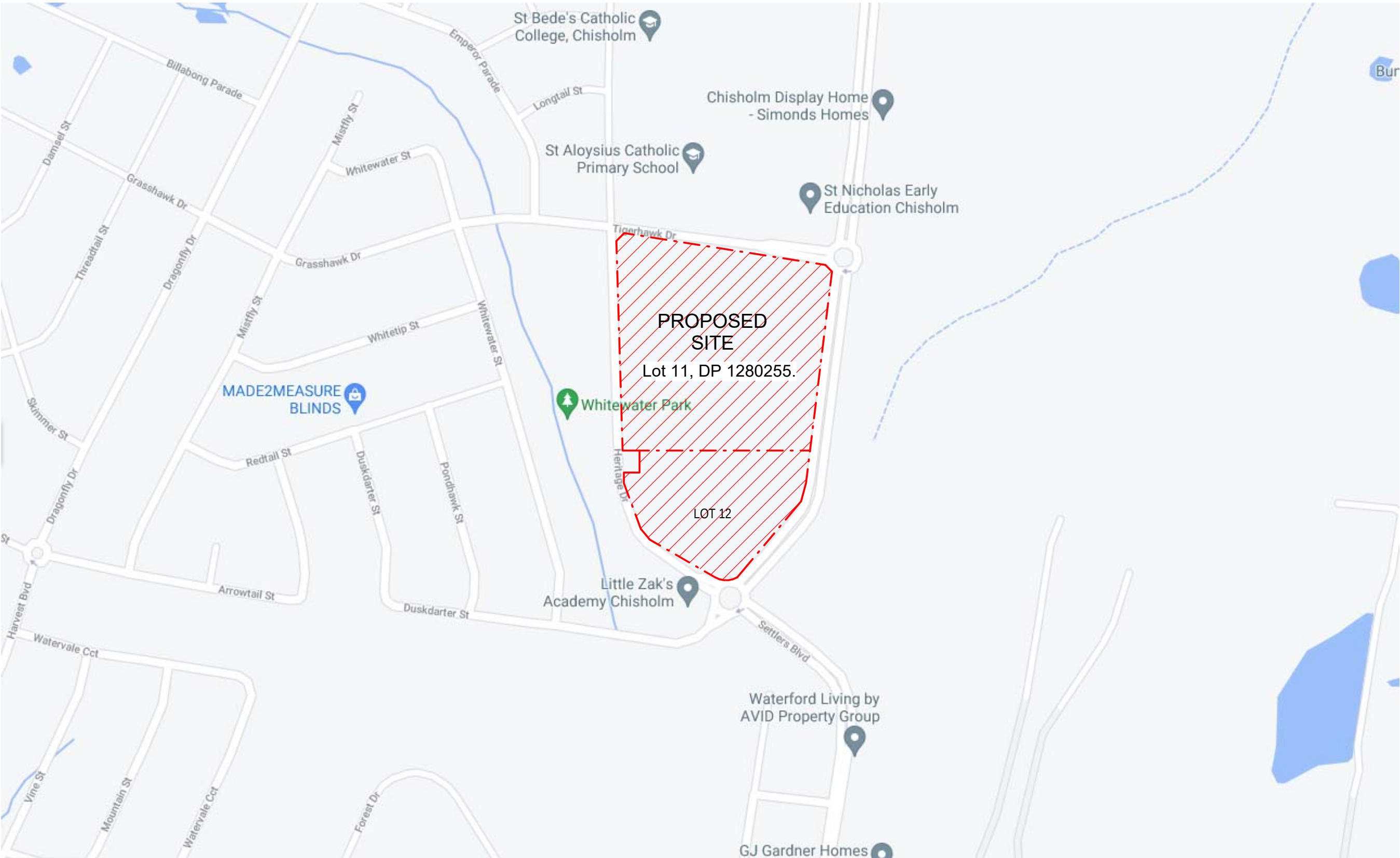
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DRAWING NO.	SHEET NAME
A00.01	COVER PAGE
A00.02	TITLE SHEET, LOCATION PLAN & DRAWING LIST
A00.05	SITE ANALYSIS
A00.20	GLAR & CARPARKING ANALYSIS
A00.21	SOLAR STUDY
A02.01	PROPOSED SITE PLAN
A02.02	PROPOSED BASEMENT FLOOR PLAN
A02.03	PROPOSED GROUND FLOOR PLAN
A02.06	PROPOSED CHILDCARE FLOOR & ROOF PLAN
A02.07	PROPOSED ROOF PLAN
A09.01	NORTH ELEVATION
A09.02	SOUTH ELEVATION
A09.03	EAST ELEVATION
A09.04	WEST ELEVATION
A09.05	TIGERHAWK DRIVE STREET ELEVATIONS
A09.06	CHILDCARE ELEVATIONS
A11.01	SECTION A
A11.02	SECTION B, C, D
A11.03	SECTION E
A11.04	SECTION F
A11.05	SECTION G
A11.06	SECTIONS - CHILDCARE
A90.01	MASTER LEASE PLAN - GROUND FLOOR
A100.80	3D-PERSPECTIVE VIEWS



SATELLITE AERIAL



LOCATION PLAN

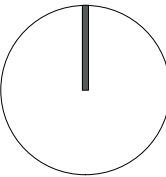


CHISHOLM SHOPPING CENTRE
HERITAGE DRIVE
CHISHOLM, NSW 2322 , AUSTRALIA

ISSUE	DATE	DESCRIPTION
D	10.08.22	DA ISSUE
C	10.06.22	DA ISSUE
B	08.03.22	DA ISSUE

TITLE SHEET, LOCATION PLAN & DRAWING LIST

A00.02 DA - D
1:NTS @ A1
1:NTS @ A3

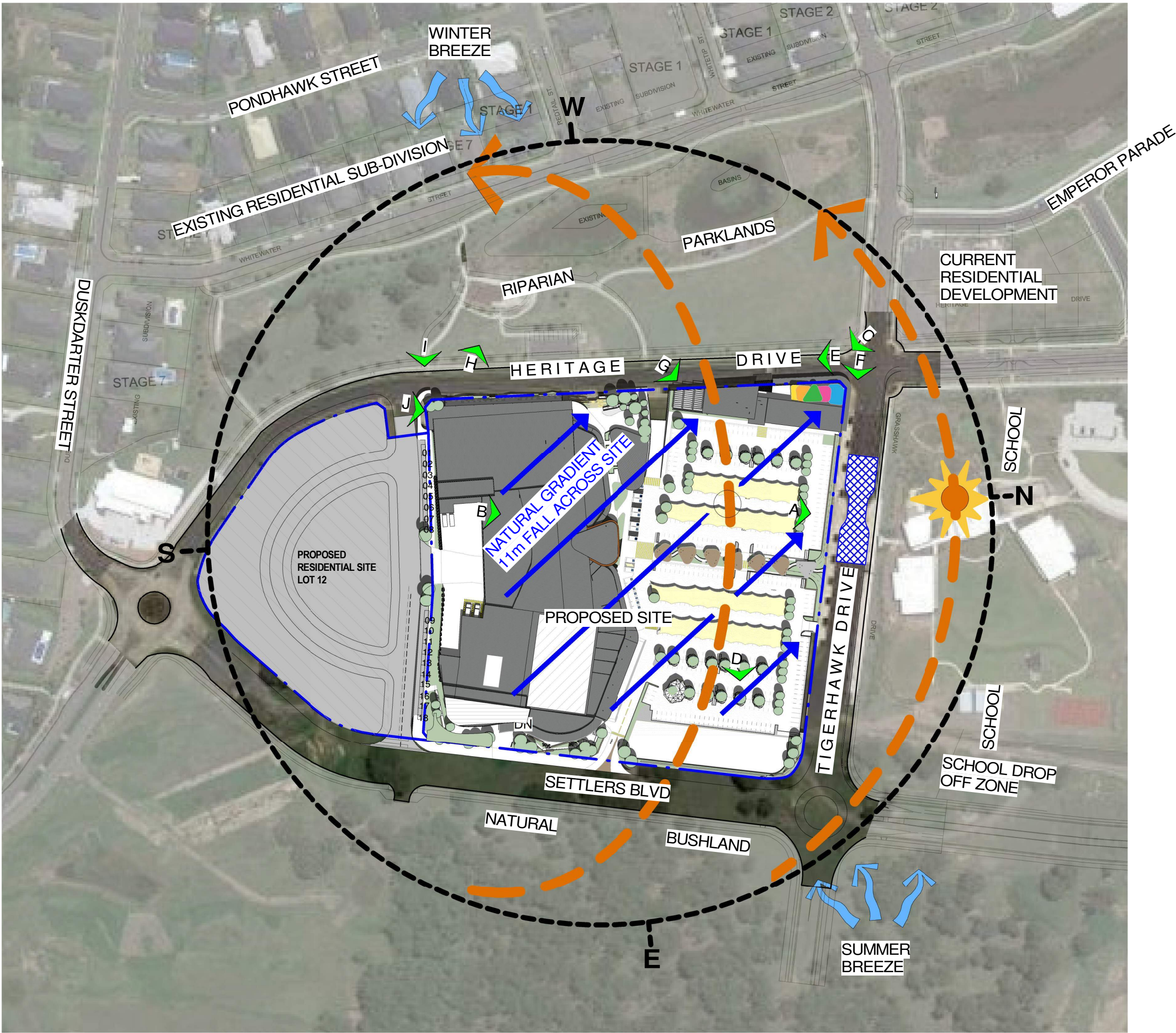


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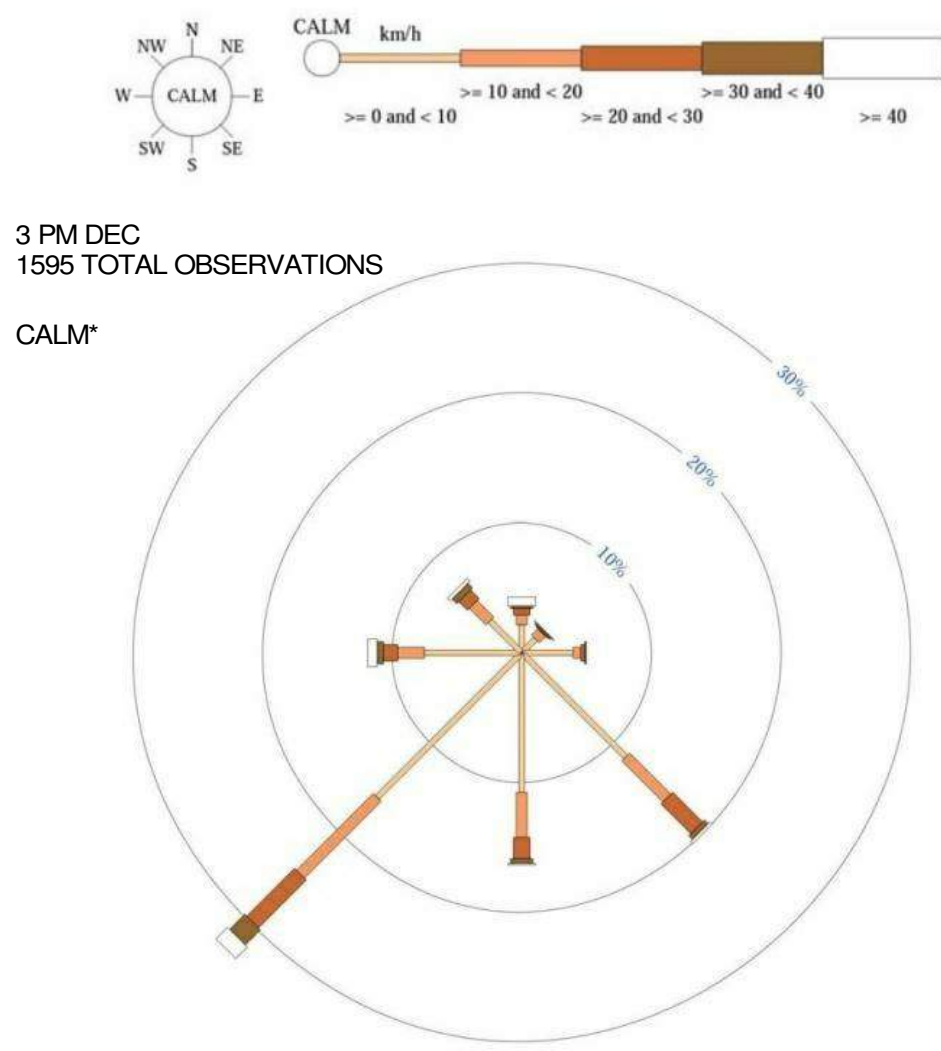
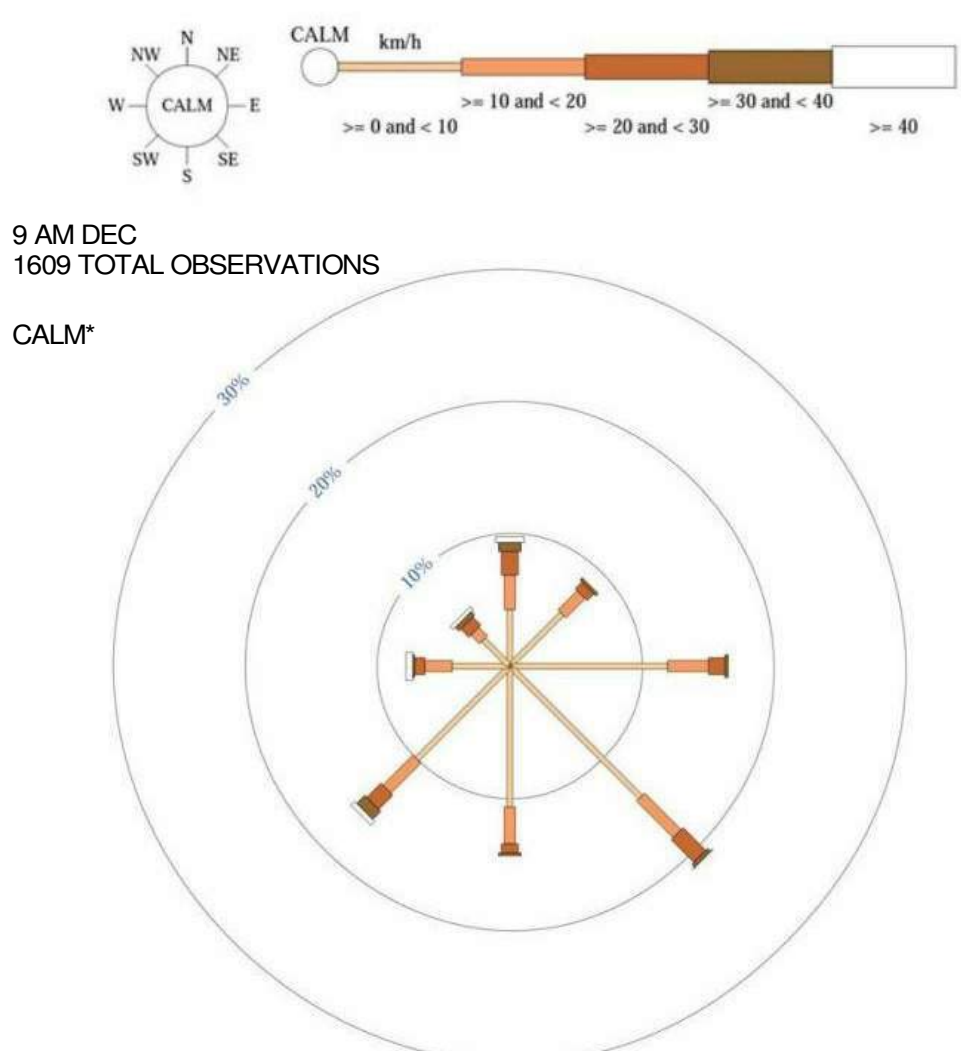
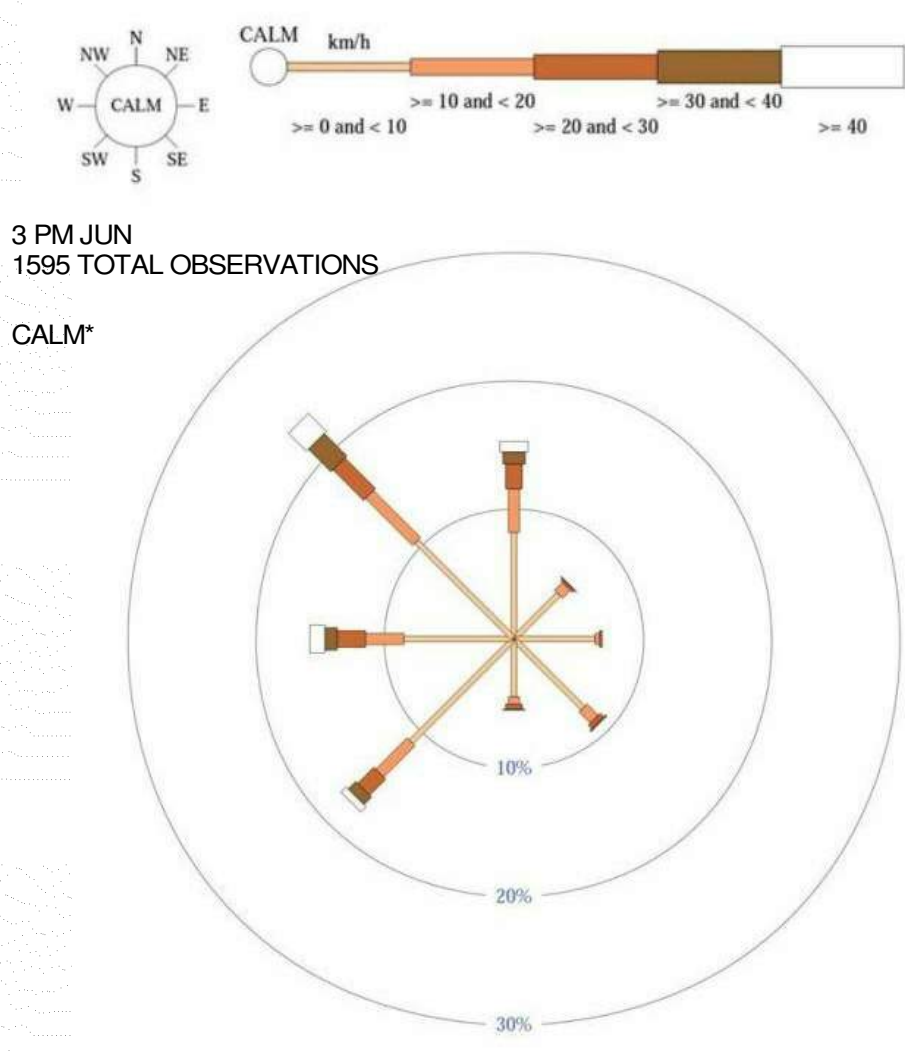
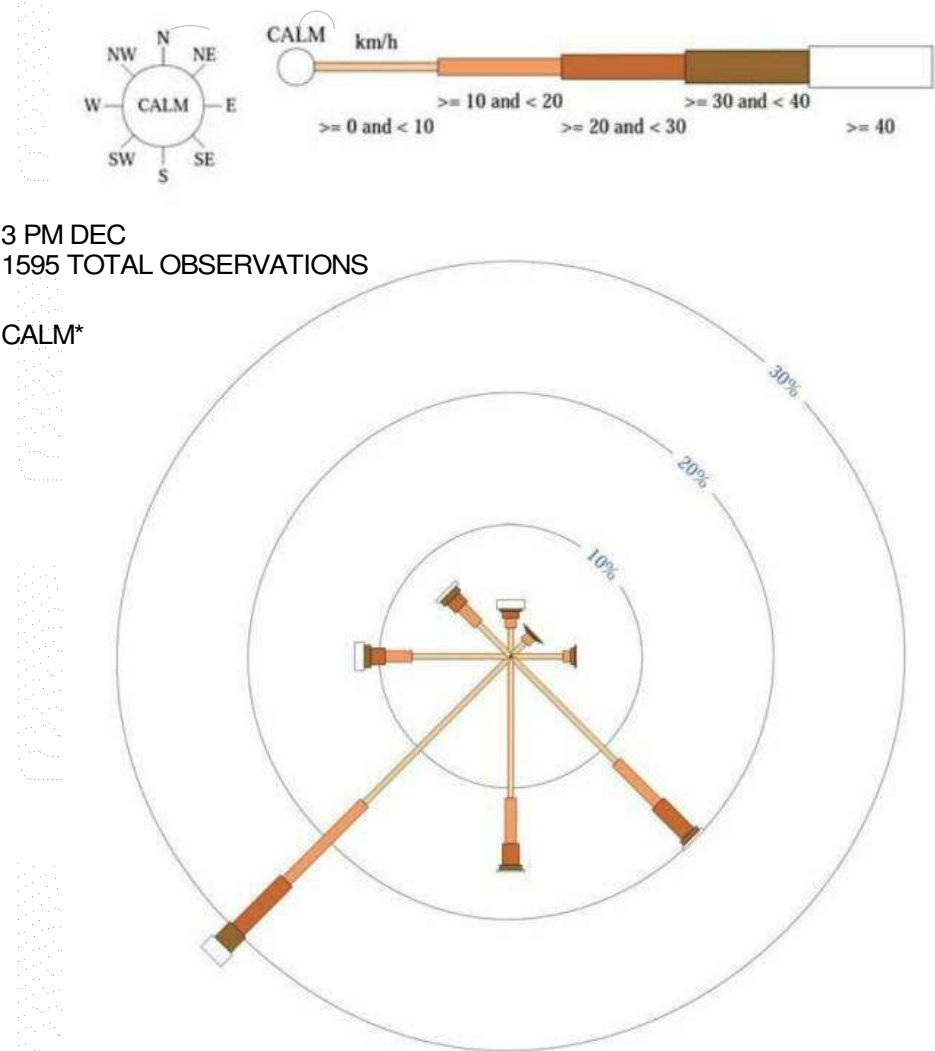


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SITE ANALYSIS



WIND ROSE - MAITLAND VISITORS CENTRE
READING TAKEN FROM CLOSEST STATION AT MAITLAND VISITORS CENTRE



CONTEXT PHOTOS



A) NORTHERN VIEW FROM PROPOSED SITE



B) NORTHERN VIEW FROM SOUTH OF PROPOSED SITE



C) SOUTH EAST VIEW FROM CORNER OF TIGERHAWK AND HERITAGE DRIVE



D) EASTERN VIEW FROM PROPOSED SITE OF NATURAL BUSHLAND



E) SOUTH EAST VIEW FROM CORNER OF TIGERHAWK AND HERITAGE DRIVE



F) EASTERN VIEW FROM CORNER OF TIGERHAWK AND HERITAGE DRIVE



G) NORTH EASTERN VIEW FROM HERITAGE DRIVE



H) NORTH WESTERN VIEW OF RIPARIAN PARKLANDS FROM HERITAGE DRIVE



I) EASTERN VIEW OF PROPOSED SITE FROM HERITAGE DRIVE



J) NORTHERN VIEW OF PROPOSED SITE FROM THE PROPOSED DRIVEWAY

REVELOP

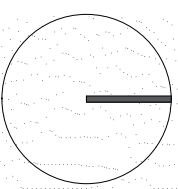
ISSUE	DATE	DESCRIPTION
B	10.06.22	DA ISSUE
A	13.12.21	DA ISSUE

SITE ANALYSIS

A00.05

DA - B

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1:NTS @ A3

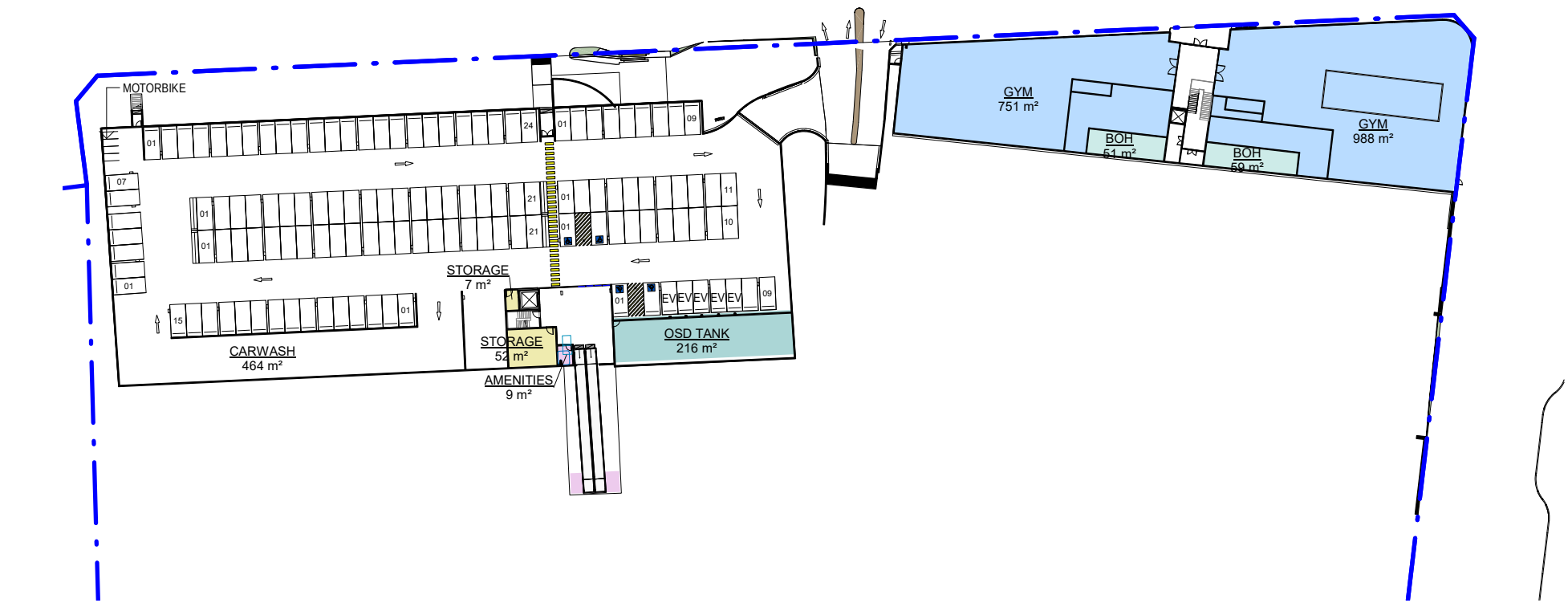


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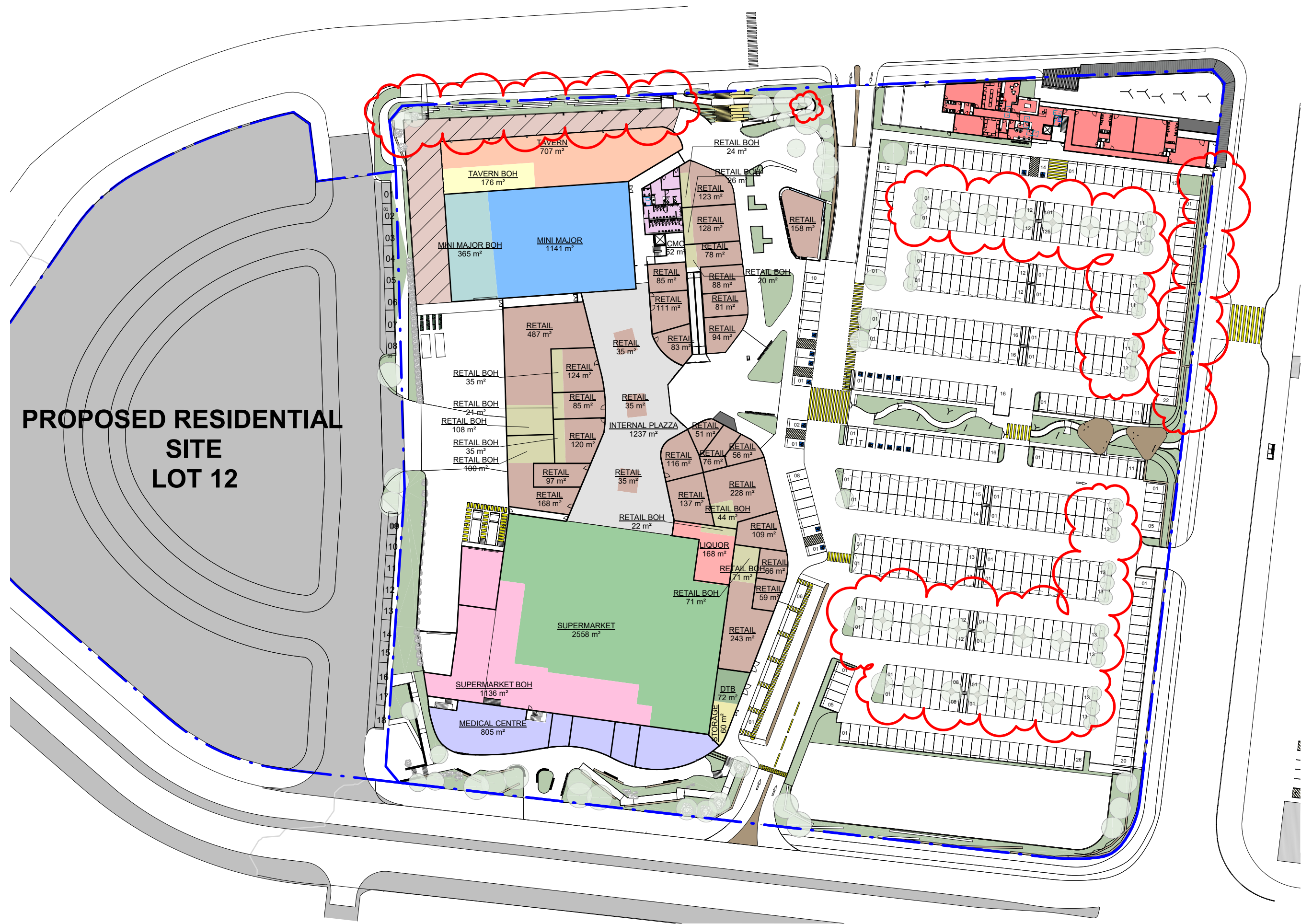
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1 BASEMENT
1 : 1000



2 GROUND FLOOR
1 : 1000

- AMENITIES
- BOH
- CARWASH
- CHILDCARE
- DTB
- GYM
- INTERNAL PLAZZA
- LIQUOR
- MEDICAL CENTRE
- MEDICARE MEZZANINE
- MINI MAJOR
- MINI MAJOR BOH
- OSD TANK
- RETAIL
- RETAIL BOH
- SERVICE
- STORAGE
- SUPERMARKET
- SUPERMARKET BOH
- TAVERN
- TAVERN BOH

SITE AREA	43,940 m²
PROPOSED FSR	1:0.29
REQUIRED FSR	1:0.30

CAR / BICYCLE PARKING SCHEDULE

PROPOSED BASEMENT LEVEL	
CARPARKING 5400X 2600	118
DISABLED 5400X 2600	4
EV PARKING 5400X 2600	5
TOTAL	127

PROPOSED GROUND LEVEL	
CARPARKING 5400X 2600	514
DISABLED 5400X 2600	10
PARENTS 5400X 2700	10
PARALLEL	6
MINI BUS BAY	1

TOTAL 541

TOTAL CAR PARKING SPACES 668

PROPOSED GROUND LEVEL	
BICYCLE RACK BAY	78

Area Schedule	
Name	Area

1		BOH AREA
LIQUOR	165 m²	
MINI MAJOR	1140 m²	365 m²
RETAIL	3490 m²	400 m²
SUPERMARKET	2555 m²	1135 m²
TAVERN	705 m²	175 m²
1: 28	8060 m²	2075 m²
2		
CHILDCARE	875 m²	
GYM	1745 m²	
MEDICAL CENTRE	805 m²	
2: 5	3425 m²	
3		
AMENITIES	200 m²	
INTERNAL PLAZZA	1330 m²	
3: 5	1525 m²	
Grand total: 38	13010 m²	

TROLLEY CORRAL SCHEDULE			
DESCRIPTION	No. OF TROLLY BAY	TROLLEYS PER BAY	No.OF TROLLEYS

1000 x 3000	1		
PROPOSED BASEMENT LEVEL			
SINGLE TROLLEY BAY	4	15	30
PROPOSED GROUND LEVEL			
SINGLE TROLLEY BAY	2	15	570
DOUBLE TROLLEY BAY	17	30	510
Grand total			

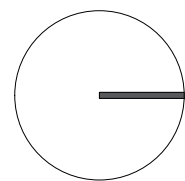
REVELOP

CHISHOLM SHOPPING CENTRE
HERITAGE DRIVE
CHISHOLM, NSW 2322 , AUSTRALIA

ISSUE	DATE	DESCRIPTION
C	10.08.22	DA ISSUE
B	10.06.22	DA ISSUE
A	13.12.21	DA ISSUE

GLAR & CARPARKING ANALYSIS

A00.20 DA - C
1:1000 @ A1
1:2000 @ A3



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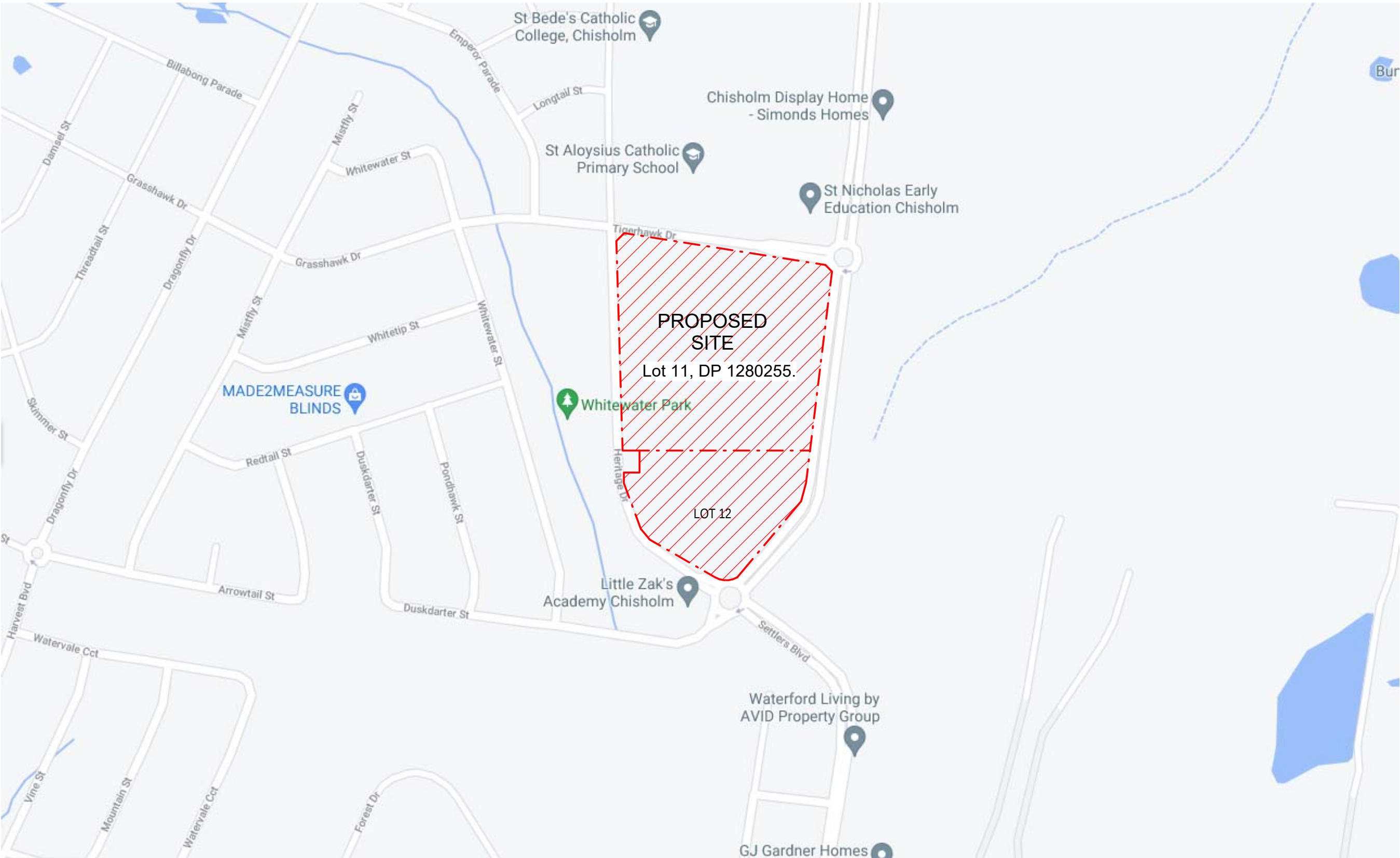
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SATELLITE AERIAL



LOCATION PLAN

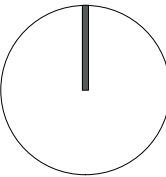


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1:NTS	@ A1
1:NTS	@ A3



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1 : 700

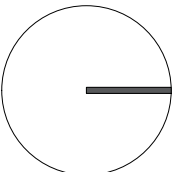


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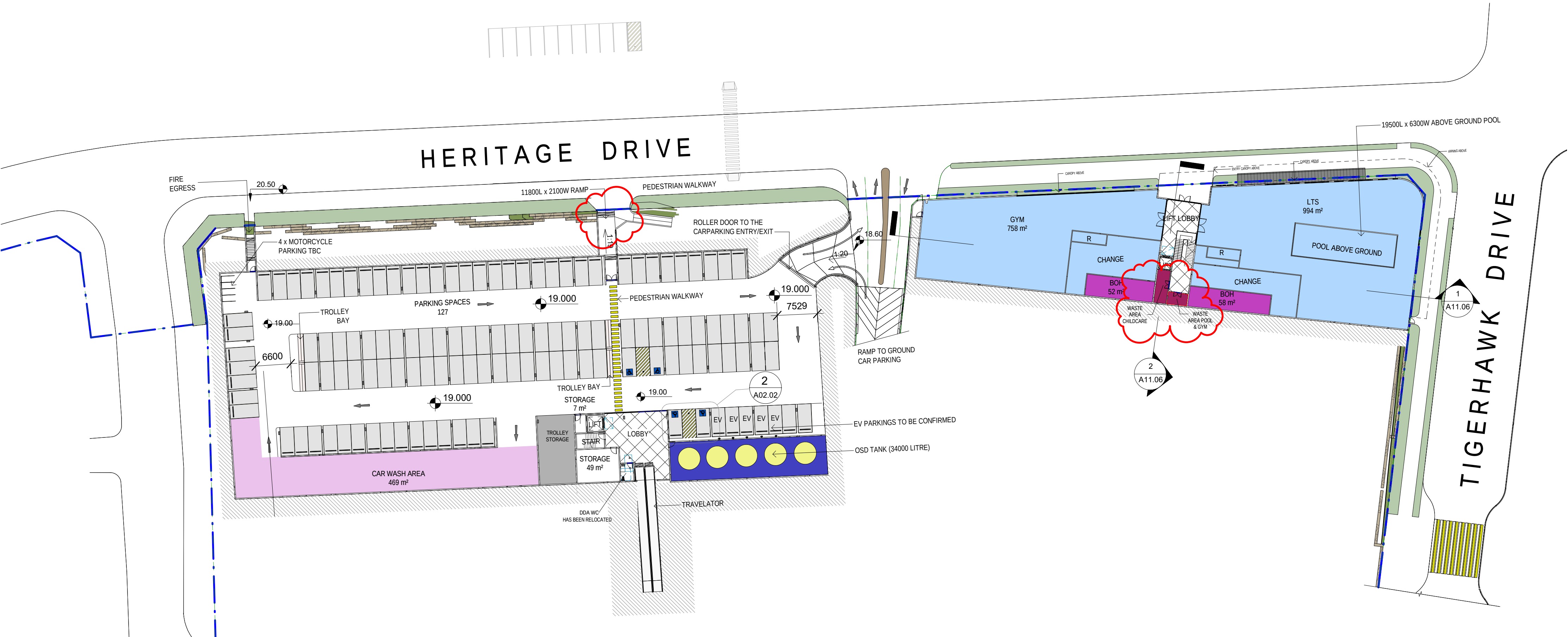
PROPOSED SITE PLAN

A02.01 DA - D
1:700 @ A1
1:1400 @ A3

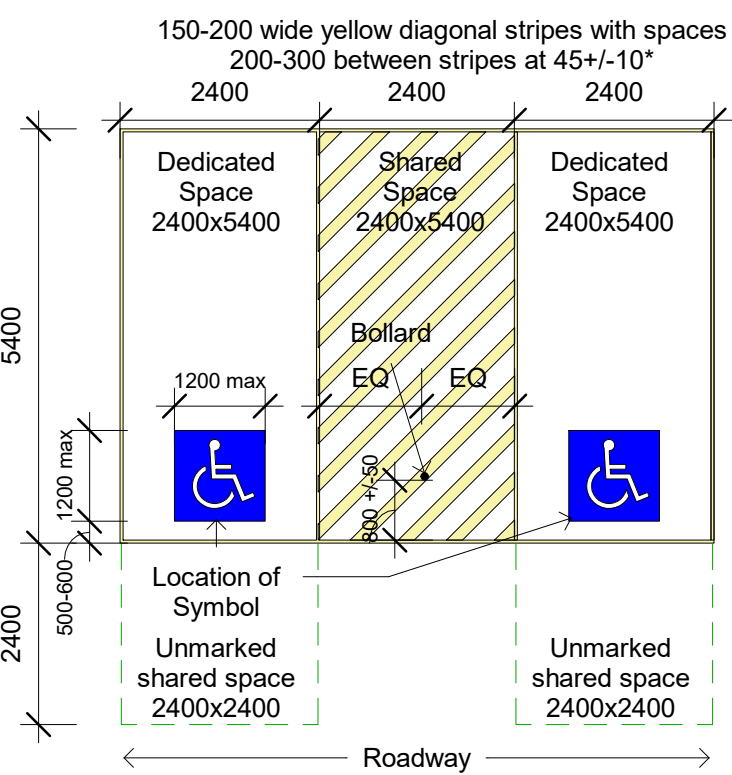


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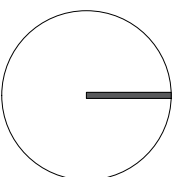
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1 PROPOSED BASEMENT FLOOR PLAN
1:500



2 TYP. ACCESSIBLE PARKING BAY DETAIL
1:100



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1 : 500

HERITAGE DRIVE

TIGERHAWK DRIVE

SETTLERS BLVD.

PROPOSED RESIDENTIAL SITE LOT 12

- LEGEND
- BUS STOP
 - PEDESTRIAN ACCESS PATH
 - BIKE RACK
 - TOTAL BIKE RACKS 78

CHISHOLM SHOPPING CENTRE
HERITAGE DRIVE
CHISHOLM, NSW 2322, AUSTRALIA

ISSUE	DATE	DESCRIPTION
E	10.08.22	DA ISSUE
D	10.06.22	DA ISSUE
C	08.03.22	DA ISSUE
B	13.12.21	DA ISSUE

PROPOSED GROUND FLOOR PLAN

A02.03 DA - F
1:500 @ A1
1:1000 @ A3

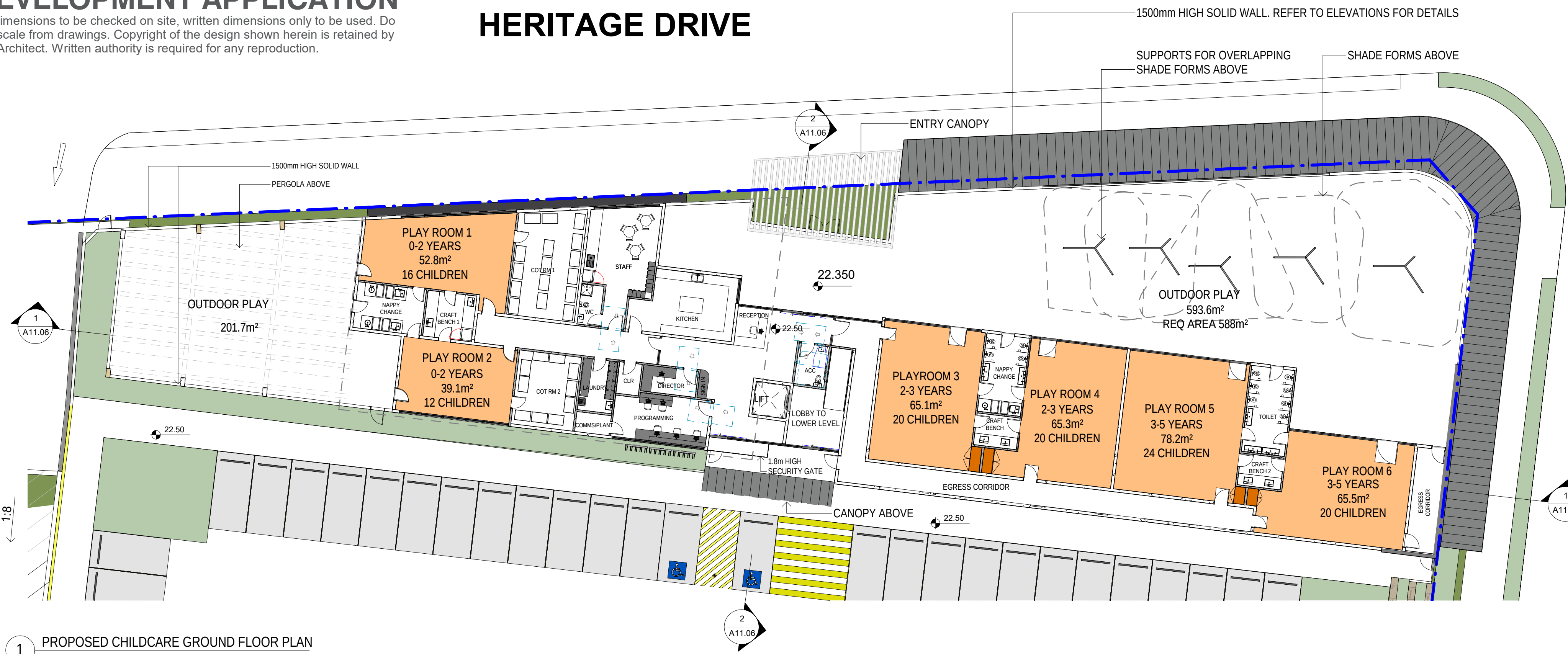
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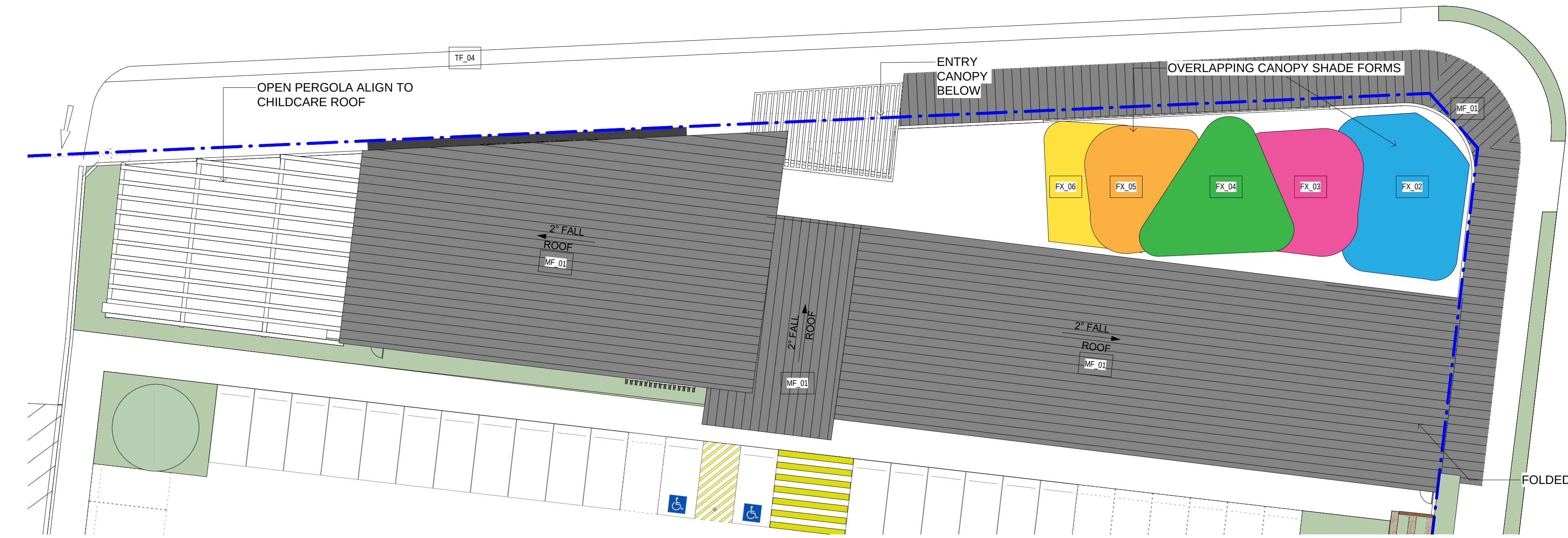
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HERITAGE DRIVE



1 PROPOSED CHILDCARE GROUND FLOOR PLAN

HERITAGE DRIVE



2 PROPOSED CHILDCARE ROOF PLAN

ROOM	AGE GROUP	NO. OF CHILDREN	RM AREA UNEMCUMBERED	MIN 3.25M² PER CHILD	REQUIRED STAFF
PLAYROOM 01	0-2	16	52.8	3.3	4
PLAYROOM 02	0-2	12	39.1	3.25	3
PLAYROOM 03	2-3	20	65.1	3.25	4
PLAYROOM 04	2-3	20	65.3	3.26	4
PLAYROOM 05	3-5	24	78.2	3.25	2.4
PLAYROOM 06	3-5	20	65.5	3.27	2

ADDITIONAL STAFF	
RECEPTION + ADMIN	2
DIRECTOR	1
TOTAL STAFF	22.4

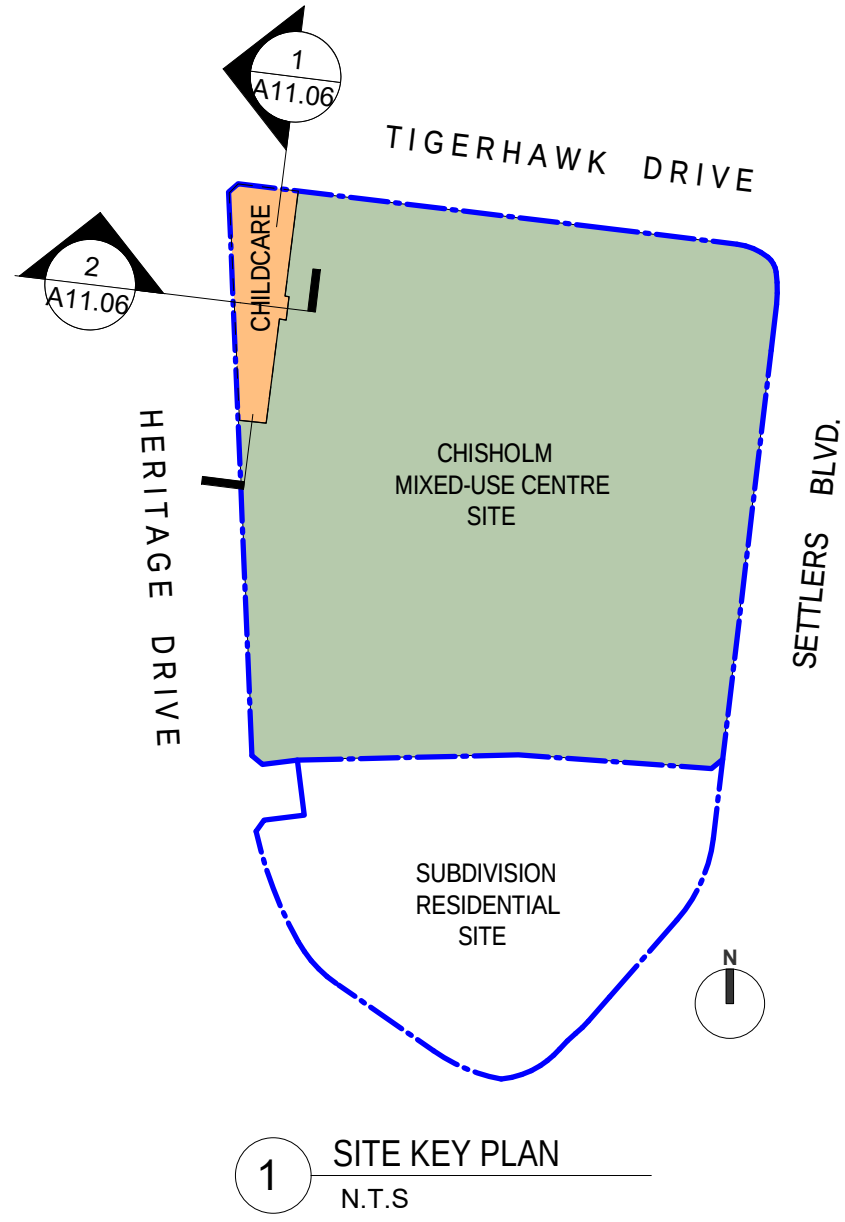
UNENCUMBERED INDOOR SPACE	
3.25m² PER CHILD	364
SPACE PROVIDED	366

OUTDOOR SPACE	
7m² PER CHILD	789
SPACE PROVIDED	795.3

JUNIOR TOILET	
DOCS (1 PER 15)	7
NO PROVIDED	11

NAPPY CHANGE	
1/10 CHILD < 3	4.8
NO PROVIDED	6

TIGERHAWK DRIVE



NOTE:

- BCA STATES THAT IF THE CENTRE ACCOMMODATES CHILDREN UNDER THE AGE OF 3 THEY MUST INCLUDE A DEDICATED BENCH TYPE BABY BATH
- UNENCUMBERED SPACE EXCLUDES WALLS, COLUMNS, CRAFT BENCHES AND STORES)

REVELOP

CHISHOLM SHOPPING CENTRE

HERITAGE DRIVE

CHISHOLM, NSW 2322 , AUSTRALIA

ISSUE DATE DESCRIPTION

C 10.06.22 DA ISSUE

B 08.03.22 DA ISSUE

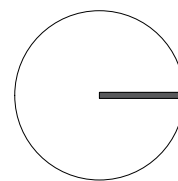
A 13.12.21 DA ISSUE

PROPOSED CHILDCARE FLOOR & ROOF PLAN

A02.06 DA - C

1:200 @ A1

1:400 @ A3



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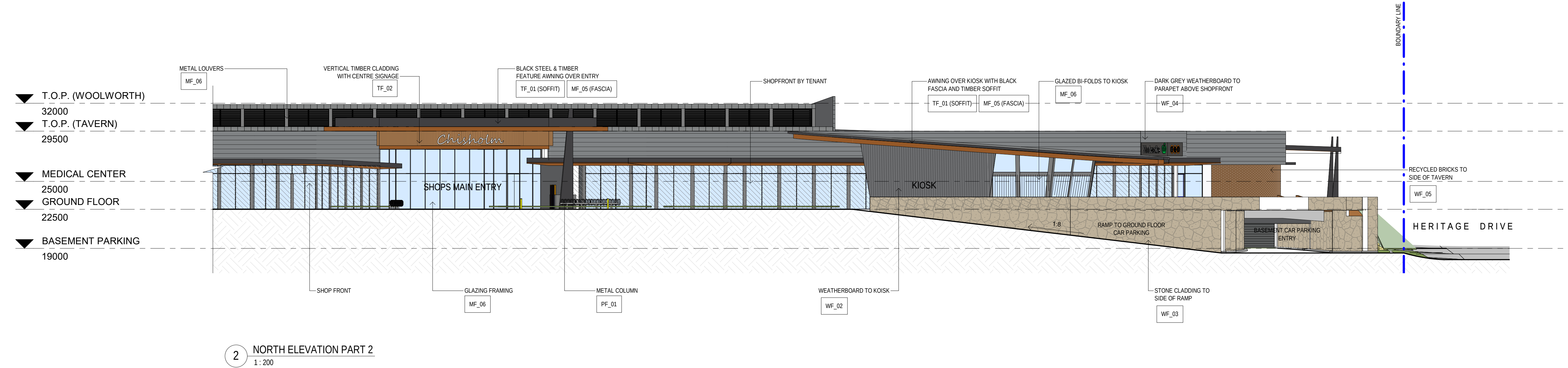
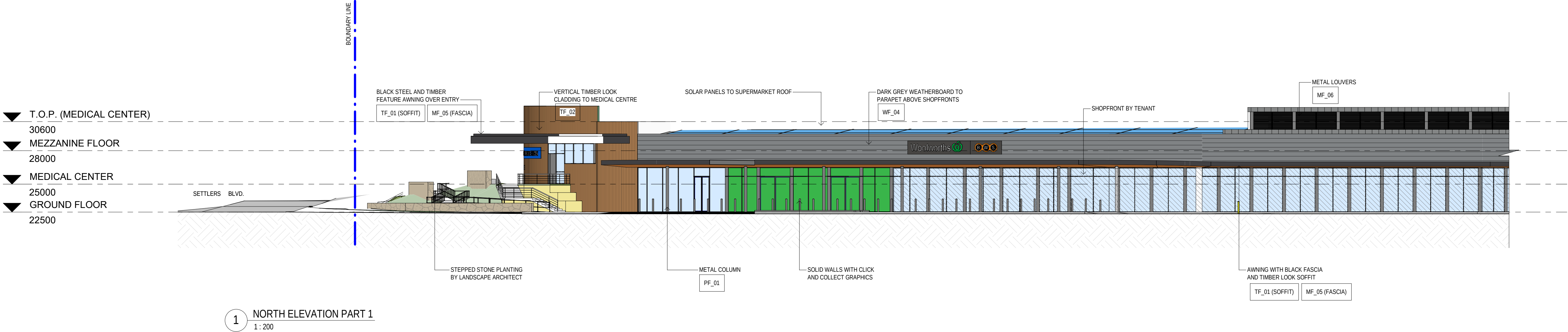
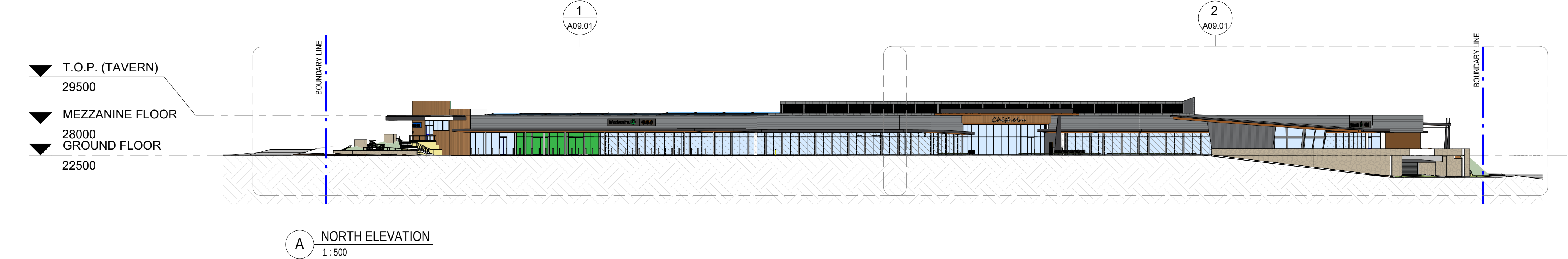
Graphics

Interiors



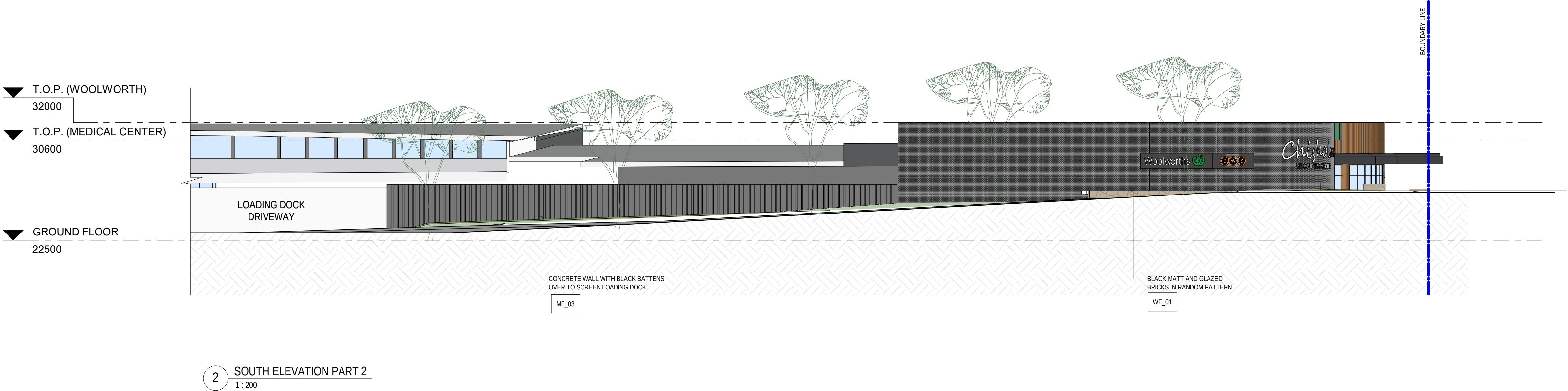
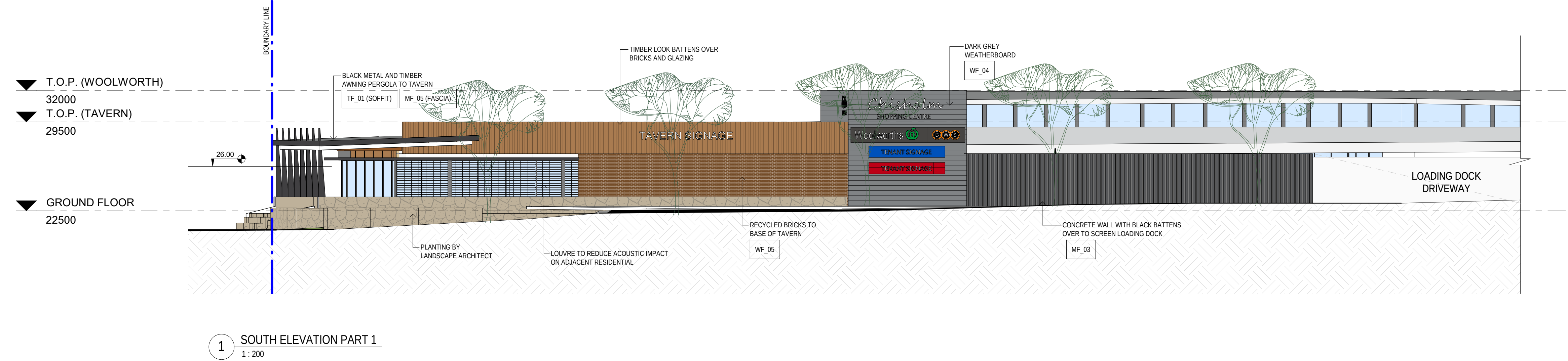
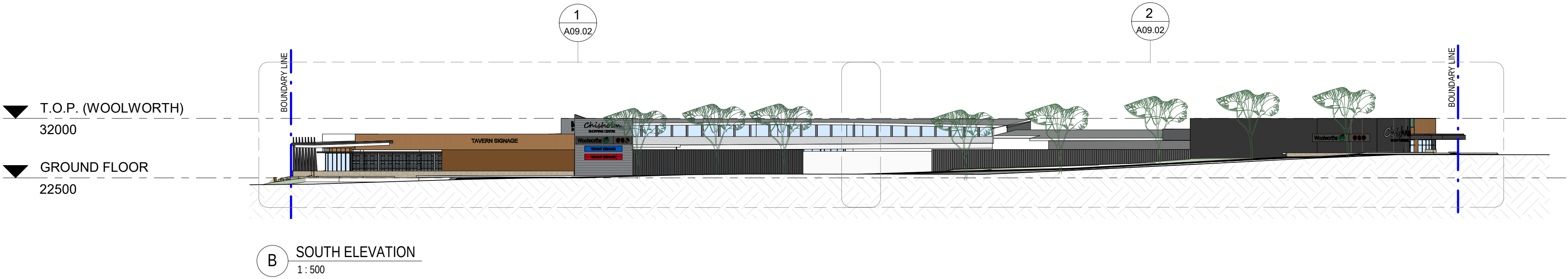
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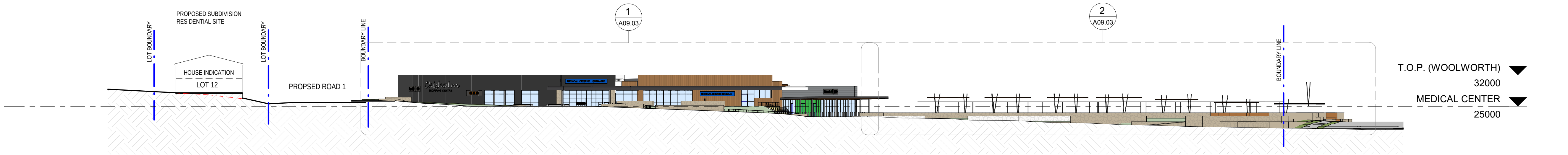
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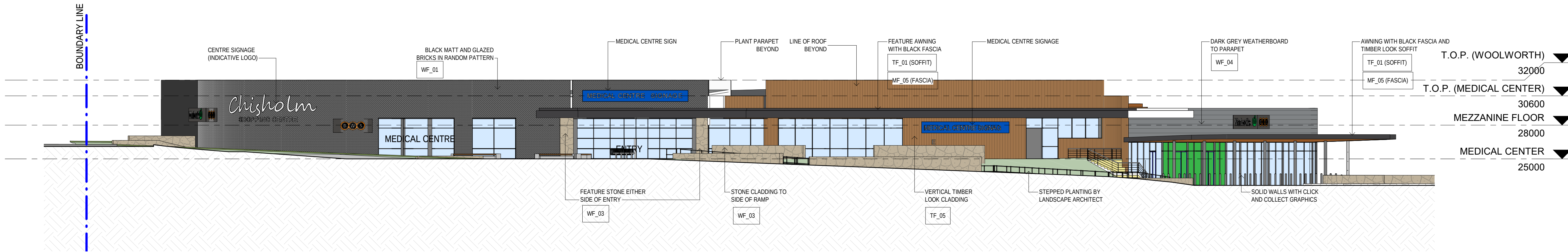


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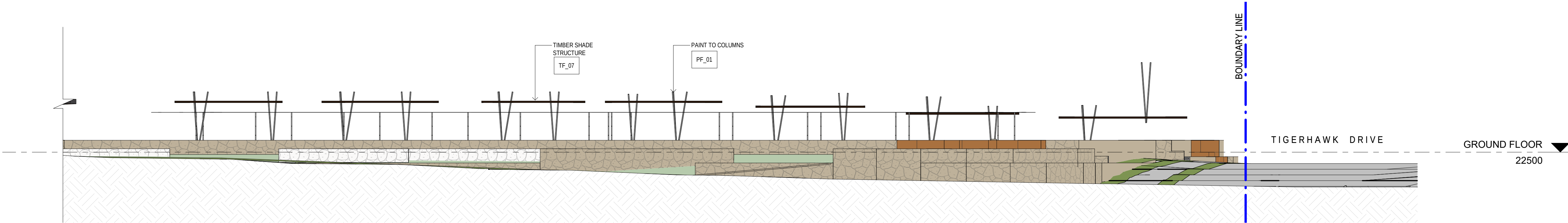
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C EAST ELEVATION
1:500



1 EAST ELEVATION PART 1
1:200



2 EAST ELEVATION PART 2
1:200



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EAST ELEVATION

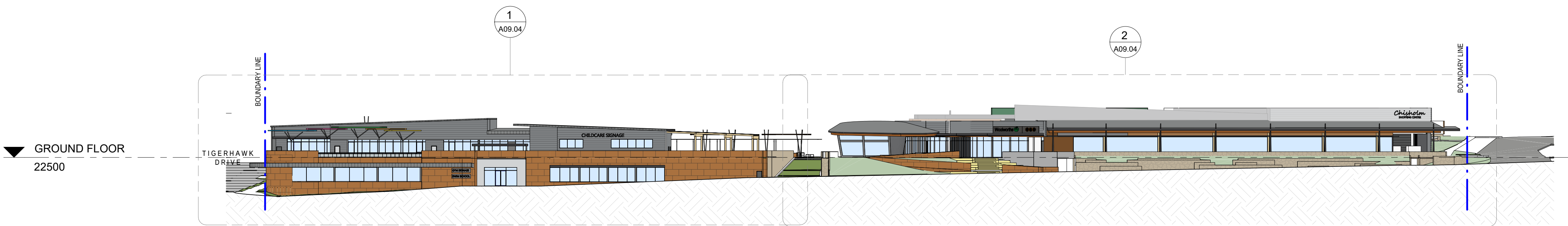
A09.03 DA - D
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1:400 @ A3

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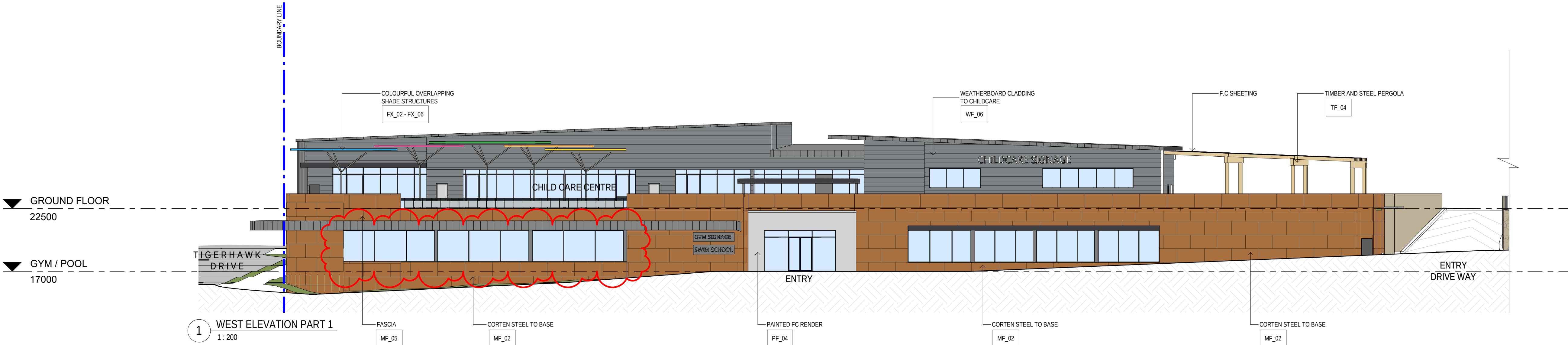


DEVELOPMENT APPLICATION

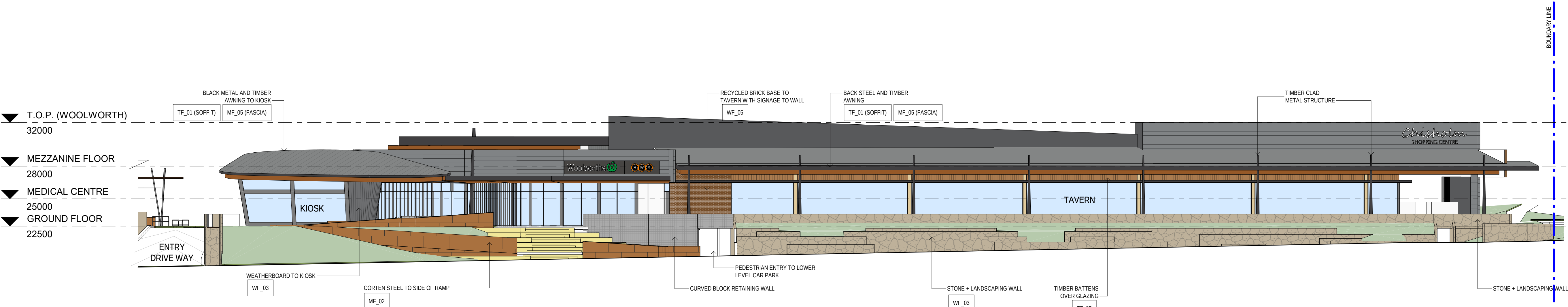
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D WEST ELEVATION
1:500



1 WEST ELEVATION PART 1
1:200



2 WEST ELEVATION PART 2
1:200

REVELOP

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CHISHOLM, NSW 2322 , AUSTRALIA

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WEST ELEVATION

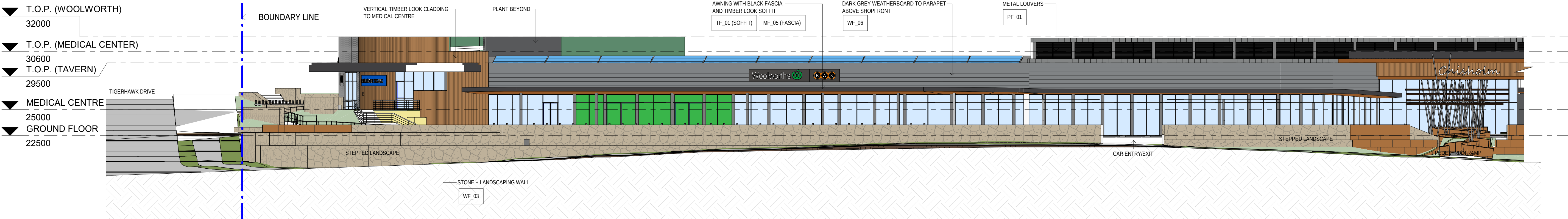
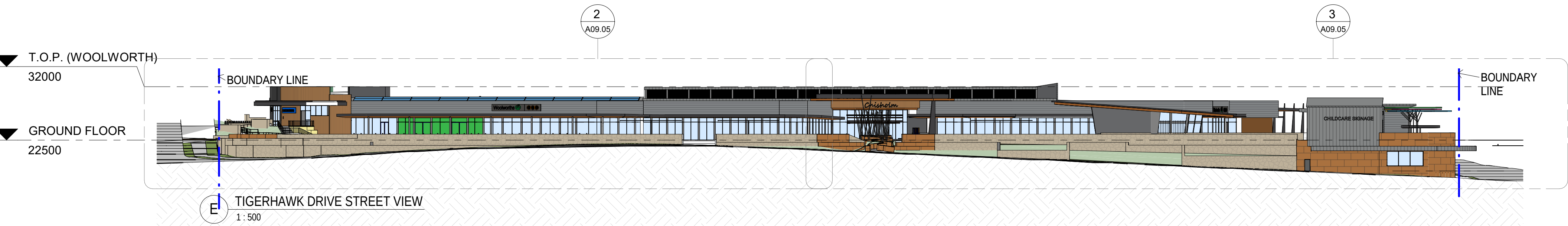
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1:400 @ A3

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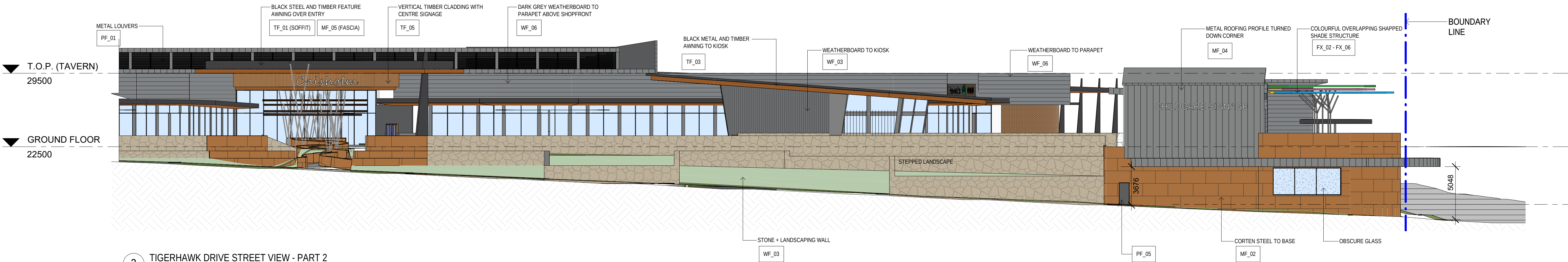
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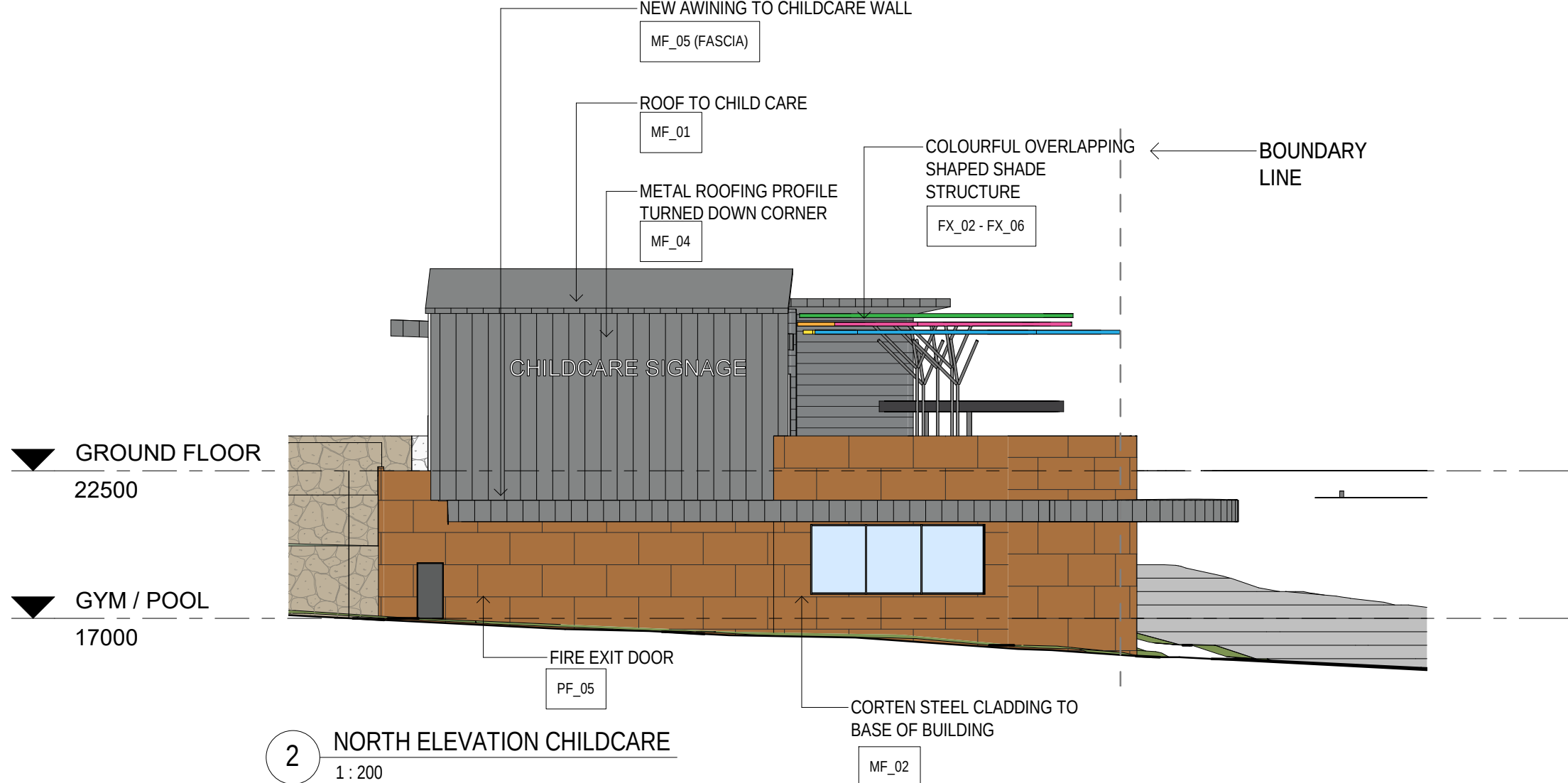
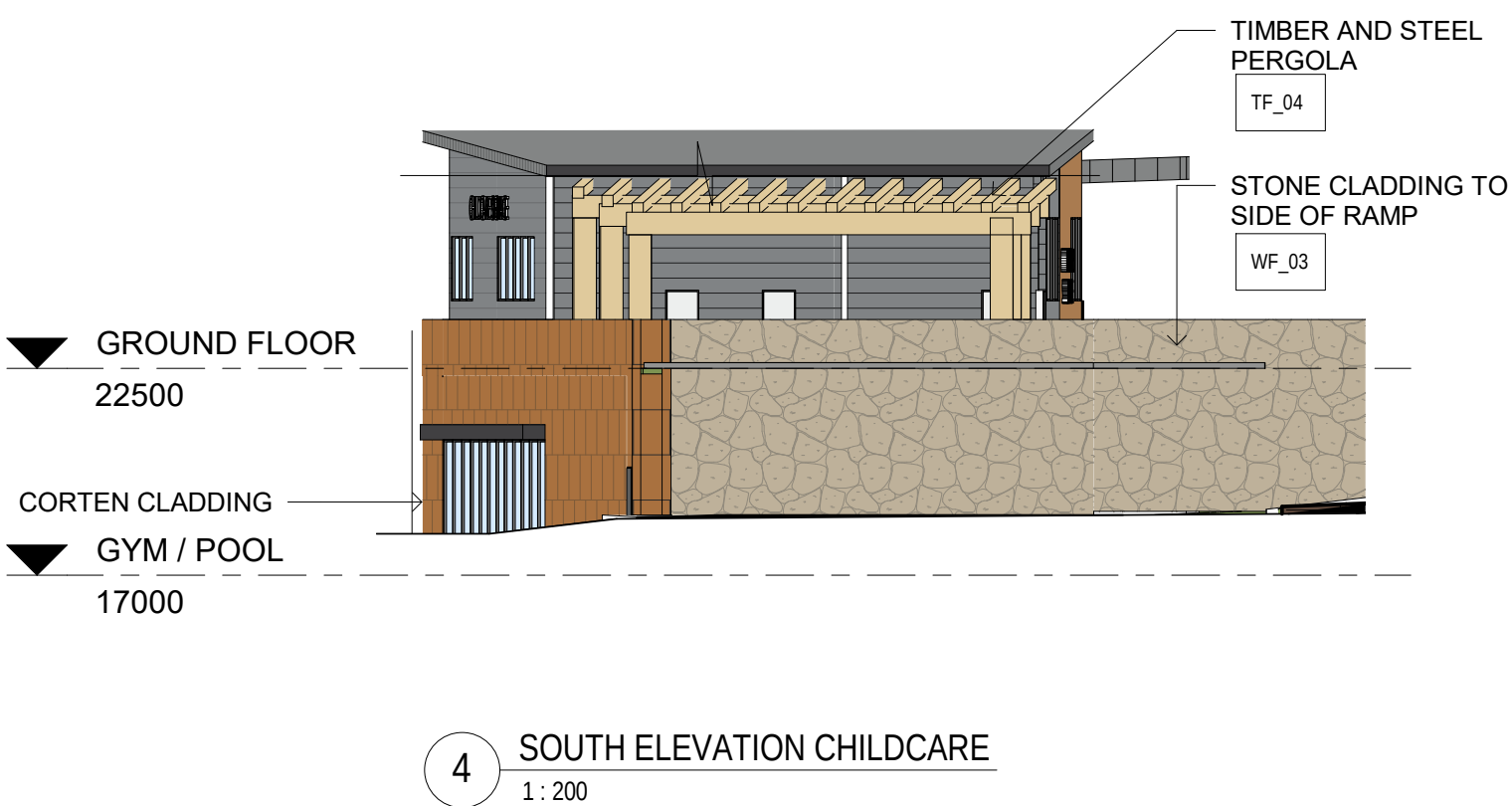
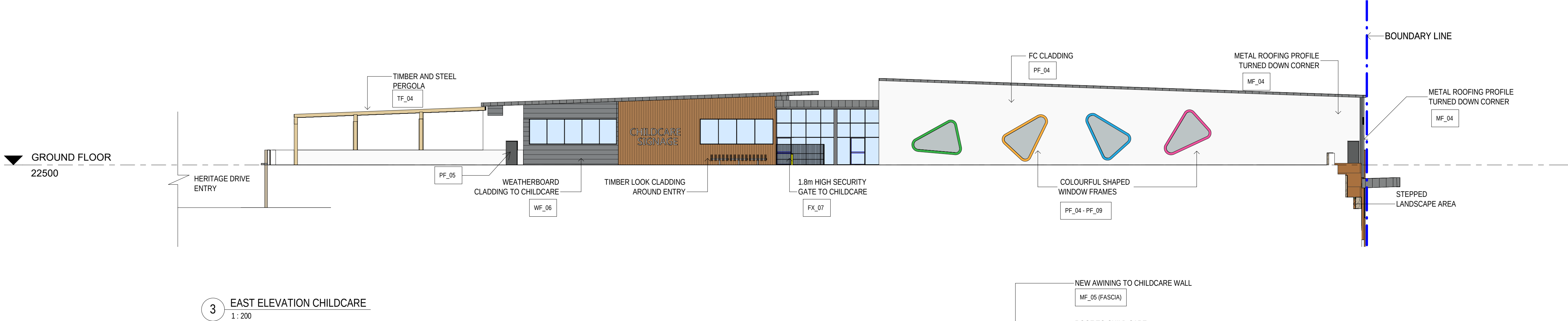
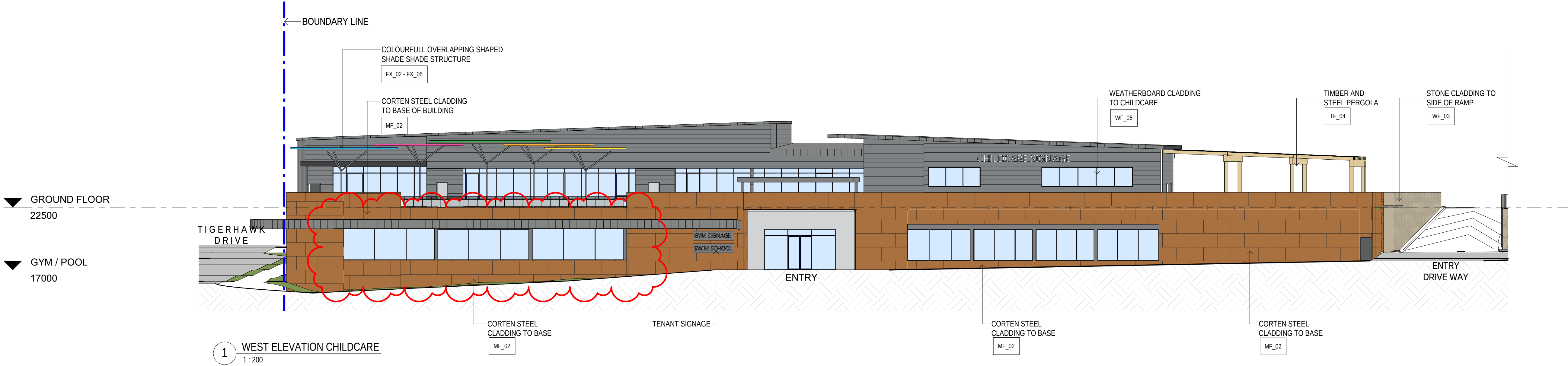
2 TIGERHAWK DRIVE STREET VIEW - PART 1
1:200



3 TIGERHAWK DRIVE STREET VIEW - PART 2
1:200

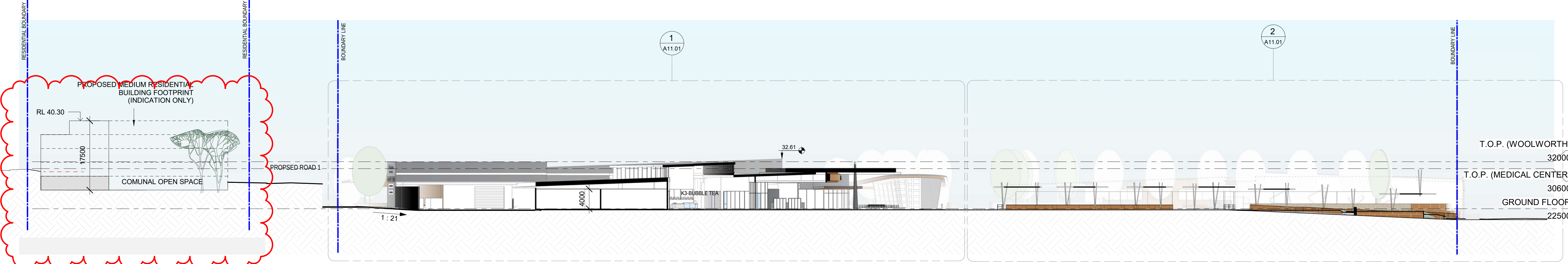
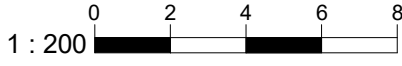
DEVELOPMENT APPLICATION

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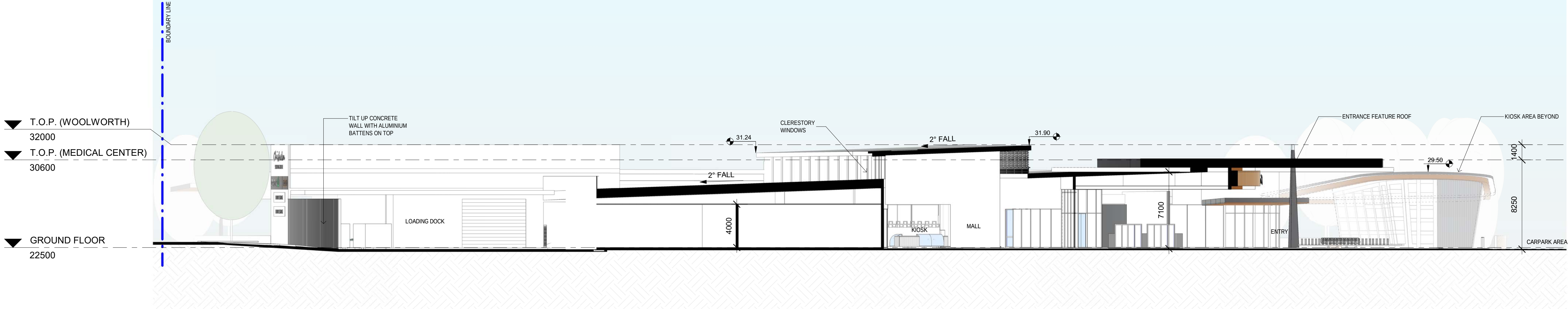


DEVELOPMENT APPLICATION

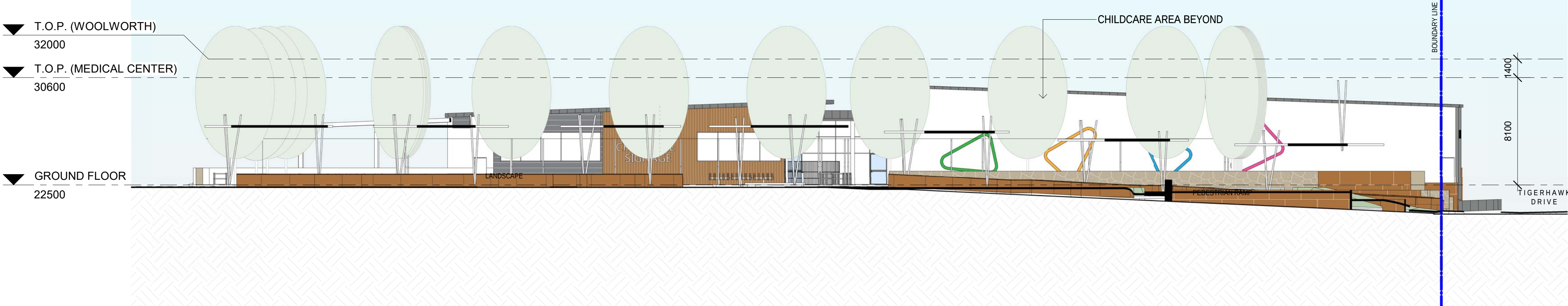
All dimensions to be checked on site, written dimensions only to be used. Do not scale from drawings. Copyright of the design shown herein is retained by the Architect. Written authority is required for any reproduction.



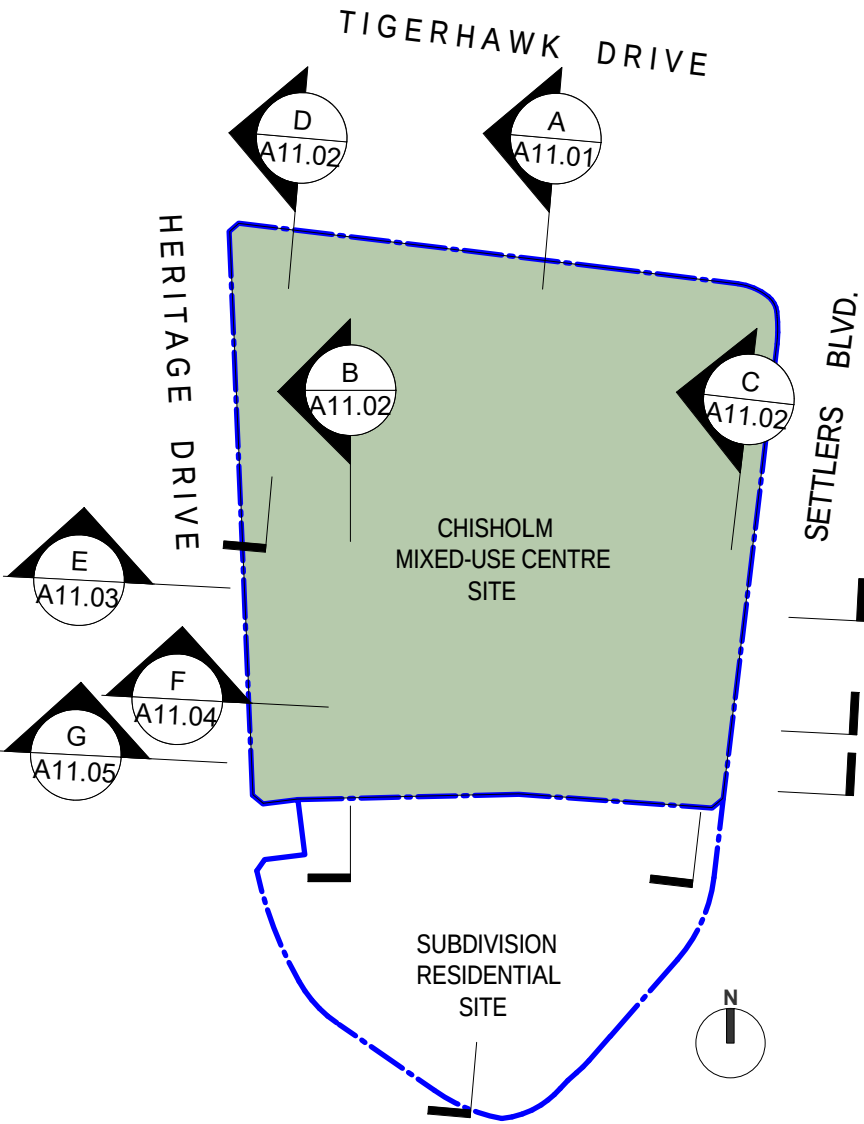
A SECTION A-A
1:400



1 SECTION A-A Part 1
1:200



2 SECTION A-A Part 2
1:200



1 SITE KEY PLAN
N.T.S



CHISHOLM SHOPPING CENTRE
HERITAGE DRIVE
CHISHOLM, NSW 2322 , AUSTRALIA

ISSUE	DATE	DESCRIPTION
D	10.08.22	DA ISSUE
C	10.06.22	DA ISSUE
B	08.03.22	DA ISSUE
A	13.12.21	DA ISSUE

SECTION A

A11.01 DA - D
AS INDICATED @ A1
@ A3

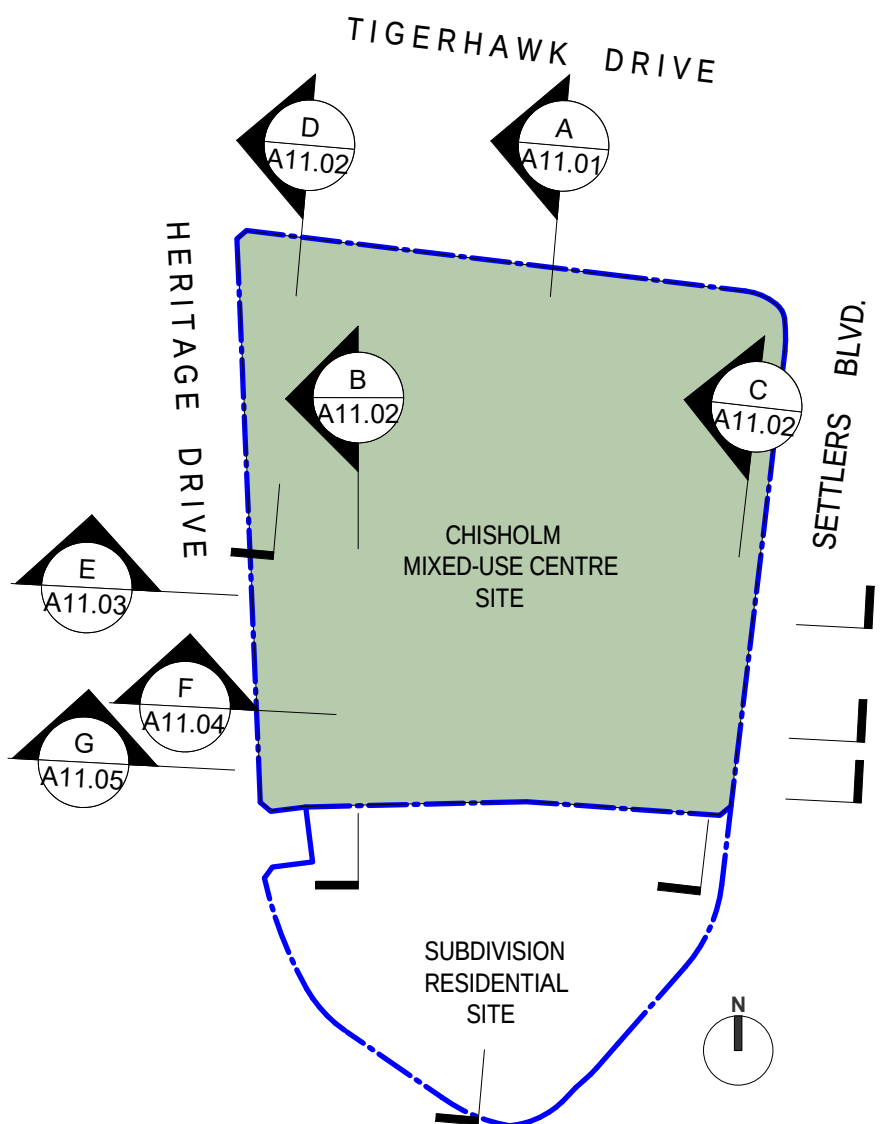
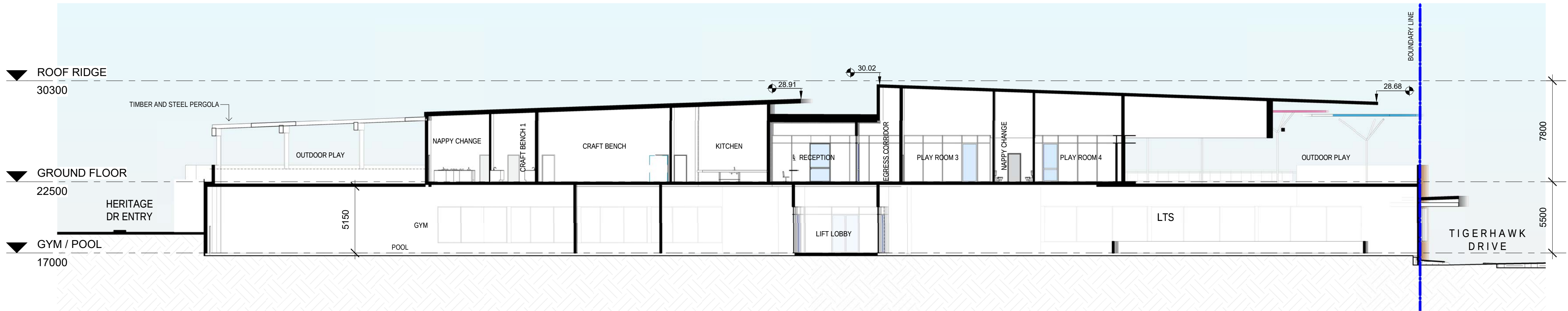
82 Alexander Street
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DEVELOPMENT APPLICATION

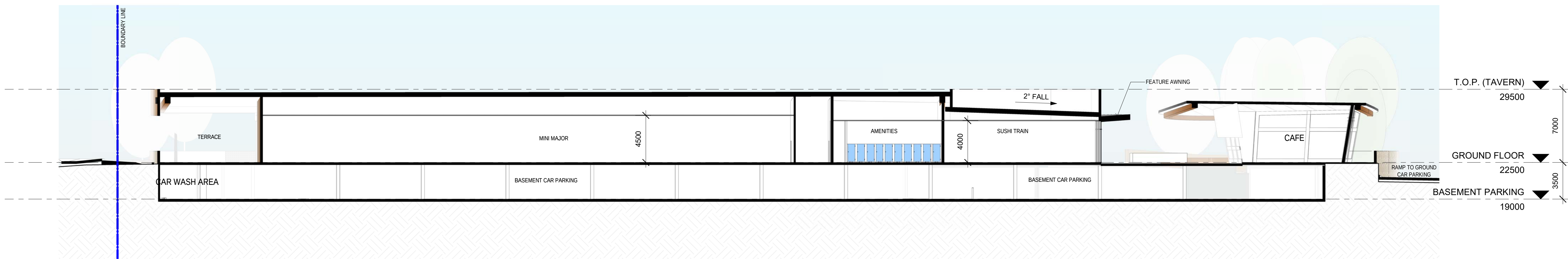
All dimensions to be checked on site, written dimensions only to be used. Do not scale from drawings. Copyright of the design shown herein is retained by the Architect. Written authority is required for any reproduction.

0 2 4 6 8
1 : 200

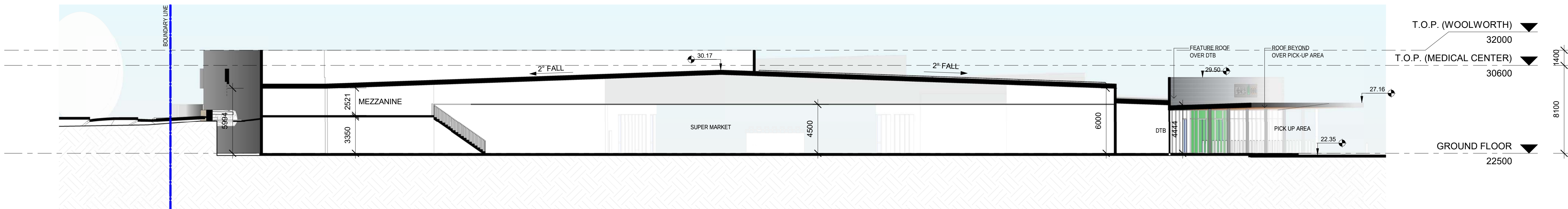


1 SITE KEY PLAN
N.T.S

D SECTION D-D
1 : 200



B SECTION B-B
1 : 200



C SECTION C-C
1 : 200

REVELOP

CHISHOLM SHOPPING CENTRE
HERITAGE DRIVE
CHISHOLM, NSW 2322 , AUSTRALIA

ISSUE	DATE	DESCRIPTION
C	10.06.22	DA ISSUE
B	08.03.22	DA ISSUE
A	13.12.21	DA ISSUE

SECTION B, C, D

A11.02 DA - C
1:200 @ A1
1:400 @ A3

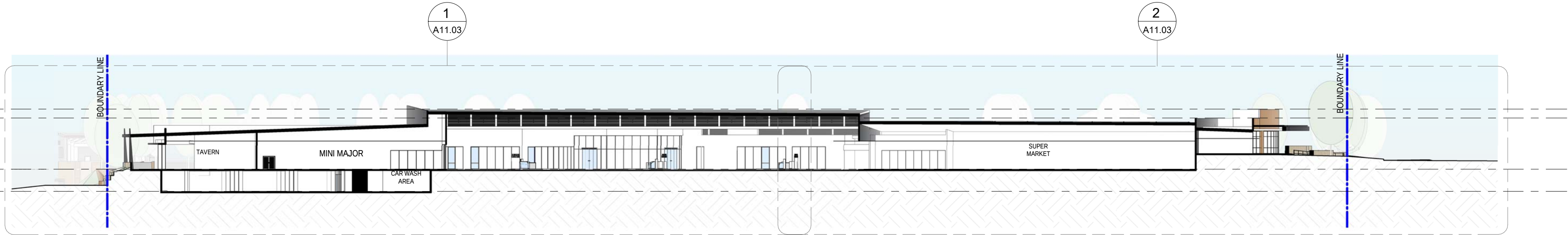
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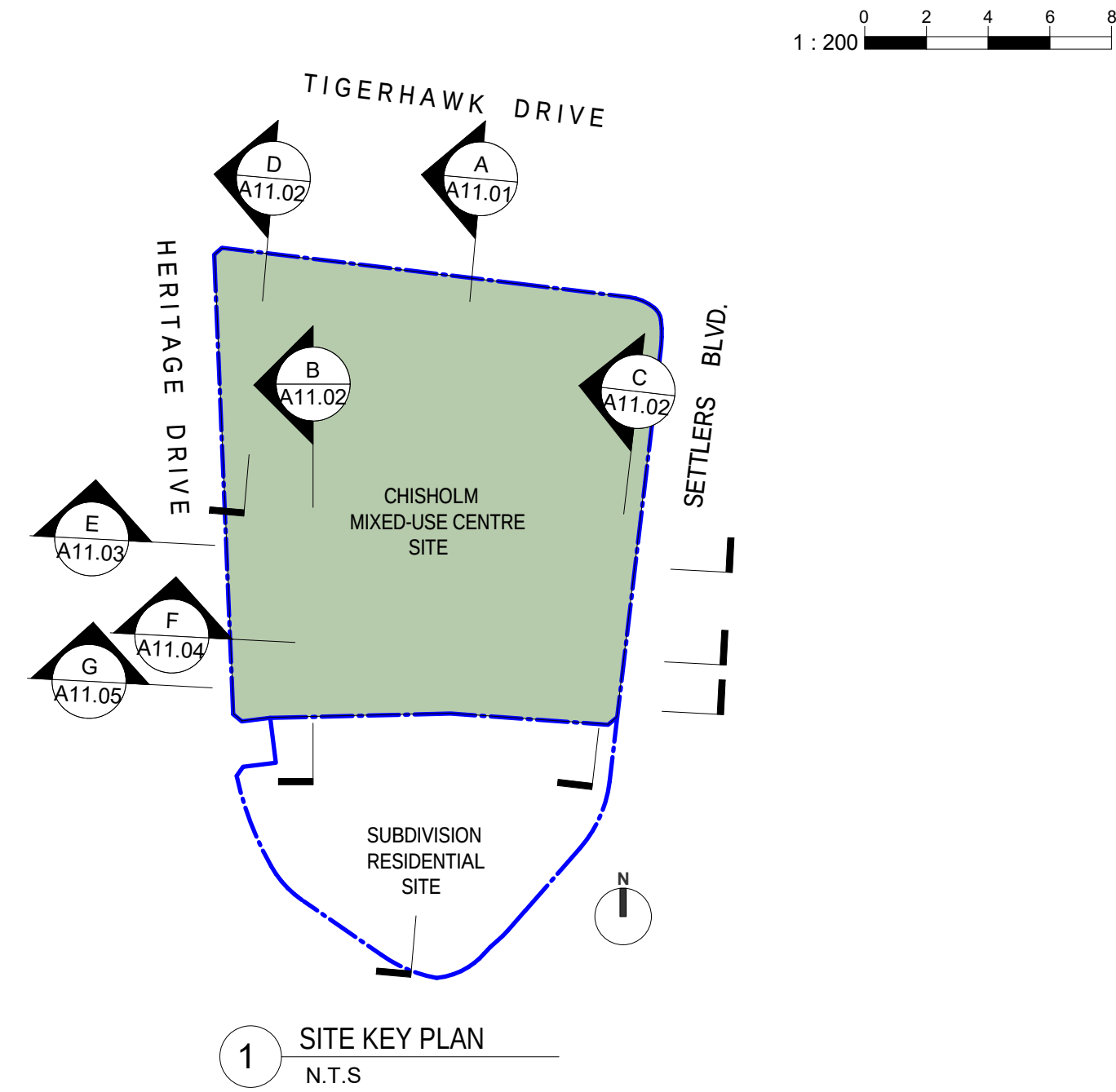
DEVELOPMENT APPLICATION

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- ▼ T.O.P. (WOOLWORTH)
32000
- ▼ T.O.P. (MEDICAL CENTER)
30600
- ▼ GROUND FLOOR
22500
- ▼ BASEMENT PARKING
19000



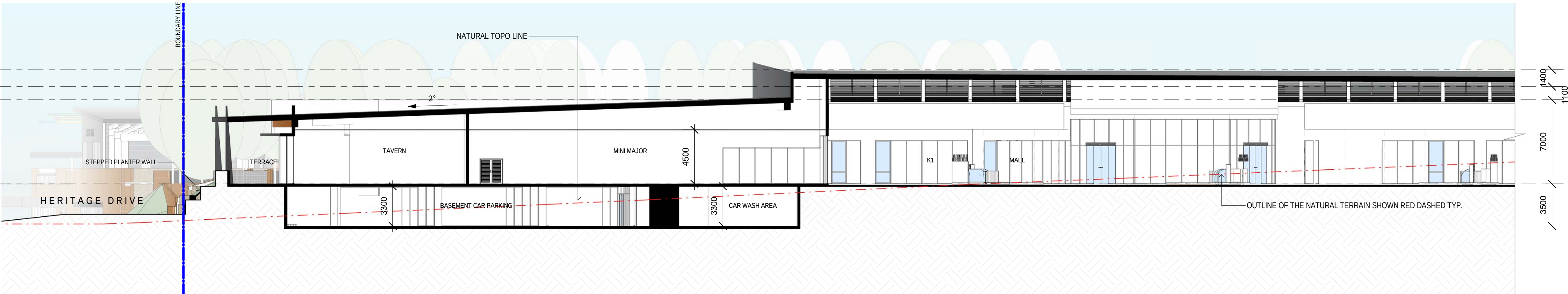
E SECTION E-E
1:500



1 SITE KEY PLAN
N.T.S

- ▼ T.O.P. (WOOLWORTH)
32000
- ▼ T.O.P. (MEDICAL CENTER)
30600
- ▼ T.O.P. (TAVERN)
29500

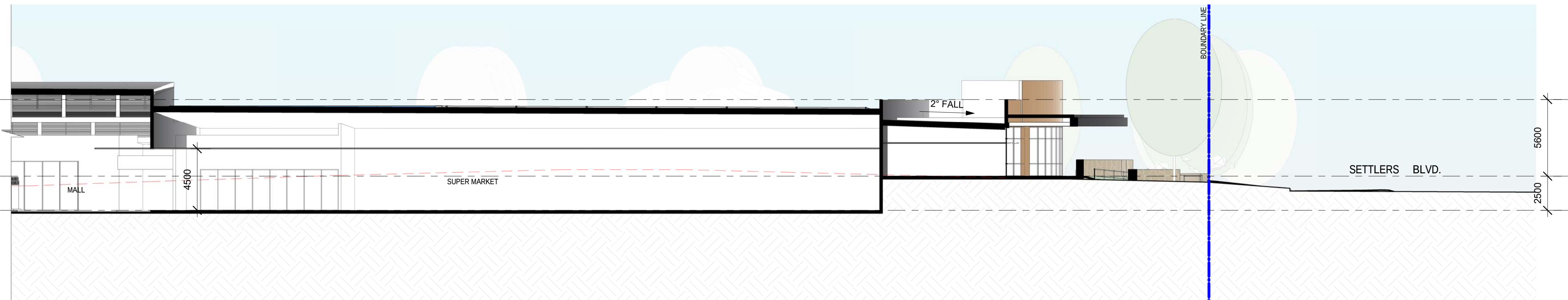
- ▼ GROUND FLOOR
22500
- ▼ BASEMENT PARKING
19000



1 SECTION E-E_Part 1
1:200

- ▼ T.O.P. (MEDICAL CENTER)
30600

- ▼ MEDICAL CENTER
25000
- ▼ GROUND FLOOR
22500



2 SECTION E-E_Part 2
1:200

REVELOP

CHISHOLM SHOPPING CENTRE
HERITAGE DRIVE
CHISHOLM, NSW 2322 , AUSTRALIA

ISSUE	DATE	DESCRIPTION
C	10.06.22	DA ISSUE
B	08.03.22	DA ISSUE
A	13.12.21	DA ISSUE

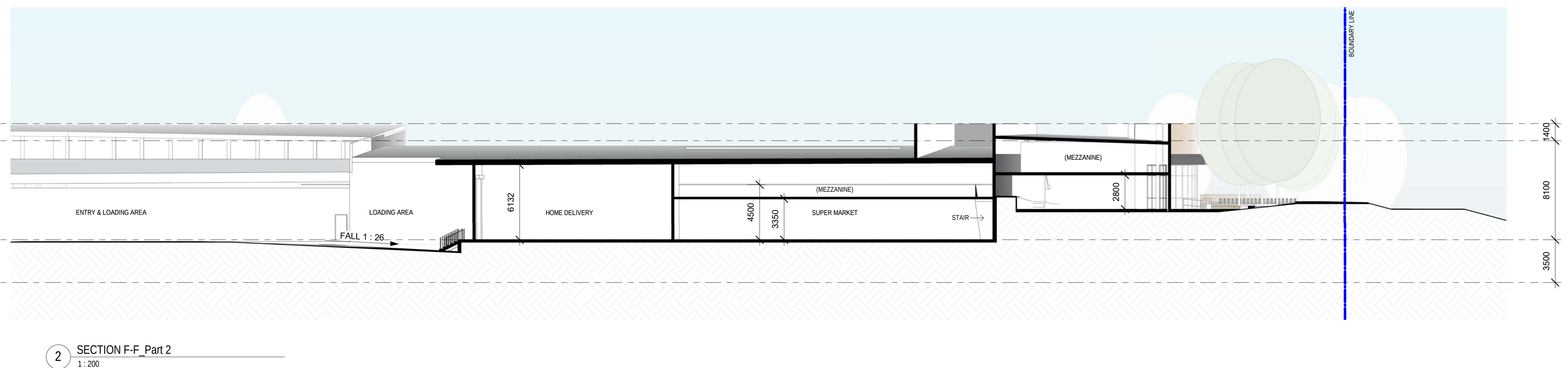
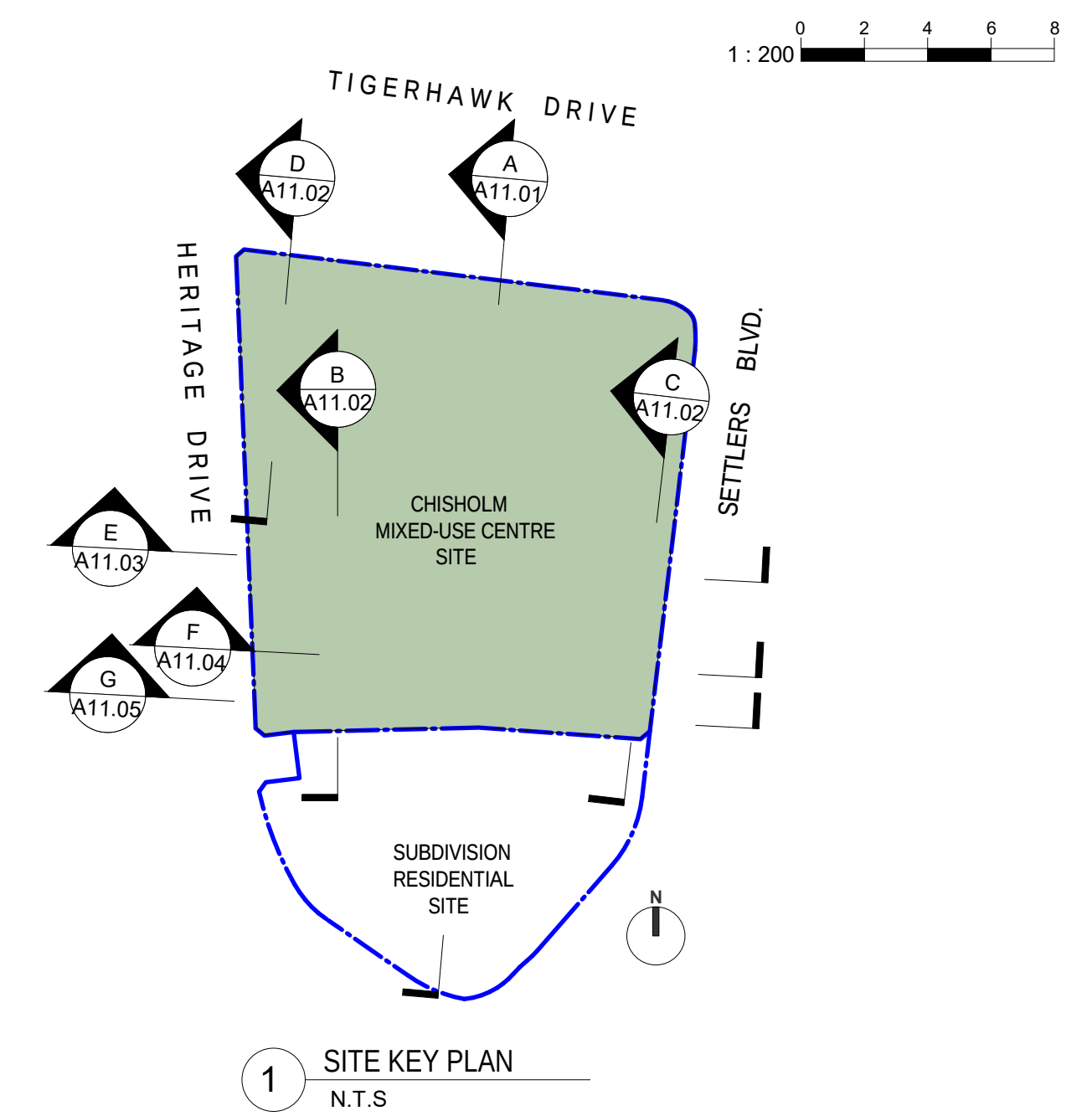
SECTION E

A11.03 DA - C
AS INDICATED @ A1
@ A3

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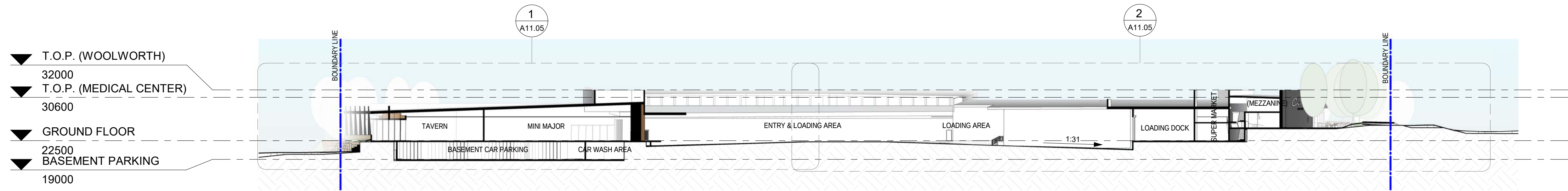
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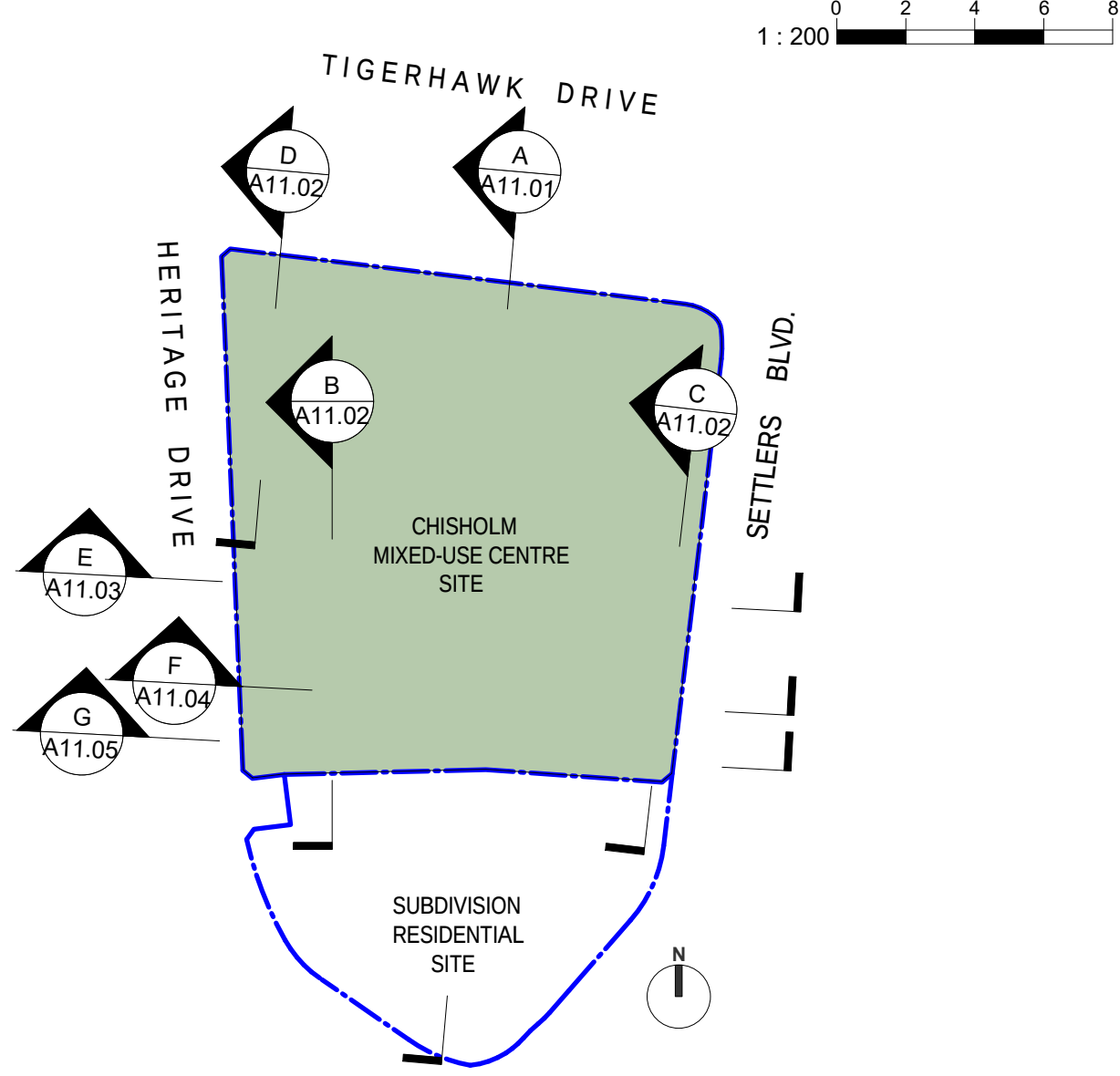


DEVELOPMENT APPLICATION

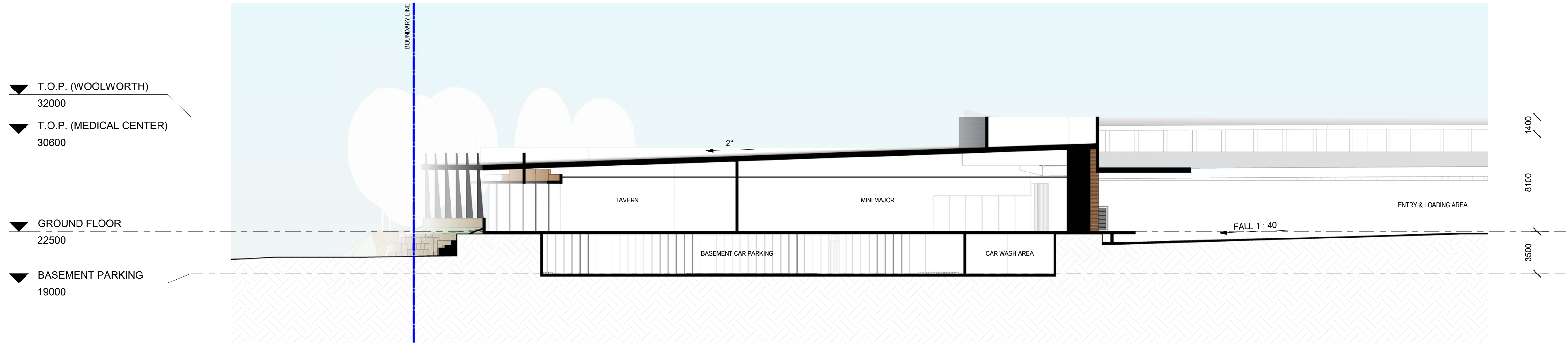
All dimensions to be checked on site, written dimensions only to be used. Do not scale from drawings. Copyright of the design shown herein is retained by the Architect. Written authority is required for any reproduction.



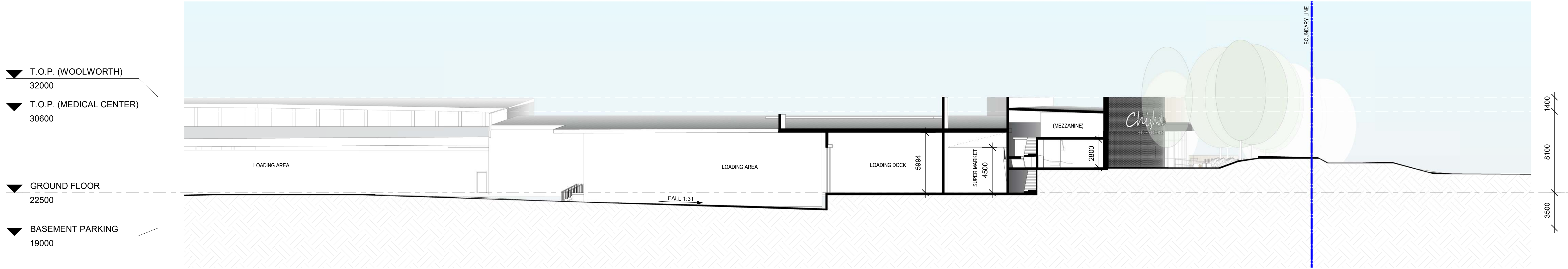
G SECTION G
1:500



1 SITE KEY PLAN
N.T.S



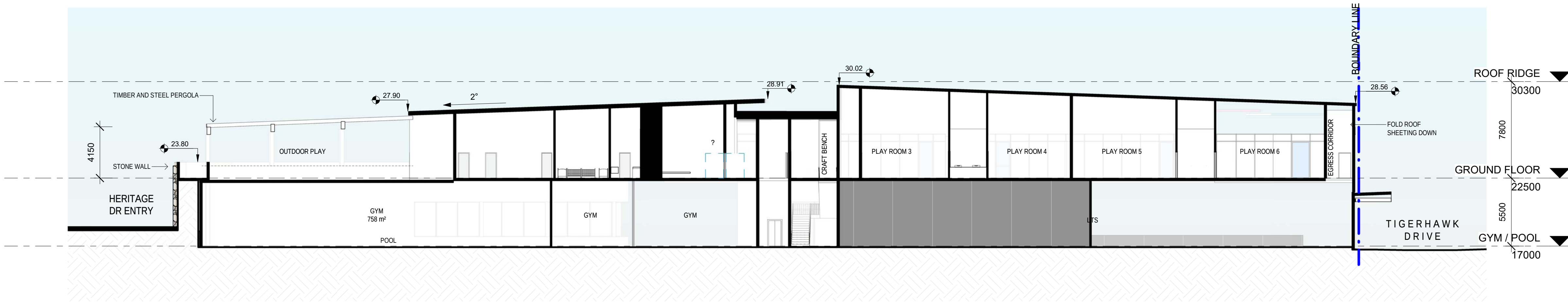
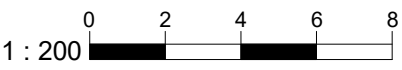
1 SECTION G-G Part 1
1:200



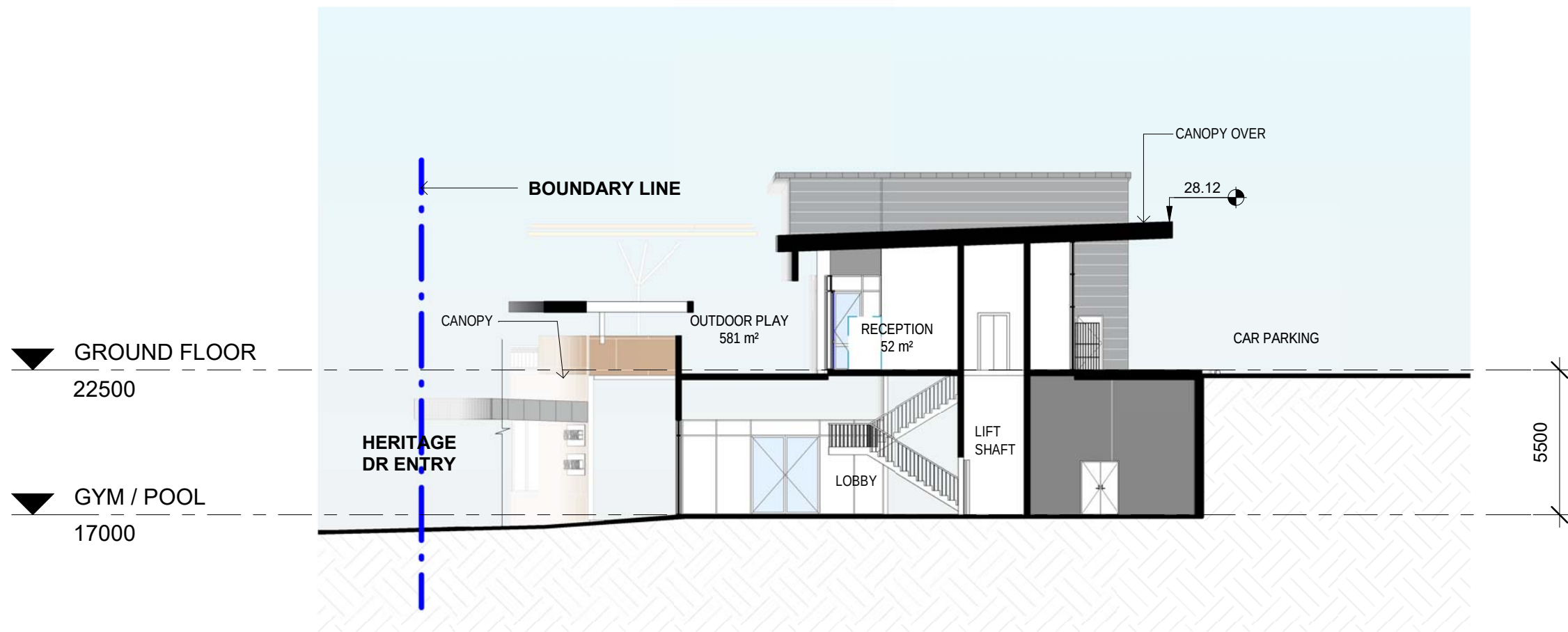
2 SECTION G-G Part 2
1:200

DEVELOPMENT APPLICATION

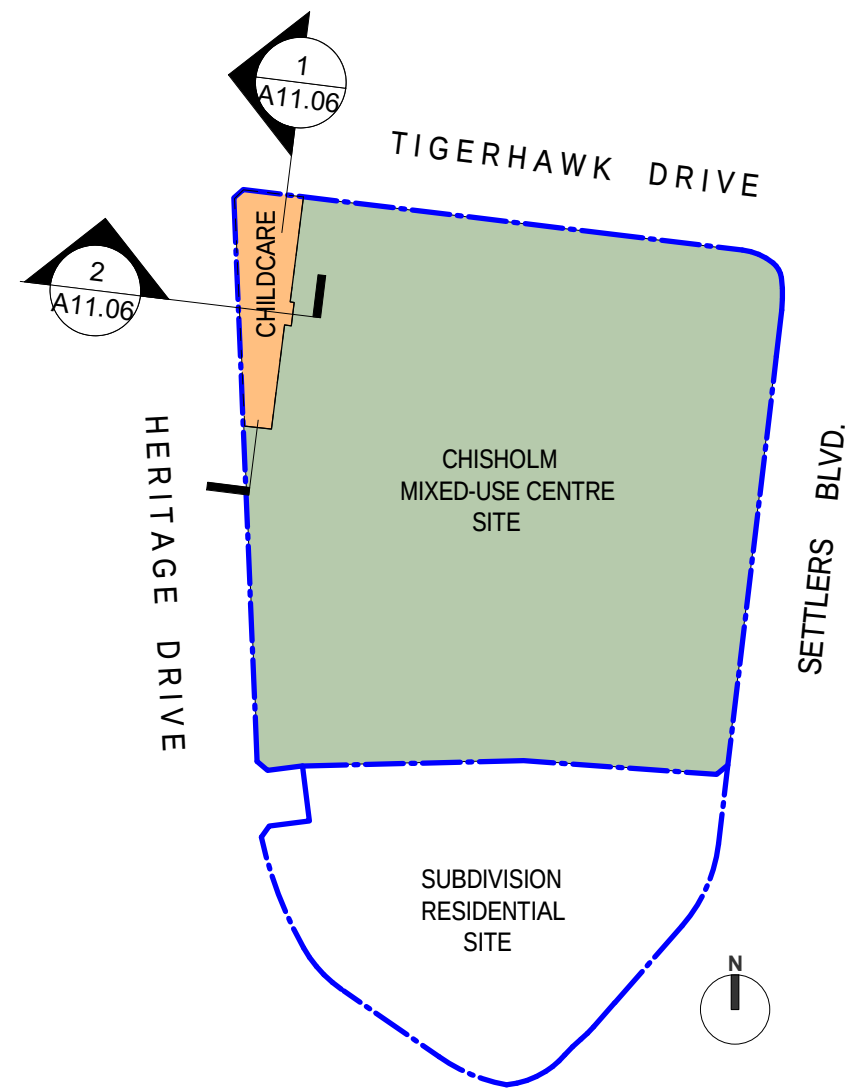
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1 SECTION 1-1
1:200



2 SECTION 2-2
1:200



1 SITE KEY PLAN
N.T.S



CHISHOLM SHOPPING CENTRE
HERITAGE DRIVE
CHISHOLM, NSW 2322 , AUSTRALIA

ISSUE	DATE	DESCRIPTION
C	10.06.22	DA ISSUE
B	08.03.22	DA ISSUE
A	13.12.21	DA ISSUE

SECTIONS - CHILDCARE

A11.06 DA - C
1:200 @ A1
1:400 @ A3

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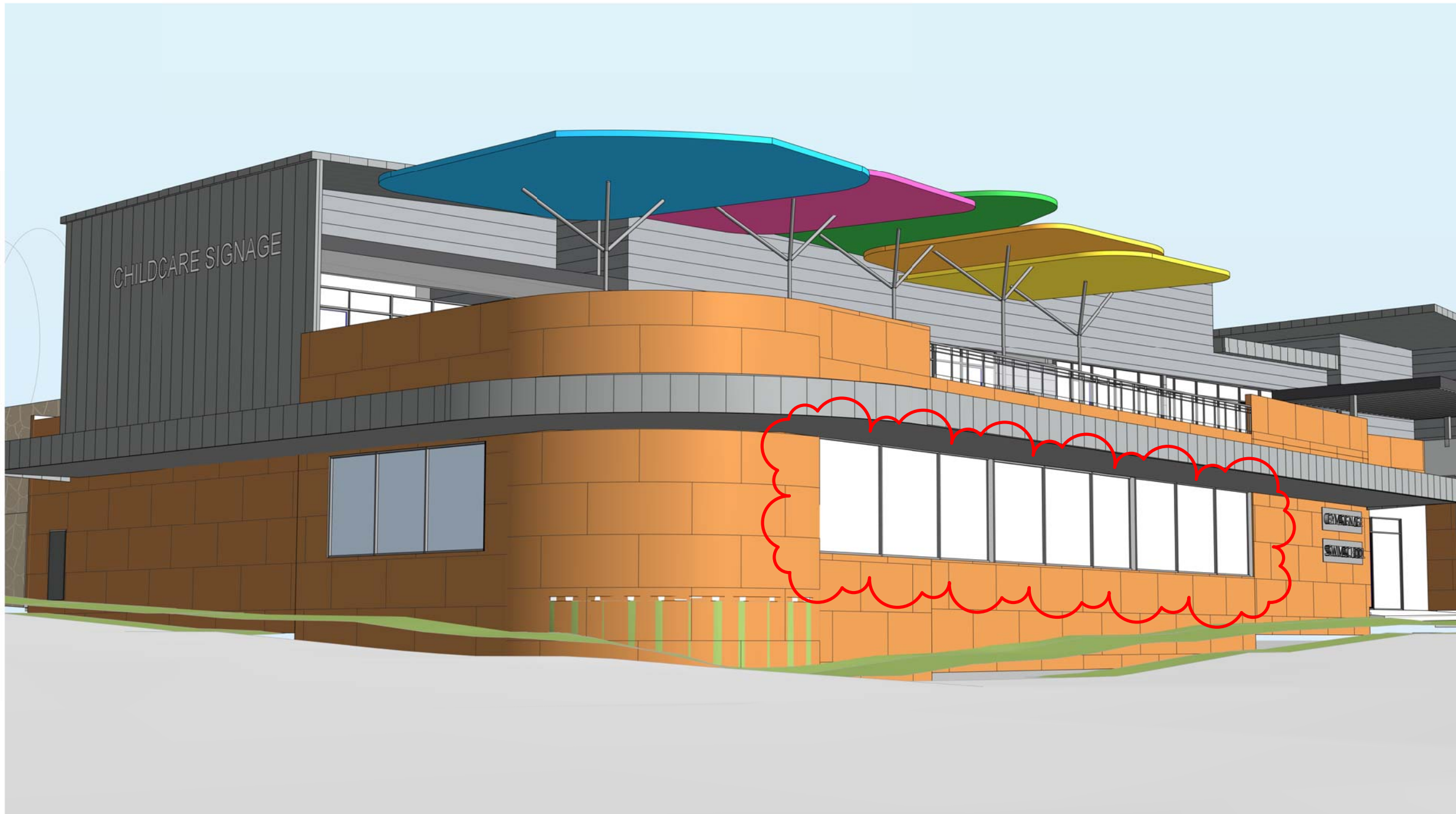


DEVELOPMENT APPLICATION

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1 PERSPECTIVE 1



3 perspective 3



2 PERSPECTIVE 2

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[illegible]

150-200 wide yellow diagonal stripes with space
200-300 mm between stripes at 45° ± 10°

2400 2400 2400

5400

Dedicated Space
2400x5400

Shared Space
2400x5400

Dedicated Space
2400x5400

1200 mm

1000 mm

Location of Symbol

Unmarked shared space
2400x5400

Unmarked shared space
2400x5400

Roadway

REVELOP

ISSUE	DATE	DESCRIPTION
C	10.08.22	DA ISSUE
B	10.06.22	DA ISSUE
A	08.03.22	DA ISSUE

A02.02 DA - C
1:500 @ A1
1:1000 @ A3

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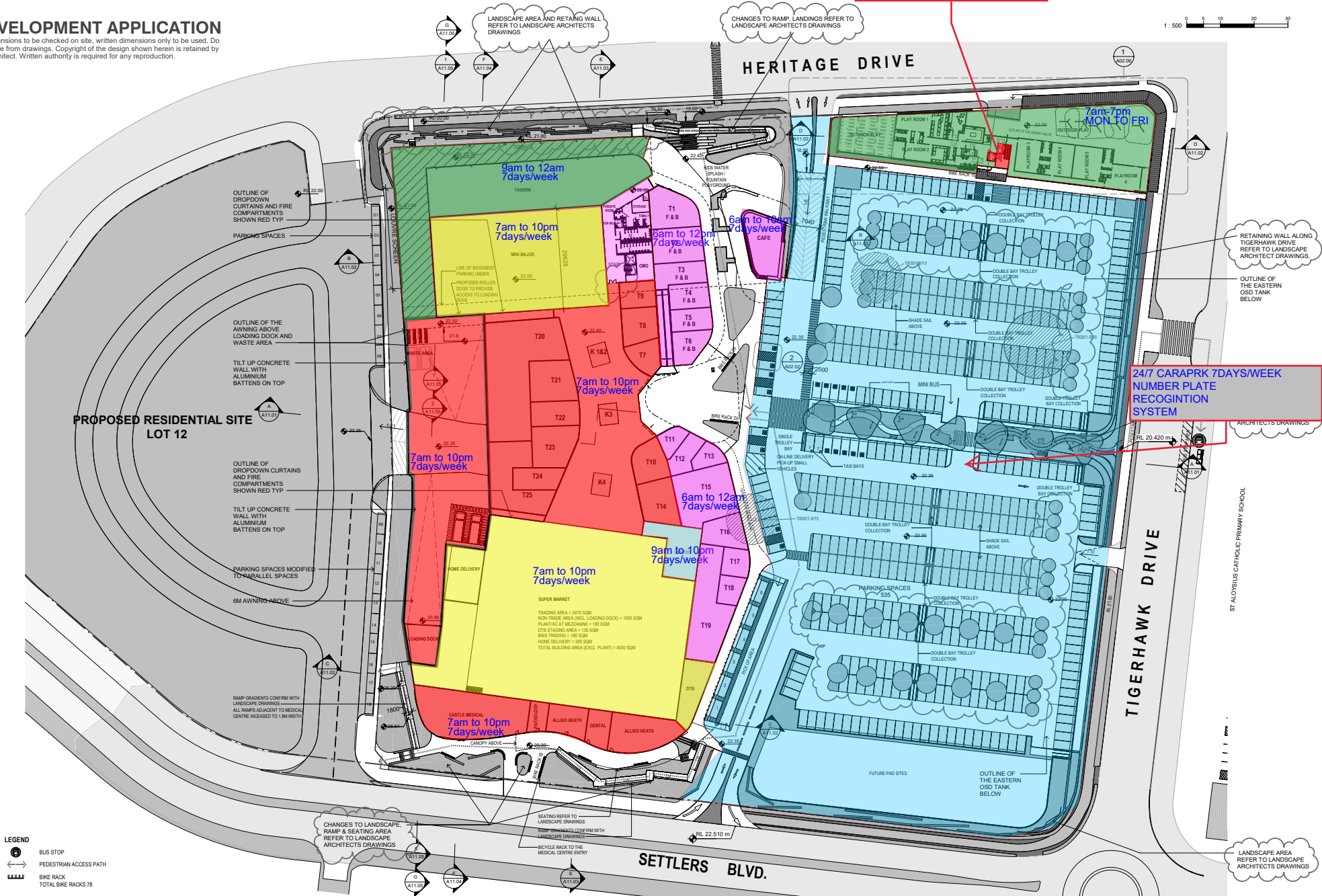
DEVELOPMENT APPLICATION

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24/7 lobby
7days/week
CARD ACCESS

1: 500

PROPOSED RESIDENTIAL SITE LOT 12



- LEGEND**
- BUS STOP
 - PEDESTRIAN ACCESS PATH
 - BIKE RACK
 - TOTAL BIKE RACKS 78

CHISHOLM SHOPPING CENTRE

HERITAGE DRIVE
CHISHOLM, NSW 2322, AUSTRALIA

ISSUE	DATE	DESCRIPTION
E	10.08.22	DA ISSUE
D	10.06.22	DA ISSUE
C	08.03.22	DA ISSUE
B	13.12.21	DA ISSUE

PROPOSED GROUND FLOOR PLAN ACCESS CONTROL PLAN

A02.03 DA - E
1:500 @ A1
1:1000 @ A3



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DEVELOPMENT APPLICATION

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DA/2021/1702

DA/2022/105

1:500 0 5 10 20 30

REFER TO APPENDIX A FOR DETAIL DESIGN FOR PROPOSED ROAD

PROPOSED RESIDENTIAL SITE LOT 12

- LEGEND
- BUS STOP
 - PEDESTRIAN ACCESS PATH
 - BIKE RACK
 - TOTAL BIKE RACKS 78

CHISHOLM SHOPPING CENTRE
HERITAGE DRIVE
CHISHOLM, NSW 2322, AUSTRALIA

ISSUE	DATE	DESCRIPTION
E	10.08.22	DA ISSUE
D	10.06.22	DA ISSUE
C	08.03.22	DA ISSUE
F1	01.09.22	DA ISSUE

PROPOSED GROUND FLOOR PLAN
SCOPE OF WORK-LINK ROAD

A02.03 DA -F1
1:500 @ A1
1:1000 @ A3



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HERITAGE DRIVE
CHISHOLM, NSW 2322 , AUSTRALIA

PROPOSED SITE PLAN

SCOPE OF WORK-LINK ROAD

1:700 @ A1
1:1400 @ A3

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Masterplanning
Graphics
Interiors

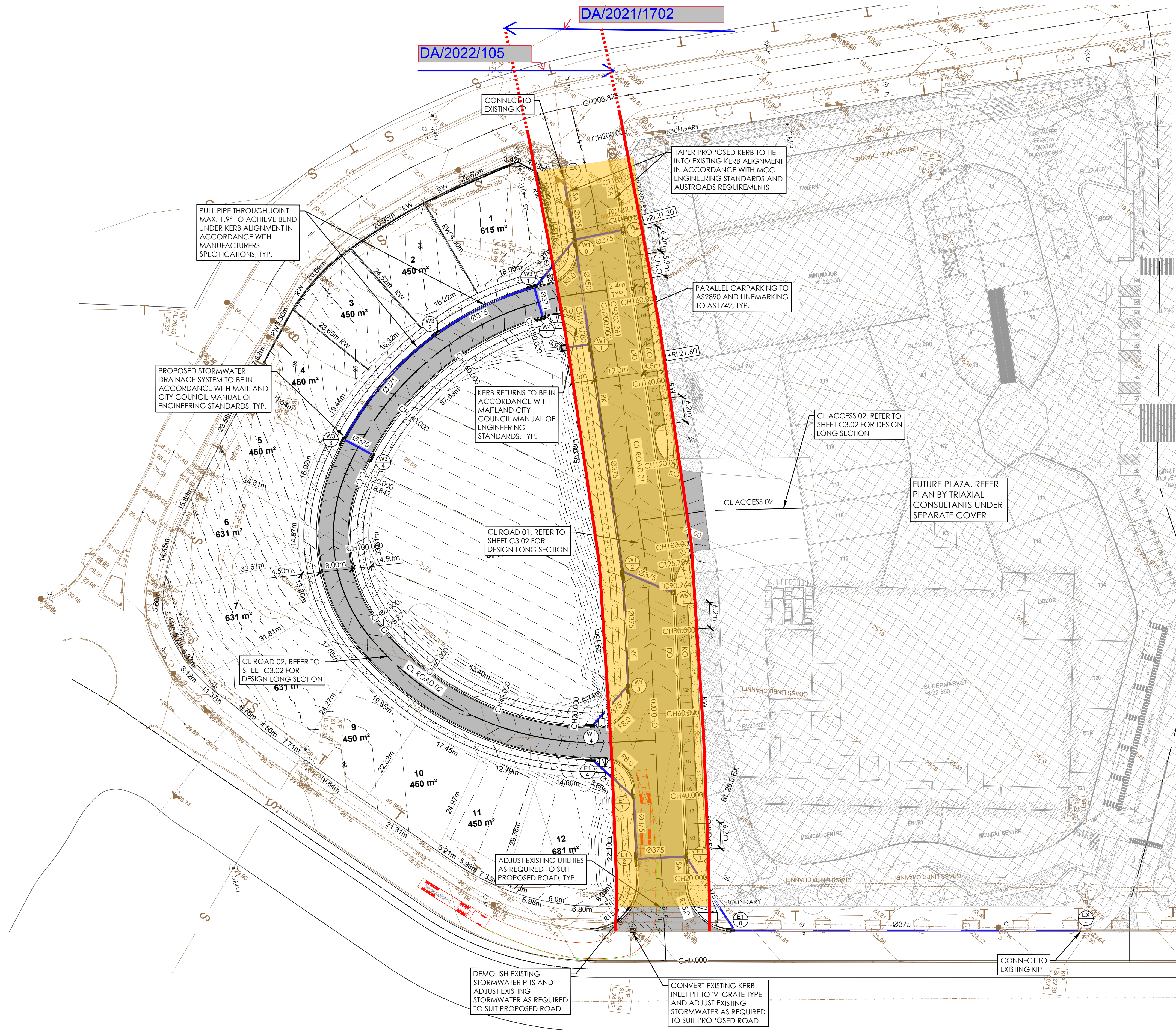
APPENDIX A

SCOPE OF WORK FOR

LINK ROAD

4 HERITAGE DRIVE CHISHOLM

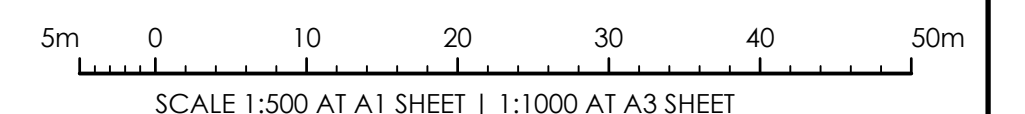
DEVELOPER: REVELOP Suite 506, Level 5, 55 Phillip St, Parramatta NSW 2150 P. 8203 0362 F. 9635 8288	ISSUE	DATE	DESCRIPTION	4 HERITAGE DRIVE CHISHOLM	A1.02
					Scale

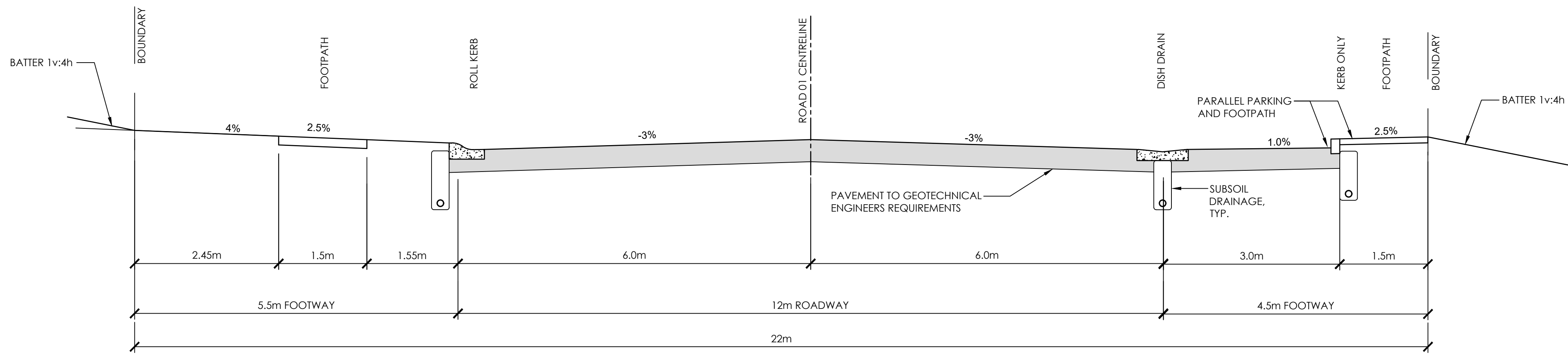


CONCEPT STORMWATER MANAGEMENT PLAN
SCALE 1:500 AT A1

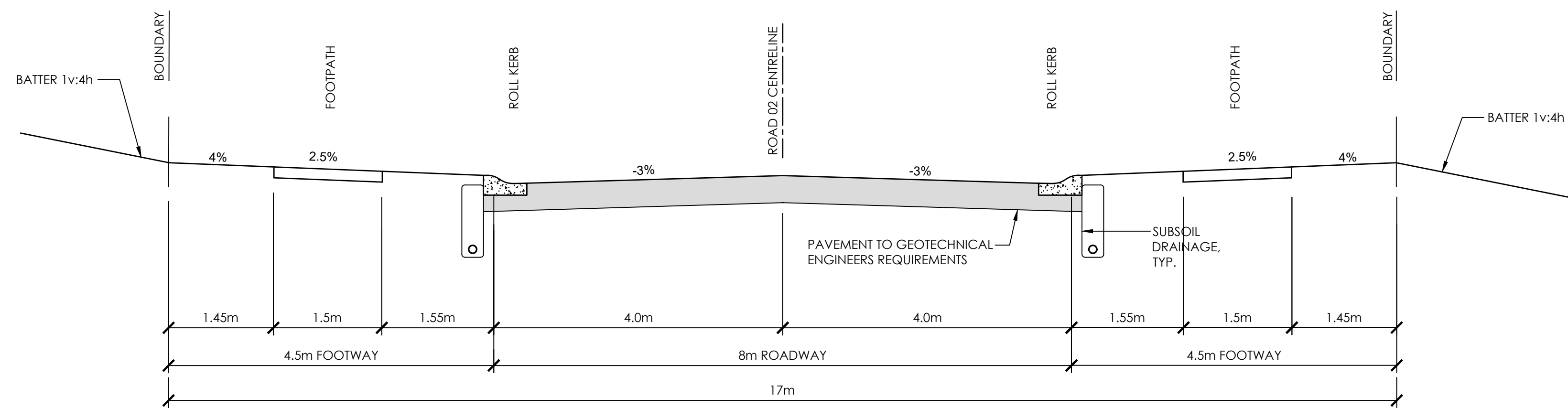
SYMBOL	DESCRIPTION
	ASPHALT PAVEMENT
	CONCRETE PATH. FINISH TO ARCHITECTS DETAIL
	FINISHED SURFACE MAJOR CONTOURS (1.0m INTERVAL)
	FINISHED SURFACE MINOR CONTOURS (0.2m INTERVAL)
	EXISTING SURFACE CONTOURS (1.0m INTERVAL)
	GRATED INLET PIT (GIP) (U.N.O.)
	JUNCTION PIT (JP) (U.N.O.)
	KERB INLET PIT (KIP) (U.N.O.)
	STORMWATER PIPE @ 1% MIN. U.N.O.
	DD DISH DRAIN TO MAITLAND COUNCIL STANDARD DRAWINGS.
	SA SA TYPE KERB AND GUTTER TO MAITLAND COUNCIL STANDARD DRAWINGS.
	RK ROLL TOP KERB AND GUTTER TO MAITLAND COUNCIL STANDARD DRAWINGS.
	RW RETAINING WALL DETAIL BY OTHERS
	RL54.20 NOMINAL FINISHED SURFACE LEVEL

NOTE:
THIS IS A PLANNING DRAWING ONLY, FOR THE PURPOSE OF CONCEPTUAL DESIGN AND/OR PLANNING. FURTHER DETAILED ENGINEERING DESIGN INCLUDING SPECIFICATIONS, SIZING AND STORMWATER INVERTS TO BE PROVIDED PRIOR TO BUILDING RULES ASSESSMENT AND CONSTRUCTION.

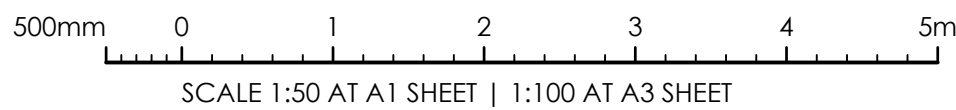




TYPICAL SECTION - ROAD 01
SCALE 1:50



TYPICAL SECTION - ROAD 02
SCALE 1:50



REVISED LAYOUT - DA ISSUE	25.08.22	C	JG
ROAD DIMENSION ADJUSTED	20.01.22	B	CW
ISSUE FOR DA	22.12.21	A	JG
AMENDMENTS	DATE	ISSUE	BY

NORTH POINT U.N.O.

ARCHITECT
BN ARCHITECTURE
82 ALEXANDER STREET
CROWS NEST, NSW 2065

CLIENT
REVELOP
SUITE 506, LEVEL 5/55
PHILLIP STREET
PARRAMATTA NSW 2150

PROJECT
PROPOSED SUBDIVISION
HERITAGE DRIVE
CHISHOLM NSW 2322

DESIGNED BK	DRAWN JG	DATE AUG 22	SIZE A1	CAD REF TX15901.00
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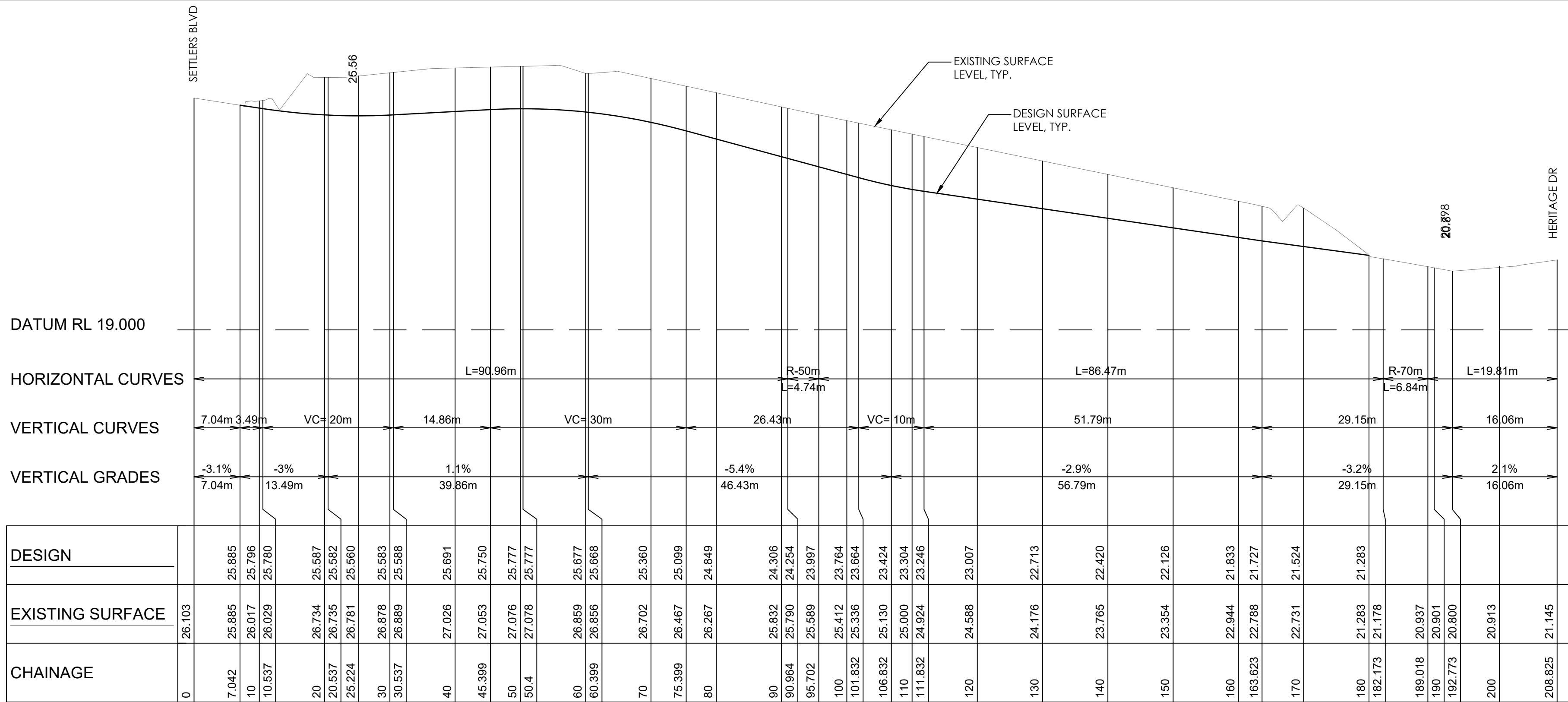
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COMPLEX PROBLEMS
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TO BE PRINTED IN COLOUR

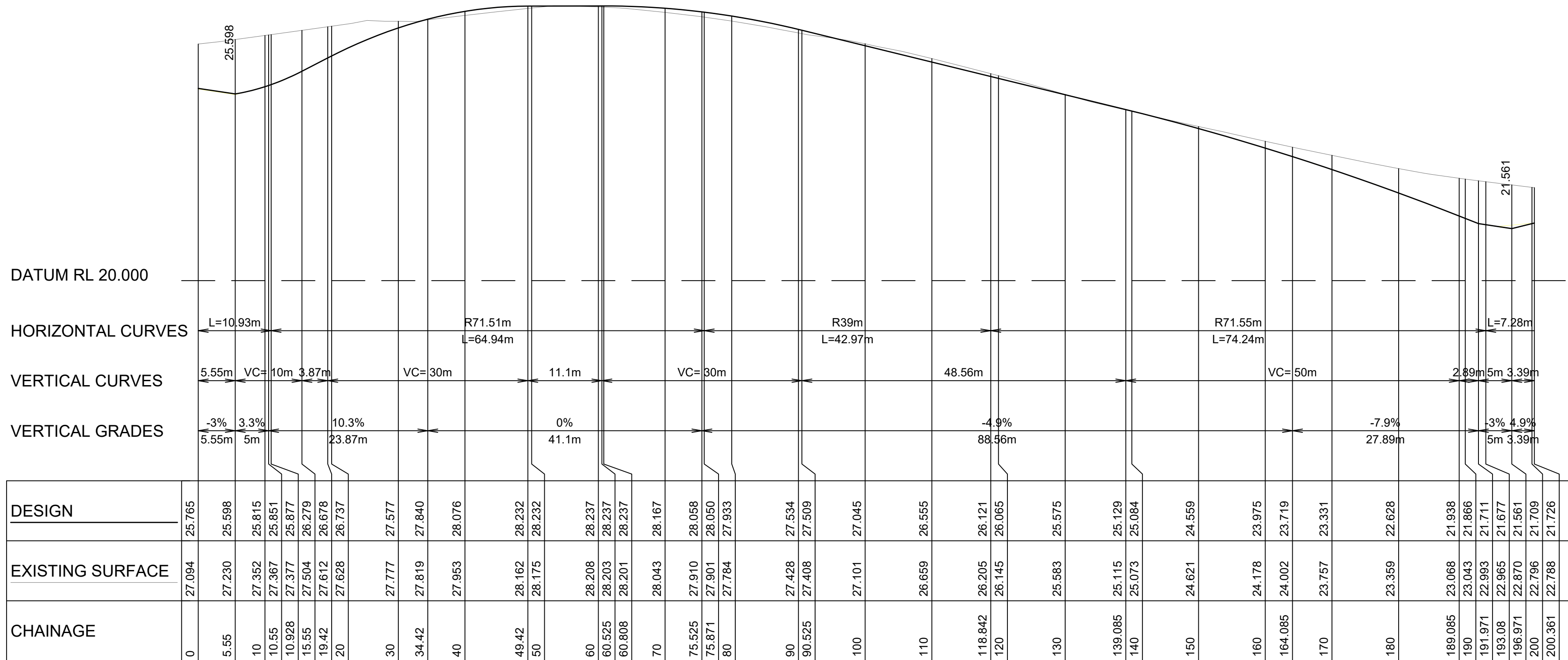
DRAWING TITLE
TYPICAL ROAD CROSS SECTIONS

PROJECT No.	DRAWING No.	ISSUE
TX15901.00	C3.01	C



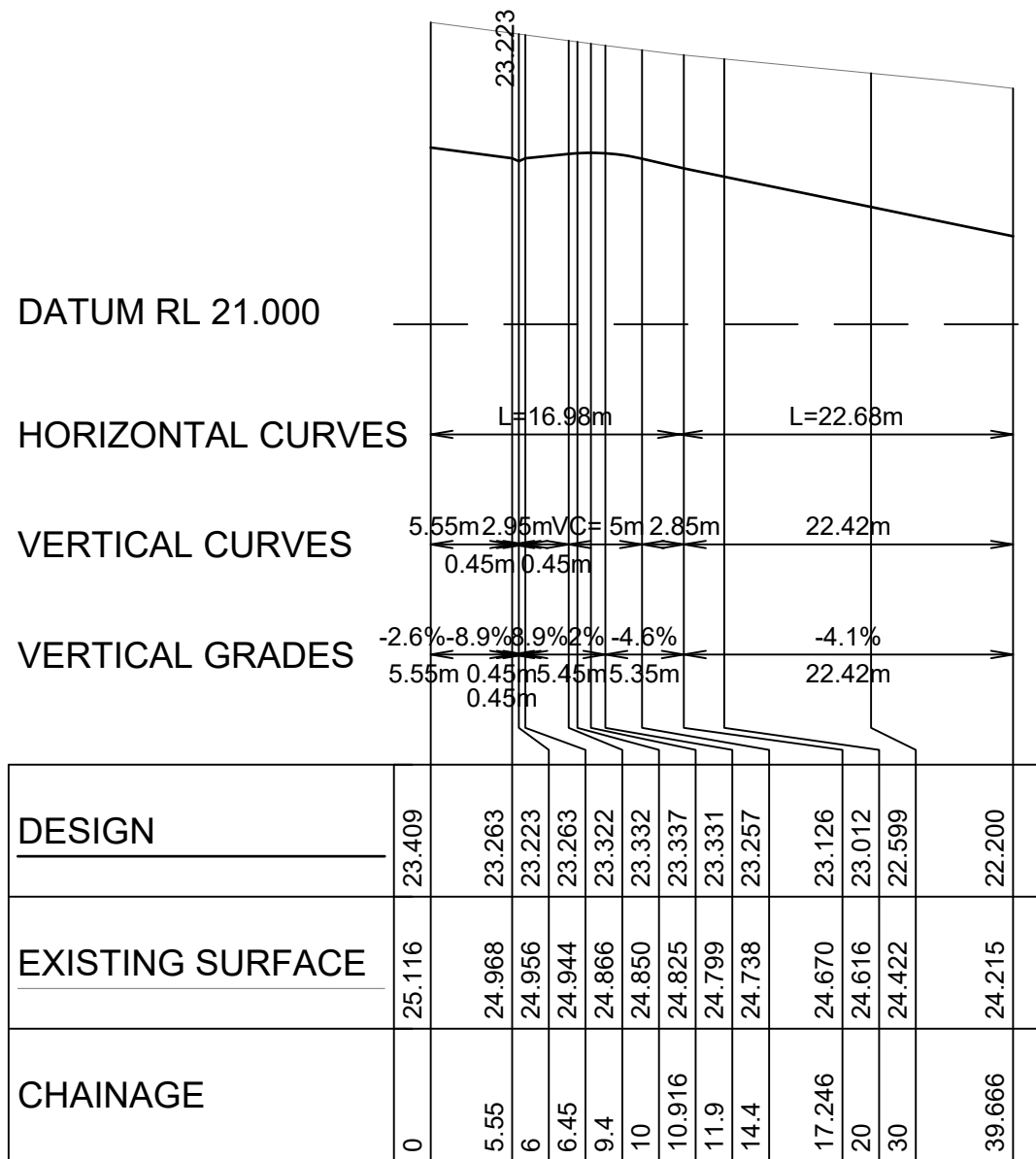
ROAD 01 CL - LONGITUDINAL SECTION

A1 HORZ SCALE 1:500
A1 VERT SCALE 1:100



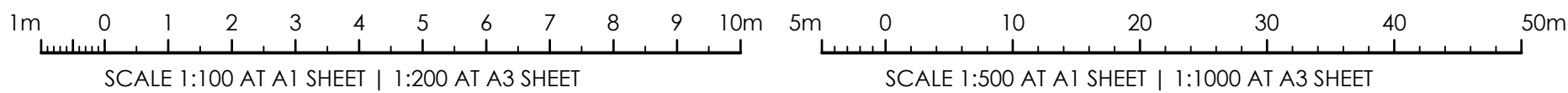
ROAD 02 CL - LONGITUDINAL SECTION

A1 HORZ SCALE 1:500
A1 VERT SCALE 1:100



ACCESS 02 CL - LONGITUDINAL SECTION

A1 HORZ SCALE 1:500
A1 VERT SCALE 1:100



REVISED LAYOUT - DA ISSUE
ISSUE FOR DA
AMENDMENTS

25.08.22
22.12.21
DATE

B
A
ISSUE

JG
JG
BY

NORTH POINT U.N.O.

ARCHITECT

BN ARCHITECTURE
82 ALEXANDER STREET
CROWS NEST, NSW 2065

CLIENT

REVELOP
SUITE 506, LEVEL 5/55
PHILLIP STREET
PARRAMATTA NSW 2150

PROJECT

PROPOSED SUBDIVISION
HERITAGE DRIVE
CHISHOLM NSW 2322

DESIGNED
BK

DRAWN
JG

DATE
AUG 22

SIZE
A1

CAD REF
TX15901.00



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DRAWING TITLE

CONCEPT ROAD AND DRIVEWAY
ACCESS LONGITUDINAL
SECTIONS

PROJECT No.

TX15901.00

DRAWING No.

C3.02

ISSUE

B

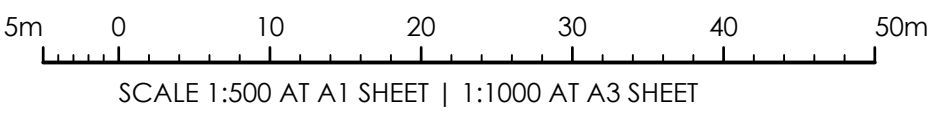


PRE-DEVELOPMENT CATCHMENT PLAN
SCALE 1:500 AT A1

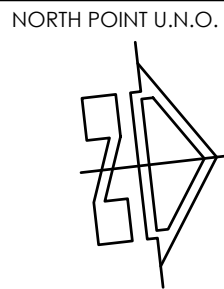
LEGEND	
SYMBOL	DESCRIPTION
	EASTERN PRE-DEVELOPMENT CATCHMENT BOUNDARY
	WESTERN PRE-DEVELOPMENT CATCHMENT BOUNDARY. DRAINS TO EXISTING DETENTION BASIN TO THE NORTH WEST.

CATCHMENT	AREA (ha)	IMPERVIOUS (%)	PERVIOUS (%)	10% AEP PEAK FLOW (m³ / s)	1% AEP PEAK FLOW (m³ / s)
WEST CATPRE	1.3883	60	40	0.432	0.774
EAST CATPRE	0.3082	60	40	0.096	0.172

NOTE: R1 GENERAL RESIDENTIAL 60% PAVED IN ACCORDANCE WITH MCC MANUAL OF ENGINEERING STANDARDS



REVISED LAYOUT - DA ISSUE	25.08.22	B	JG
ISSUE FOR DA	22.12.21	A	JG
AMENDMENTS	DATE	ISSUE	BY



ARCHITECT
BN ARCHITECTURE
82 ALEXANDER STREET
CROWS NEST, NSW 2065

CLIENT
REVELOP
SUITE 506, LEVEL 5/55
PHILLIP STREET
PARRAMATTA NSW 2150

PROJECT
PROPOSED SUBDIVISION
HERITAGE DRIVE
CHISHOLM NSW 2322

DESIGNED BK	DRAWN JG	DATE AUG 22	SIZE A1	CAD REF TX15901.00
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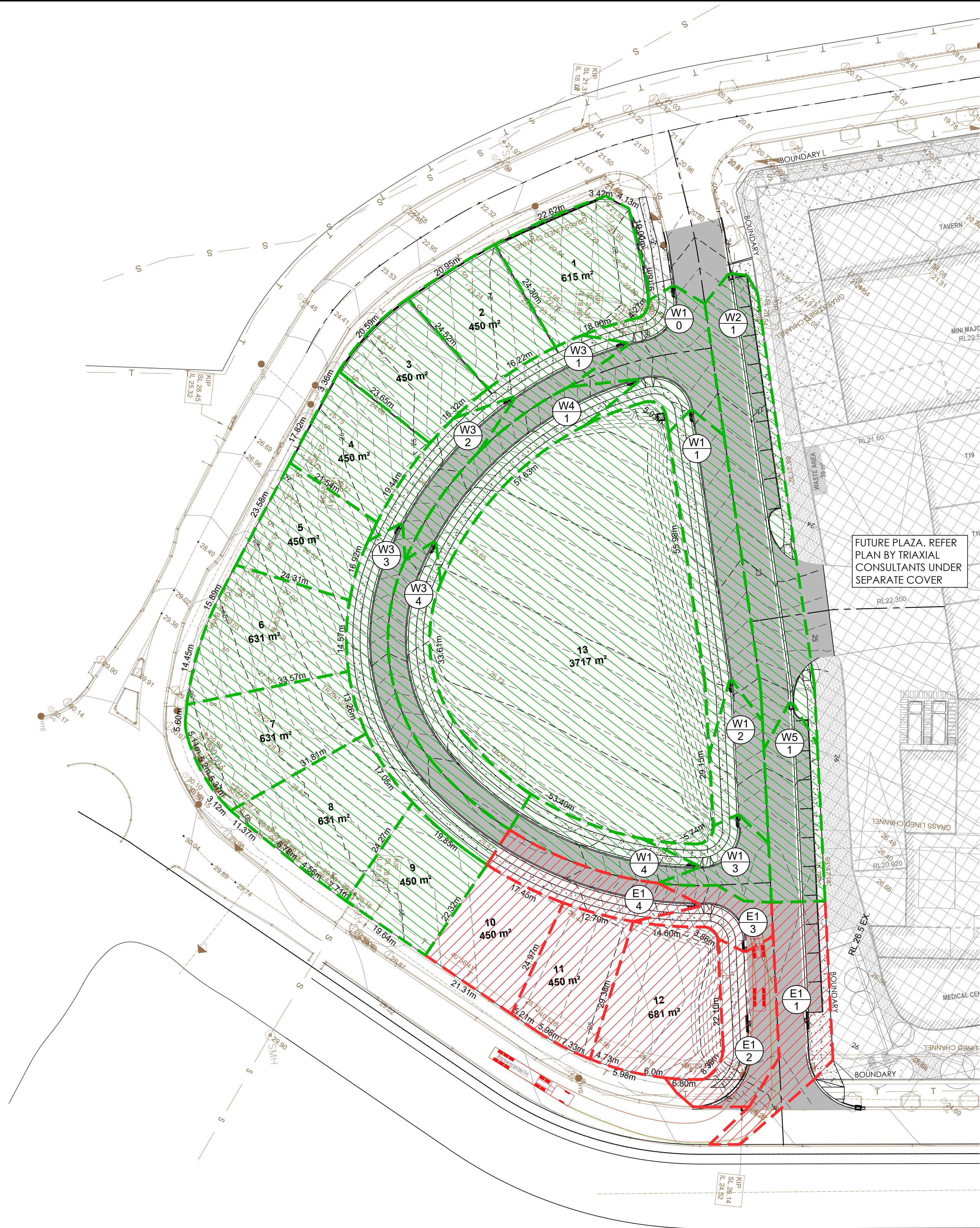
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DRAWING TITLE
**PRE DEVELOPMENT
STORMWATER CATCHMENT PLAN**

PROJECT No.	DRAWING No.	ISSUE
TX15901.00	C3.03	B

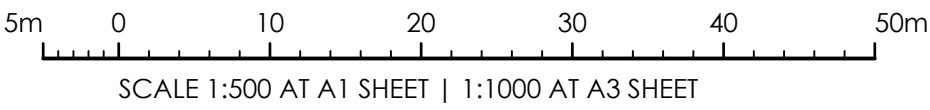


LEGEND	
SYMBOL	DESCRIPTION
	EASTERN POST-DEVELOPMENT CATCHMENT BOUNDARY
	WESTERN POST-DEVELOPMENT CATCHMENT BOUNDARY DRAINS TO EXISTING DETENTION BASIN TO THE NORTH WEST.

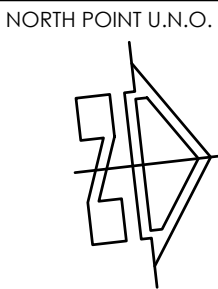
ALLOTMENT PERMISSIBLE SITE DISCHARGE			
EASTERN CATCHMENT			
LOT	AREA (m²)	PSD (L/S)	
		10% AEP	1% AEP
10	450	11.1	20.2
11	450	11.1	20.2
12	681	16.8	30.6
TOTAL	1581	39	71

CATCHMENT	AREA (ha)	IMPERVIOUS (%)	PERVIOUS (%)	10% AEP PEAK FLOW (m³/s)	1% AEP PEAK FLOW (m³/s)
WEST CAT PRE	1.3883	60	40	0.432	0.774
EAST CAT PRE	0.3082	60	40	0.096	0.172
CATE1/4	0.0322	75	25	0.012	0.022
CATE1/3	0.0187	75	25	0.008	0.014
CATE1/2	0.0405	75	25	0.016	0.030
CATE1/1	0.0493	90	10	0.022	0.038
CATW2/1	0.0994	90	10	0.043	0.073
CATW1/0	0.0482	80	20	0.020	0.035
CATW4/1	0.0433	70	30	0.016	0.028
CATW3/1	0.0229	70	30	0.009	0.016
CATW1/4	0.0288	70	30	0.011	0.020
CATW1/3	0.0236	70	30	0.009	0.017
CATW1/2	0.0268	70	30	0.010	0.019
CATW1/1	0.0655	70	30	0.024	0.042
CATW5/1	0.0399	100	0	0.019	0.031
CATW3/4	0.0523	70	30	0.019	0.034
CATW3/3	0.0632	70	30	0.023	0.041
CATW3/2	0.0273	70	30	0.010	0.019

POST DEVELOPMENT CATCHMENT PLAN
SCALE 1:500 AT A1



REVISED LAYOUT - DA ISSUE	25.08.22	B	JG
ISSUE FOR DA	22.12.21	A	JG
AMENDMENTS	DATE	ISSUE	BY



ARCHITECT
BN ARCHITECTURE
82 ALEXANDER STREET
CROWS NEST, NSW 2065

CLIENT
REVELOP
SUITE 506, LEVEL 5/55
PHILLIP STREET
PARRAMATTA NSW 2150

PROJECT
PROPOSED SUBDIVISION
HERITAGE DRIVE
CHISHOLM NSW 2322

DESIGNED BK
DRAWN JG
DATE AUG 22
SIZE A1
CAD REF TX15901.00



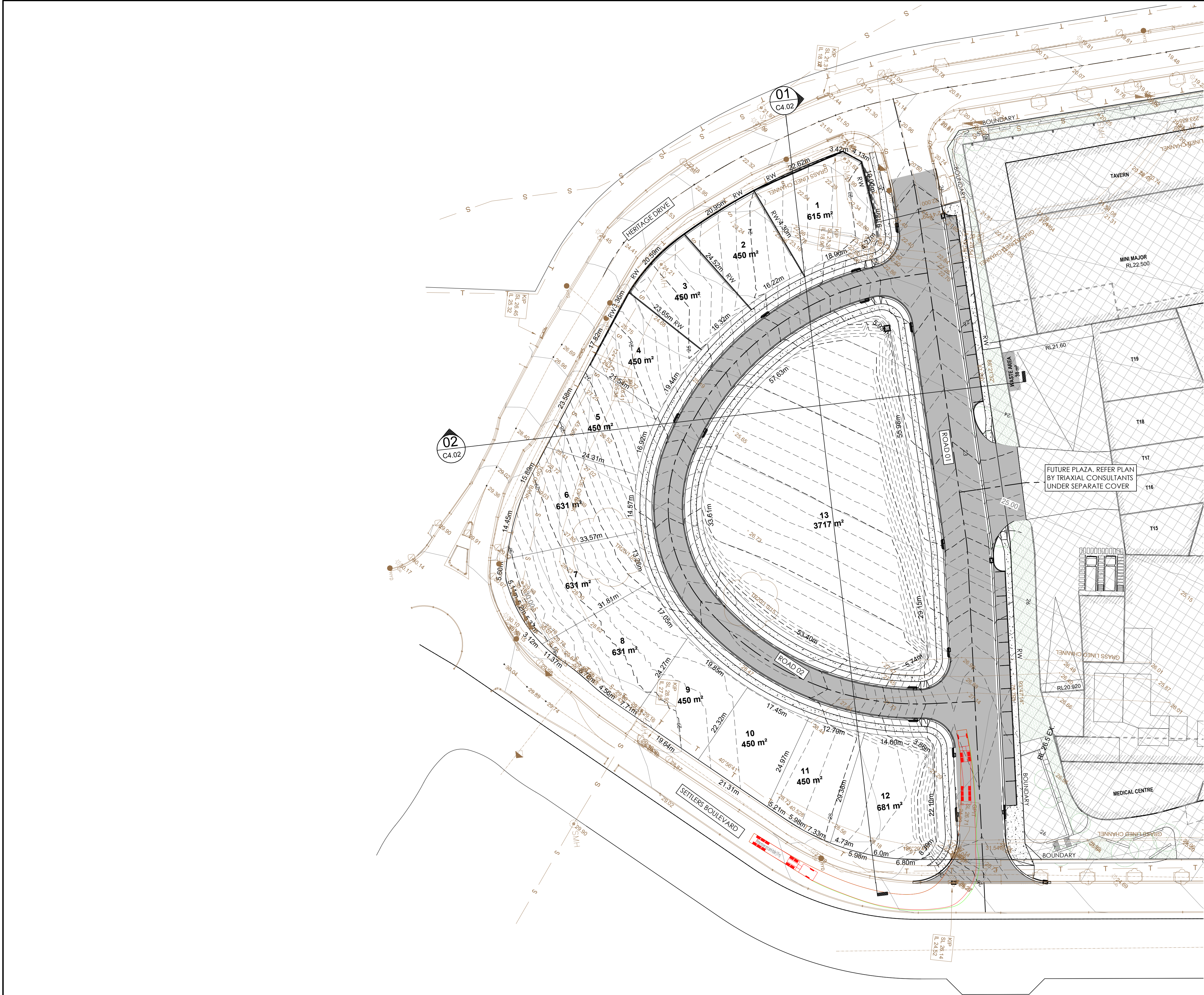
TRIAXIAL
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COMPLEX PROBLEMS
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1300 874 294 | TRIAXIAL.COM.AU
UNIT 5, 166 HANNELL STREET, MARYVILLE NSW 2293
PO BOX 3197, TUGGERAH NSW 2259

TO BE PRINTED IN COLOUR

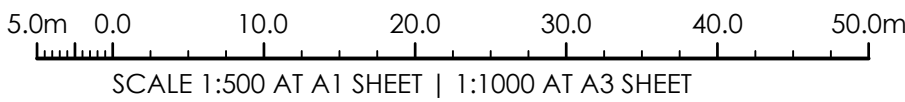
DRAWING TITLE
**POST DEVELOPMENT
STORMWATER CATCHMENT PLAN**

PROJECT No. TX15901.00
DRAWING No. C3.04
ISSUE B



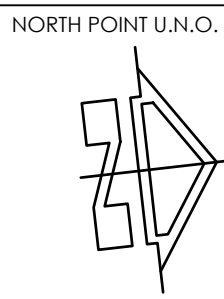
LEGEND	
SYMBOL	DESCRIPTION
	ASPHALT PAVEMENT
	CONCRETE PATH, FINISH TO ARCHITECTS DETAIL
	FINISHED SURFACE MAJOR CONTOURS (1.0m INTERVAL)
	FINISHED SURFACE MINOR CONTOURS (0.2m INTERVAL)
	EXISTING SURFACE CONTOURS (1.0m INTERVAL)
	RW RETAINING WALL DETAIL BY OTHERS
	NOMINAL FINISHED SURFACE LEVEL

CONCEPT BULK EARTHWORKS PLAN
SCALE 1:500 AT A1



REVISED LAYOUT - DA ISSUE
ISSUE FOR DA
AMENDMENTS

25.08.22
22.12.21
DATE
B
A
ISSUE
JG
JG
BY



ARCHITECT
BN ARCHITECTURE
82 ALEXANDER STREET
CROWS NEST, NSW 2065

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HERITAGE DRIVE
CHISHOLM NSW 2322

DESIGNED BK
DRAWN JG
DATE AUG 22
SIZE A1
CAD REF TX15901.00



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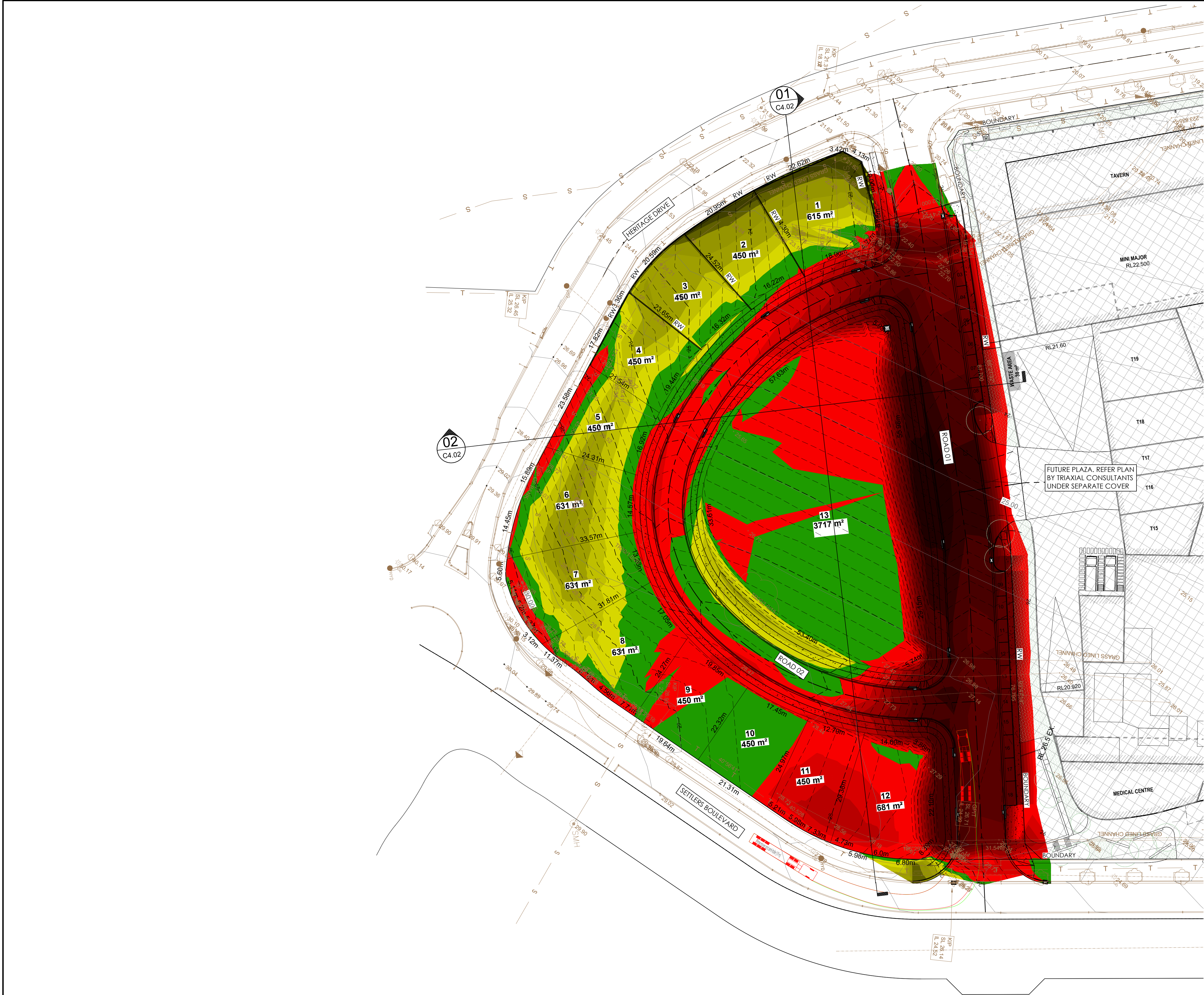
1300 874 294 | TRIAXIAL.COM.AU
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DRAWING TITLE
CONCEPT BULK EARTHWORKS
PLAN

PROJECT No. TX15901.00
DRAWING No. C4.00
ISSUE A

NOT FOR CONSTRUCTION



EARTHWORKS DEPTH RANGE (m)

-2.0	to	-1.8	0.1	
-1.8	to	-1.6	0.1	
-1.6	to	-1.4	0.1	
-1.4	to	-1.2	0.1	
-1.2	to	-1.0	0.1	
-1.0	to	-0.8	0.1	
-0.8	to	-0.6	0.1	
-0.6	to	-0.4	0.1	
-0.4	to	-0.2	0.1	
-0.2	to	0	0.1	
0	to	0.2	0.1	
0.2	to	0.4	0.1	
0.4	to	0.6	0.1	
0.6	to	0.8	0.1	
0.8	to	1.0	0.1	
1.0	to	1.2	0.1	
1.2	to	1.4	0.1	
1.4	to	1.6	0.1	
1.6	to	1.8	0.1	
1.8	to	2.0	0.1	

BULK EARTHWORKS NOTES

1. THE CONCEPTUAL BULK EARTHWORK LEVELS SHOWN ARE NOMINAL FINISHED SURFACE LEVEL. FINAL DETAIL TO BE CONFIRMED AT CC STAGE
2. RETAINING WALL DETAILS AND LEVELS TO BE STRUCTURALLY DESIGNED AND CONFIRMED AT CC STAGE.
3. SITE CONDITIONS, COMPACTION REQUIREMENTS, TEMPORARY BATTERS AND FILLING TO BE IN ACCORDANCE WITH GEOTECHNICAL ENGINEERS REQUIREMENTS.

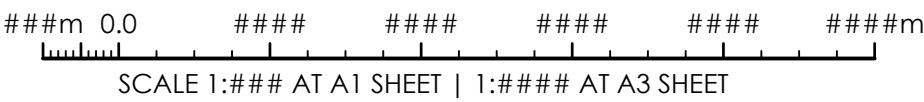
CONCEPTUAL EARTHWORKS VOLUMES

STRIP AREA OF WORKS AND STOCKPILE FOR RE-USE IN ACCORDANCE WITH GEOTECH ENGINEERS RECOMMENDATIONS.

CONCEPTUAL BULKEARTHWORKS VOLUMES (m³)

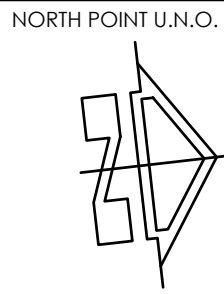
TOTAL SITE CUT VOLUME	= 6815m³ NOM.
TOTAL SITE FILL VOLUME	= 2112m³ NOM.

CONCEPT BULK EARTHWORKS DEPTH RANGES
SCALE 1:500 AT A1



REVISED LAYOUT - DA ISSUE
ISSUE FOR DA
AMENDMENTS

24.08.22
22.12.21
DATE
B
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BN ARCHITECTURE
82 ALEXANDER STREET
CROWS NEST, NSW 2065

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HERITAGE DRIVE
CHISHOLM NSW 2322

DESIGNED
BK
DRAWN
JG
DATE
AUG 22
SIZE
A1
CAD REF
TX15901.00



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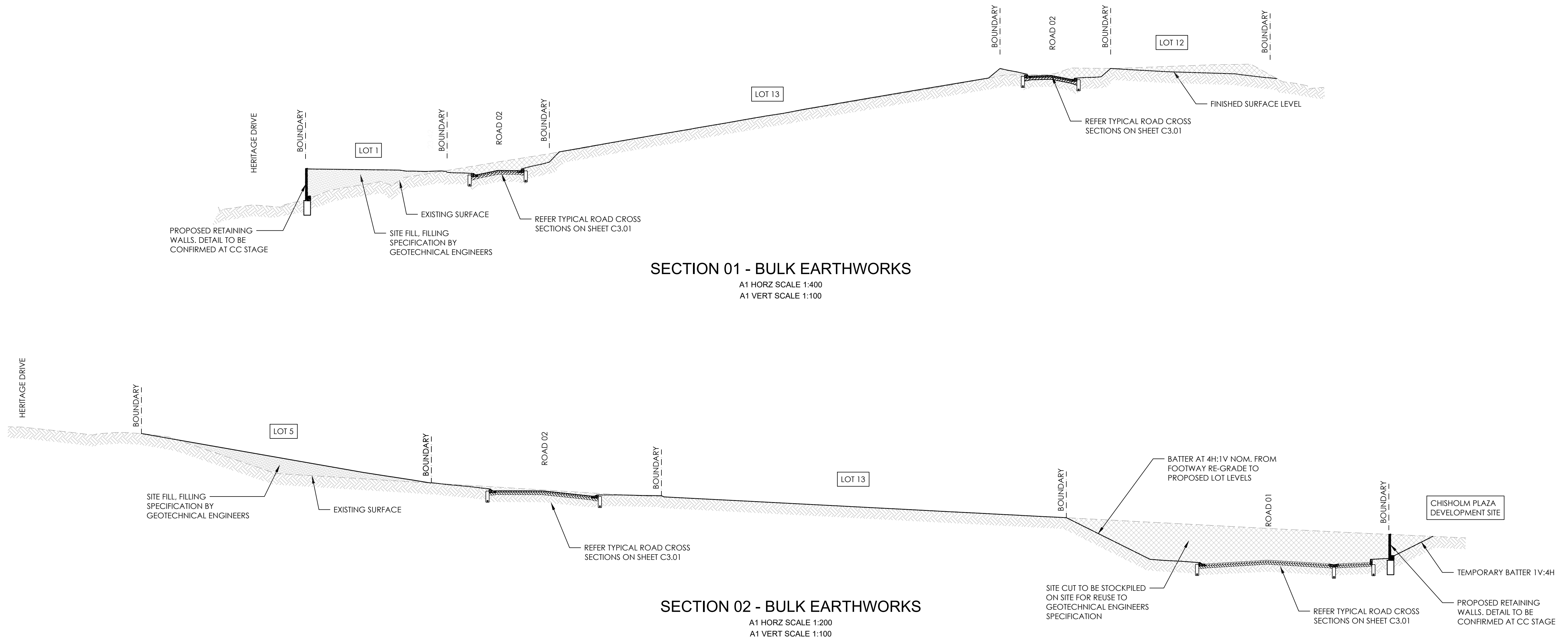
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PO BOX 3197, TUGGERAH NSW 2259

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DRAWING TITLE
CONCEPT BULK EARTHWORKS
DEPTH RANGES

PROJECT No.
TX15901.00
DRAWING No.
C4.01
ISSUE
A

NOT FOR CONSTRUCTION



REVISED LAYOUT - DA ISSUE
AMENDMENTS

24.08.22	A	JG
DATE	ISSUE	BY

NOT FOR CONSTRUCTION

NORTH POINT U.N.O.

ARCHITECT
BN ARCHITECTURE
82 ALEXANDER STREET
CROWS NEST, NSW 2065

CLIENT
REVELOP
SUITE 506, LEVEL 5/55
PHILLIP STREET
PARRAMATTA NSW 2150

PROJECT
PROPOSED SUBDIVISION
HERITAGE DRIVE
CHISHOLM NSW 2322

DESIGNED BK	DRAWN JG	DATE AUG 22	SIZE A1	CAD REF TX15901.00
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TO BE PRINTED IN COLOUR

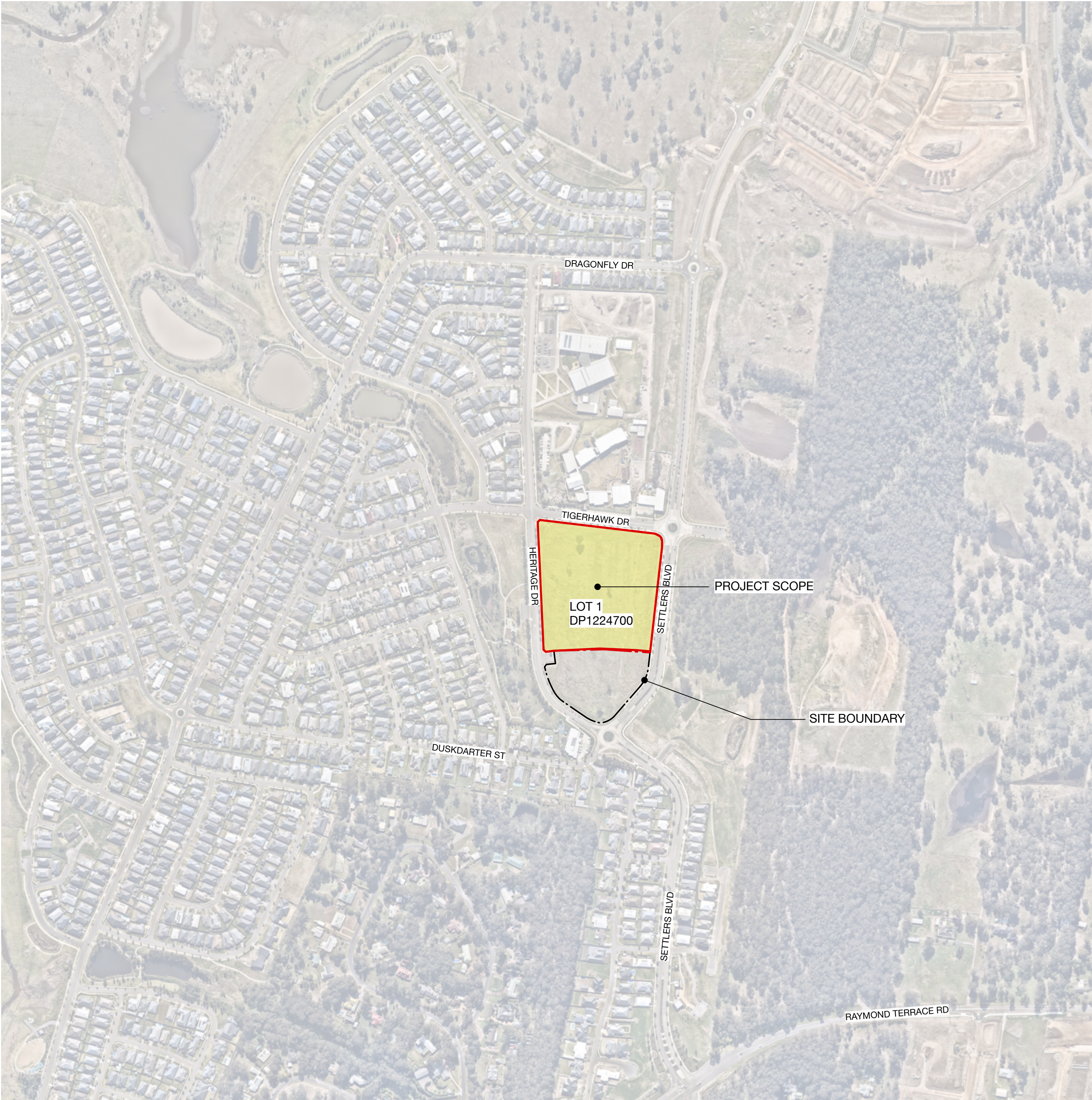
DRAWING TITLE
CONCEPT BULK EARTHWORKS
SECTIONS

PROJECT No. TX15901.00	DRAWING No. C4.02	ISSUE A
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CHISHOLM CENTRE COMMERCIAL PRECINCT

LANDSCAPE DEVELOPMENT APPLICATION DOCUMENTATION (DA)

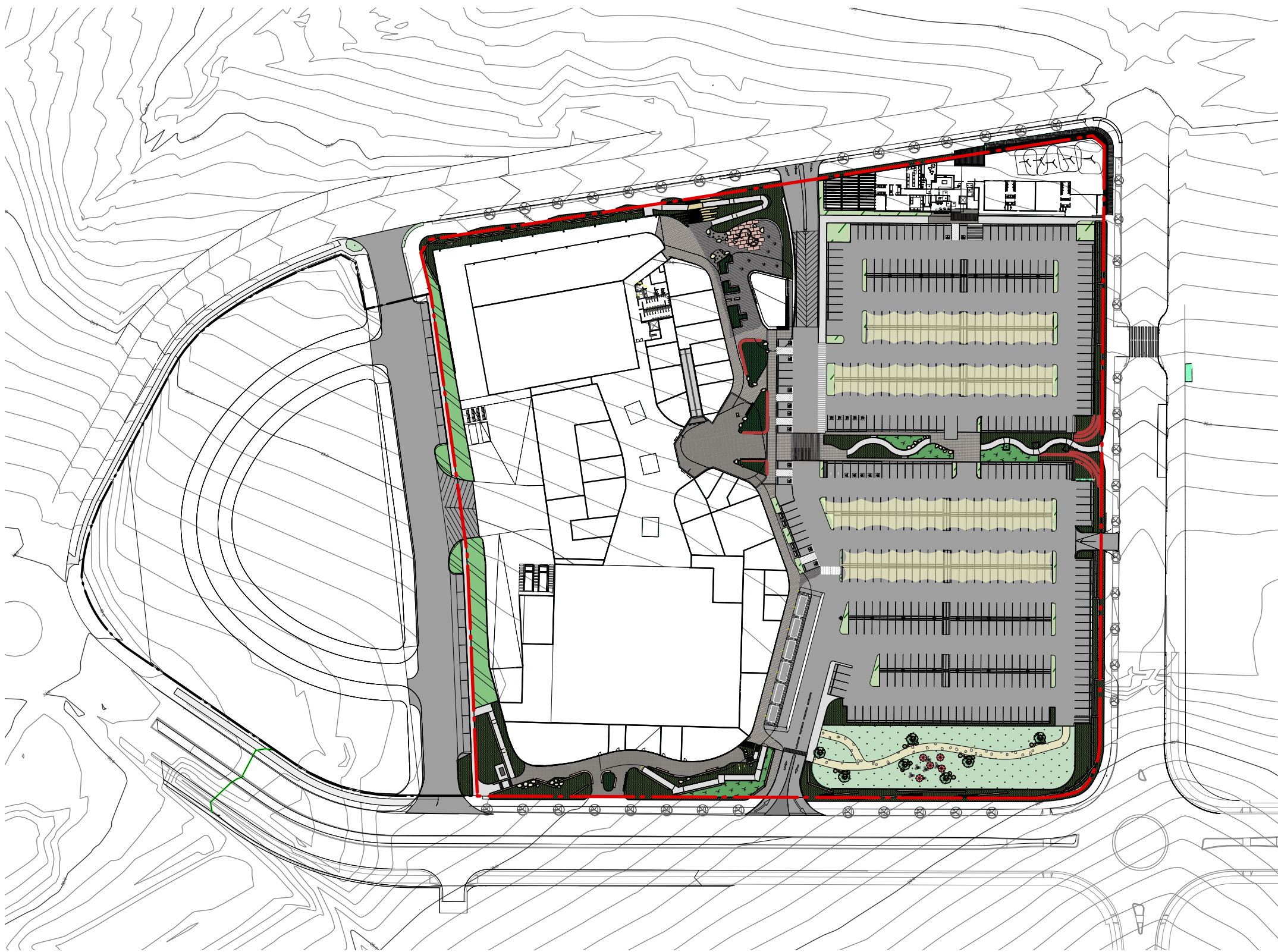
LOT 1 DP1224700 HERITAGE DRIVE, CHISHOLM, NSW 2322



LOCALITY PLAN
Scale 1:5000 @ A1
Source: Nearmap, 2021

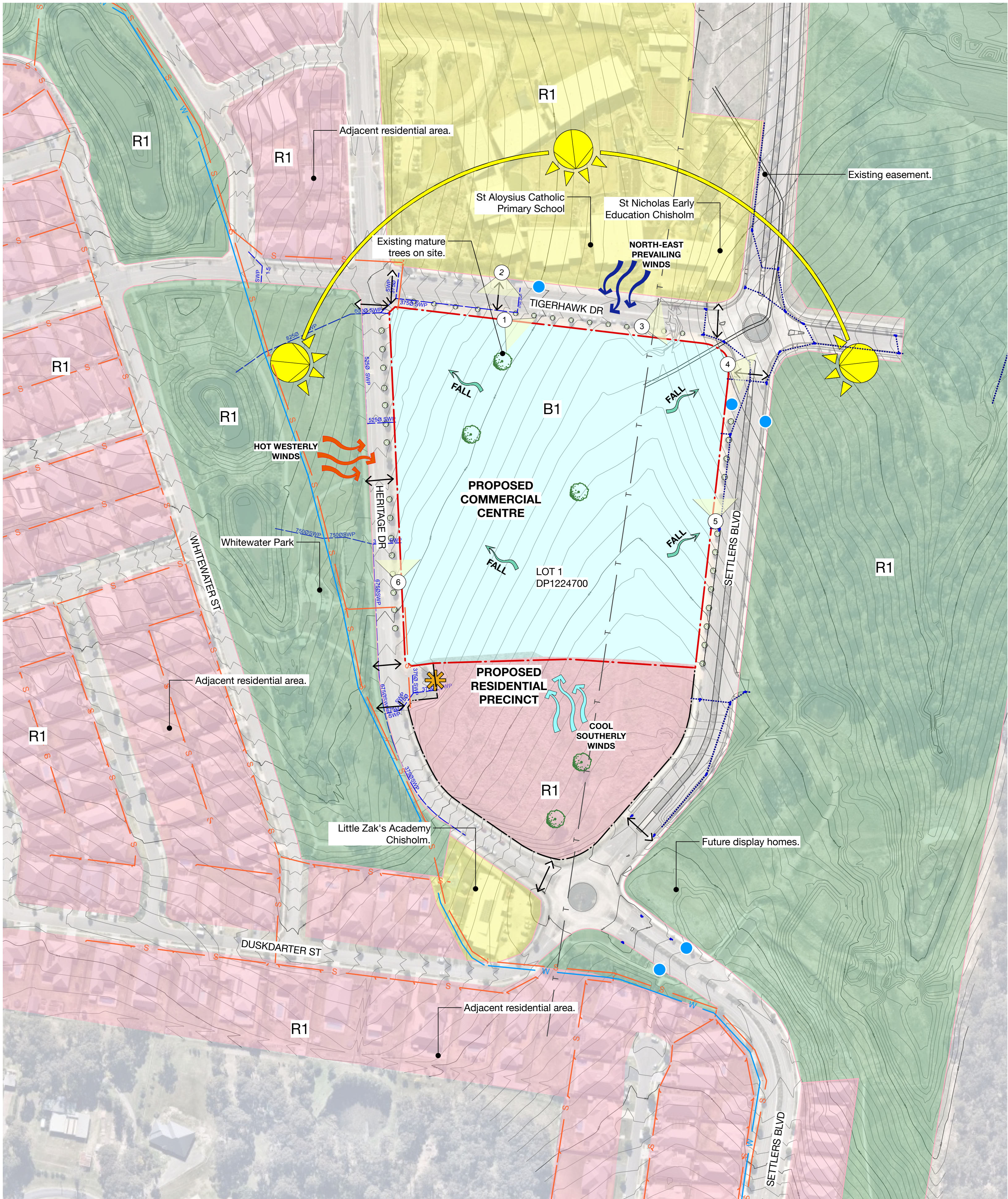
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Sheet No.	Drawing Title	Revision	Date
LP01	COVER SHEET	E	9/8/2022
LP02	SITE ANALYSIS PLAN	E	9/8/2022
LP03	KEY PLAN	E	9/8/2022
LP04	LANDSCAPE PLAN 01	E	9/8/2022
LP05	LANDSCAPE PLAN 02	E	9/8/2022
LP06	LANDSCAPE PLAN 03	E	9/8/2022
LP07	LANDSCAPE PLAN 04	E	9/8/2022
LP08	PLANTING SCHEDULE	E	9/8/2022
LP09	SECTIONS A-C	E	9/8/2022
LP10	SECTIONS D-G	E	9/8/2022
LP11	SECTIONS H-J	E	9/8/2022
LP12	THEMING	E	9/8/2022



SITE PLAN
Scale 1:1500 @ A1

0 30 60 90m



SITE ANALYSIS PLAN
Scale 1:1500 @ A1



1. View across site from northern boundary at Tigerhawk Drive, with residential area seen in the distance.



2. Pedestrian crossing along Tigerhawk Drive looking towards existing mature tree on site.



3. View from site looking across to the early childcare centre, located to the north-east of the site.



4. View from Settlers Boulevard across to vacant land and Eucalyptus trees to the east of the site.



5. Street tree and verge planting along Settlers Boulevard to the east.

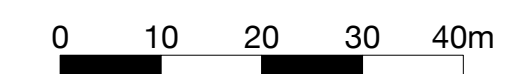


6. Heritage Drive streetscape along western site boundary. Entrance to Whitewater park shown across the road.

LEGEND	
	Site boundary
	Lot boundary
	Existing major contour (5m interval)
	Existing minor contour (0.5m interval)
	Site cross fall
	Existing drainage
	Existing sewer lines
	Existing telstra lines
	Existing water lines
	Existing stormwater lines
	Pedestrian crossing
	Bus stop
	Existing tree
	Entry / Exit
	Wind direction
	Neighbourhood Centre
	Adjacent Residential
	Adjacent Open Space - zoned R1
	Adjacent School - zoned R1
	Photograph Marker Location



KEY PLAN
Scale 1:750 @ A1





LEGEND	
	Site boundary
	Lot boundary
	Existing major contour (5m interval)
	Existing minor contour (0.5m interval)
	Outline of basement carpark below
	Existing street tree - to be retained & protected
	Existing tree - to be removed
	Existing concrete footpath
	Hot mix asphalt pavement
	Concrete pavement
	Paving type 1
	Paving type 2
	Cobble feature paving
	Timber decking
	Rubber soft fall tiles
	Turf
	Gravel
	Sandstone log
	Gabion retaining
	Corten balustrade / retaining
	1m Permeable balustrade
	Formed concrete / concrete block wall
	Sandstone boulders
	Water feature
	Bar seating
	Floating timber seating
	Timber bench seat with backrests
	1.2m vertical batten balustrade
TREES	
	<i>Cupaniopsis anacardioides</i> Tuckeroo
	<i>Elaeocarpus eumundi</i> Smoothed leaved Quandong
	<i>Eucalyptus sideroxylon rosea</i> Red Flowering Ironbark
	<i>Pyrus calleryana</i> 'Capital' Capital Flowering Pear
	<i>Tristania laurina</i> 'Luscious' Watergum
	<i>Ulmus parvifolia</i> 'Burnley Select' Chinese Elm
SHRUBS / GRASSES / ACCENT PLANTS	
	<i>Anigozanthos flavidus</i> Kangaroo Paw
	<i>Correa alba</i> White Correa
	<i>Doryanthes Excelsa</i> Gynea Lily
	<i>Phormium tenax</i> 'Bronze Baby' Bronze Flax
	<i>Phormium tenax</i> 'Purpureum' New Zealand Flax
	<i>Photinia x fraseri</i> 'Robusta' Photinia
MASS PLANTING	
	Mass planting Type 3 - 4/m ² - <i>Aspidistra elatior</i> - <i>Liriope muscari</i> - <i>Philodendron xanadu</i> - <i>Senecio serpens</i> - <i>Viola hederacea</i>
	Mass Planting Type 2 - 3/m ² - <i>Carpobrotus glaucescens</i> - <i>Lomandra longifolia</i> 'Tanika' - <i>Pennisetum alopecuroides</i> - <i>Westringia fruticosa</i> 'Grey Box' - <i>Westringia fruticosa</i> 'Mundi'
	Mass Planting Type 3 - 3/m ² - <i>Dianella caerulea</i> - <i>Philodendron</i> 'Xanadu' - <i>Trachelospermum asiaticum</i> 'Flat Mat'
	Mass Planting Type 4 - 3/m ² - <i>Lomandra longifolia</i> 'Tanika' - <i>Pennisetum alopecuroides</i>
	Mass Planting Type 5 - Basin 4/m ² - <i>Carex apresia</i> - <i>Ficinia nodosa</i> - <i>Gahnia clarkei</i> - <i>Juncus ustitatus</i> - <i>Lomandra longifolia</i> 'Tanika'

LANDSCAPE PLAN 02

SCALE: 1:300

Project No.

ORIGINAL DRAWING AT A1.

Checked By: CN

Drawing No.

LP05

Approved By: DM

2073

Rev

E

ARCHITECT:

BN

ENGINEER:

Triaxial

CLIENT:

Revelop

NOTE: DRAWING PURPOSES FOR APPROVAL ONLY. NOT FOR CONSTRUCTION.

No:

A

B

C

D

E

DATE:

6/10/21

28/10/21

15/6/2022

3/8/2022

9/8/2022

REVISION:

1.0 Draft DA Documentation

2.0 Draft DA Documentation

For submission

For submission

For Submission

BY:

AG

AG

AG

AG

AG

PROJECT:

Chisholm Centre Commercial Precinct

20 Heritage Drive, Chisholm NSW 2322

Status: FOR SUBMISSION

LEGEND

Site boundary

Lot boundary

Existing major contour (5m interval)

Existing minor contour (0.5m interval)

Outline of basement carpark below

Existing street tree
- to be retained & protected

Existing tree
- to be removed

Existing concrete footpath

Hot mix asphalt pavement

Concrete pavement

Paving type 1

Paving type 2

Cobble feature paving

Timber decking

Rubber soft fall tiles

Turf

Gravel

Sandstone log

Gabion retaining

Corten balustrade / retaining

1m Permeable balustrade

Formed concrete / concrete block wall

Sandstone boulders

Water feature

Bar seating

Floating timber seating

Timber bench seat with backrests

1.2m vertical batten balustrade

TREES

Cupaniopsis anacardioides
Tuckeroo

Elaeocarpus eumundi
Smoothed leaved Quandong

Eucalyptus sideroxylon rosea
Red Flowering Ironbark

Pyrus calleryana 'Capital'
Capital Flowering Pear

Tristaniopsis laurina 'Luscious'
Watergum

Ulmus parvifolia 'Burnley Select'
Chinese Elm

SHRUBS / GRASSES / ACCENT PLANTS

Anigozanthos flavidus
Kangaroo Paw

Correa alba
White Correa

Doryanthes Excelsa
Gymea Lily

Phormium tenax 'Bronze Baby'
Bronze Flax

Phormium tenax 'Purpureum'
New Zealand Flax

Photinia x fraseri 'Robusta'
Photinia

MASS PLANTING

MP1

Mass planting Type 3 - 4/m²
- *Aspidistra elatior*
- *Liriope muscari*
- *Philodendron xanadu*
- *Senecio serpens*
- *Viola hederacea*

MP2

Mass Planting Type 2 - 3/m²
- *Carpobrotus glaucescens*
- *Lomandra longifolia* 'Tanika'
- *Pennisetum alopecuroides*
- *Westringia fruticosa* 'Grey Box'
- *Westringia fruticosa* 'Mundi'

MP3

Mass Planting Type 3 - 3/m²
- *Dianella caerulea*
- *Philodendron* 'Xanadu'
- *Trachelospermum asiaticum* 'Flat Mat'

MP4

Mass Planting Type 4 - 3/m²
- *Lomandra longifolia* 'Tanika'
- *Pennisetum alopecuroides*

MP5

Mass Planting Type 5 - Basin 4/m²
- *Carex apresra*
- *Ficinia nodosa*
- *Gahnia clarkei*
- *Juncus ustitatus*
- *Lomandra longifolia* 'Tanika'

LANDSCAPE PLAN 03
Scale 1:300 @ A1

Studio 1, 88 Fern Street
PO Box 111
Islington NSW 2296
Phone (02) 4965 3500
Fax (02) 4965 3555
admin@moirla.com.au
www.moirla.com.au

ARCHITECT:
BN
ENGINEER:
Triaxial

CLIENT:
Revelop

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No:	DATE:	REVISION:
A	6/10/21	1.0 Draft DA Documentation
B	28/10/21	2.0 Draft DA Documentation
C	15/6/2022	For submission
D	3/8/2022	For submission
E	9/8/2022	For submission

PROJECT:
Chisholm Centre Commercial Precinct
20 Heritage Drive, Chisholm NSW 2322

Status: FOR SUBMISSION

LANDSCAPE PLAN 03

SCALE: 1:300

Project No. 2073

ORIGINAL DRAWING AT A1.

Drawing No. LP06

Checked By: CN

Approved By: DM

Rev E



LEGEND	
	Site boundary
	Lot boundary
	Existing major contour (5m interval)
	Existing minor contour (0.5m interval)
	Outline of basement carpark below
	Existing street tree - to be retained & protected
	Existing tree - to be removed
	Existing concrete footpath
	Hot mix asphalt pavement
	Concrete pavement
	Paving type 1
	Paving type 2
	Paving type 3
	Cobble feature paving
	Timber decking
	Rubber soft fall tiles
	Turf
	Gravel
	Sandstone log
	Gabion retaining
	Corten balustrade / retaining
	1m Permeable balustrade
	Formed concrete / concrete block wall
	Sandstone boulders
	Water feature
	Bar seating
	Floating timber seating
	Timber bench seat with backrests
	1.2m vertical batten balustrade
TREES	
	<i>Cupaniopsis anacardioides</i> Tuckeroo
	<i>Elaeocarpus eumundi</i> Smoothed leaved Quandong
	<i>Eucalyptus sideroxylon rosea</i> Red Flowering Ironbark
	<i>Pyrus calleryana 'Capital'</i> Capital Flowering Pear
	<i>Tristania laurina 'Luscious'</i> Watergum
	<i>Ulmus parvifolia 'Burnley Select'</i> Chinese Elm
SHRUBS / GRASSES / ACCENT PLANTS	
	<i>Anigozanthos flavidus</i> Kangaroo Paw
	<i>Correa alba</i> White Correa
	<i>Doryanthes Excelsa</i> Gymea Lily
	<i>Phormium tenax 'Bronze Baby'</i> Bronze Flax
	<i>Phormium tenax 'Purpureum'</i> New Zealand Flax
	<i>Photinia x fraseri 'Robusta'</i> Photinia
MASS PLANTING	
	Mass planting Type 3 - 4/m ² - <i>Aspidistra elatior</i> - <i>Liriope muscari</i> - <i>Philodendron xanadu</i> - <i>Senecio serpens</i> - <i>Viola hederacea</i>
	Mass Planting Type 2 - 3/m ² - <i>Carpobrotus glaucescens</i> - <i>Lomandra longifolia 'Tanika'</i> - <i>Pennisetum alopecuroides</i> - <i>Westringia fruticosa 'Grey Box'</i> - <i>Westringia fruticosa 'Mundi'</i>
	Mass Planting Type 3 - 3/m ² - <i>Dianella caerulea</i> - <i>Philodendron 'Xanadu'</i> - <i>Trachelospermum asiaticum 'Flat Mat'</i>
	Mass Planting Type 4 - 3/m ² - <i>Lomandra longifolia 'Tanika'</i> - <i>Pennisetum alopecuroides</i>
	Mass Planting Type 5 - Basin 4/m ² - <i>Carex apresia</i> - <i>Ficinia nodosa</i> - <i>Gahnia clarkei</i> - <i>Juncus ustitatus</i> - <i>Lomandra longifolia 'Tanika'</i>

LANDSCAPE PLAN 04
Scale 1:300 @ A1



TREES



Cupaniopsis anacardioides
Tuckeroo



Elaeocarpus eumundi
Smooth leaved Quandong



Eucalyptus sideroxylon 'Rosea'
Red Flowering Ironbark



Pyrus calleryana 'Capital'
Ornamental Pear



Tristaniopsis laurina 'Luscious'
Water Gum



Ulmus parvifolia
Chinese Elm

SHRUBS



Aspidistra elatior
Cast Iron Plant



Correa alba
White Correa



Philodendron 'Xanadu'
Xanadu



Photinia x fraseri 'Robusta'
Photinia Robusta



Westringia fruticosa 'Grey Box'
Grey Box Coastal Rosemary



Lomandra longifolia 'Tanika'
Spiny-head Mat-rush



Pennisetum alopecuroides
Chines Fountain Grass

GRASSES

ACCENT PLANTS



Anigozanthos flavidus 'Big Red'
Red Kangaroo Paw



Blechnum gibbum 'Silver Lady'
Silver Lady Fern



Doryanthes excelsa
Gymea Lily



Phormium tenax 'Bronze Baby'
Bronze New Zealand Flax



Phormium tenax 'Purpureum'
New Zealand Flax

GROUND COVERS



Carpobrotus glaucescens
Pigface



Dianella caerulea
Flax Lily



Liriope muscari
Lily Turf



Senecio serpens
Blue Chalksticks



Westringia fruticosa 'Mundi'
Mundi Coastal Rosemary



Viola hederacea
Native Violet

BASIN PLANTING



Carex appressa
Mat Rush



Ficinia nodosa
Knobby Club Rush



Gahnia clarkei
Saw Sedge



Juncus usitatus
Common Rush



Lomandra longifolia 'Tanika'
Spiny-head Mat Rush

PLANTING SCHEDULE

Code	Botanical Name	Common Name	Mature Height	Mature Spread	Pot Size
Trees					
CUP ana	Cupaniopsis anacardioides	Tuckeroo	10 - 15m	4 - 6m	25 litre
ELA eum	Elaeocarpus eumundi	Smoothed leaved Quandong	6 - 10m	3 - 5m	25 litre
EUC sid	Eucalyptus sideroxylon 'Rosea'	Red Flowering Iron Bark	15 - 20m	6 - 10m	25 litre
PYR cap	Pyrus calleryana 'Capital'	Capital Flowering Pear	8 - 12m	2 - 3m	25 litre
TRI lus	Tristaniopsis laurina 'Luscious'	Water Gum	5 - 10m	4 - 6m	25 litre
ULM bur	Ulmus parvifolia 'Burnley Select'	Chinese Elm	8 - 10m	5 - 7m	75 litre
Shrubs					
ASP ela	Aspidistra elatior	Cast Iron Plant	0.9 - 1.5m	0.9 - 1.2m	200mm
COR alb	Correa alba	White Correa	0.9 - 1.5m	0.9 - 1.2m	200mm
PHI Xan	Philodendron 'Xanadu'	Xanadu	0.5 - 0.8m	0.6 - 0.8m	200mm
PHO fra	Photinia x fraseri 'Robusta'	Photinia	3m	2m	200mm
WES gre	Westringia 'Grey Box'	Grey Box Westringia	0.3 - 0.4m	0.3 - 0.4m	100mm
WES fru	Westringia fruticosa	Coastal Rosemary	0.9 - 1.5m	0.9 - 1.2m	140mm
Grasses					
PEN alo	Pennisetum alopecuroides 'Nafray'	Fountain Grass	0.9 - 1.5m	0.6 - 0.9m	Tubestock
LOM tan	Lomandra longifolia 'Tanika'	Spiny-headed mat rush	0.45 - 0.6m	0.6 - 0.9m	Tubestock
DIA cae	Dianella caerulea	Blue Flax Lily	0.45 - 0.6m	0.3 - 0.6m	100mm
Accent Plants					
PHO bro	Phormium tenax 'Bronze Baby'	Bronze Flax	0.5 - 0.7m	0.5 - 0.7m	200mm
PHO ten p	Phormium tenax 'Purpureum'	New Zealand Flax	1.8m	1.8m	200mm
DOR exc	Doryanthes excelsa	Gymea Lily	1.5 - 3m	1.2 - 2.0m	200mm
ANI fla	Anigozanthos flavidus	Evergreen Kangaroo Paw	0.7 - 0.9m	1.0 - 1.5m	200mm
BLE gib	Blechnum gibbum 'Silver Lady'	Silver Lady Fern	1 - 1.2m	1 - 1.2m	200mm
Ground Covers					
CAR gla	Carpobrotus glaucescens	Pigface	0.0 - 0.3m	1.2 - 2.0m	Tubestock
DIA jes	Dianella caerulea 'Little Jess'	Blue Flax-lily	0.45 - 0.6m	0.3 - 0.6m	Tubestock
LIR mus	Liriope muscari	Evergreen Lilyturf	0.45 - 0.6m	0.3 - 0.6m	Tubestock
SEN ser	Senecio serpens	Blue Chalk Sticks	0.1 - 0.2m	0.6 - 1.0m	Tubestock
VIO hed	Viola hederacea	Native Violet	0.1 - 0.3m	1.2 - 2.0m	Tubestock
WES mun	Westringia fruticosa 'Mundi'	Mundi Coastal Rosemary	0.4 - 0.5m	0.5 1.0m	Tubestock
Basin Planting					
CAR app	Carex appressa	Tall Sedge	0.9 - 1.5m	0.3 - 0.6m	100mm
FIC nod	Ficinia nodosa	Knobby Club-rush	0.75 - 0.9m	0.0 - 0.3m	100mm
GAH cla	Gahnia clarkei	Saw Sedge	1.5 - 3m	0.9 - 1.2m	100mm
JUN usi	Juncus usitatus	Common Rush	0.9 - 1.5m	0.6 - 0.9m	100mm

Note, the following conditions should be ensured at installation and maintenance of planting:

- tree canopy cover should be less than 15% at maturity;
- trees at maturity should not touch or overhang the building;
- lower limbs should be removed up to a height of 2m above the ground;
- tree canopies should be separated by 2 to 5m;
- large discontinuities or gaps in vegetation should be provided to slow down or break the progress of fire towards buildings;
- shrubs should not be located under trees;
- shrubs should not form more than 10% ground cover; and
- clumps of shrubs should be separated from exposed windows and doors by a distance of at least twice the height of the vegetation; and
- grass should be kept mown (as a guide grass should be kept to no more than 100mm in height).



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ARCHITECT:
BN
ENGINEER:
Triaxial

CLIENT:
Revelop

NOTE: DRAWING PURPOSES FOR APPROVAL ONLY. NOT FOR CONSTRUCTION.

No: A
DATE: 6/10/21
AG
B 28/10/21
AG
C 15/6/2022
AG
D 3/8/2022
AG
E 9/8/2022
AG

REVISION:
1.0 Draft DA Documentation
2.0 Draft DA Documentation
For submission
For Submission

BY:
AG
AG
AG
AG
AG

PROJECT:
Chisholm Centre Commercial Precinct
20 Heritage Drive, Chisholm NSW 2322

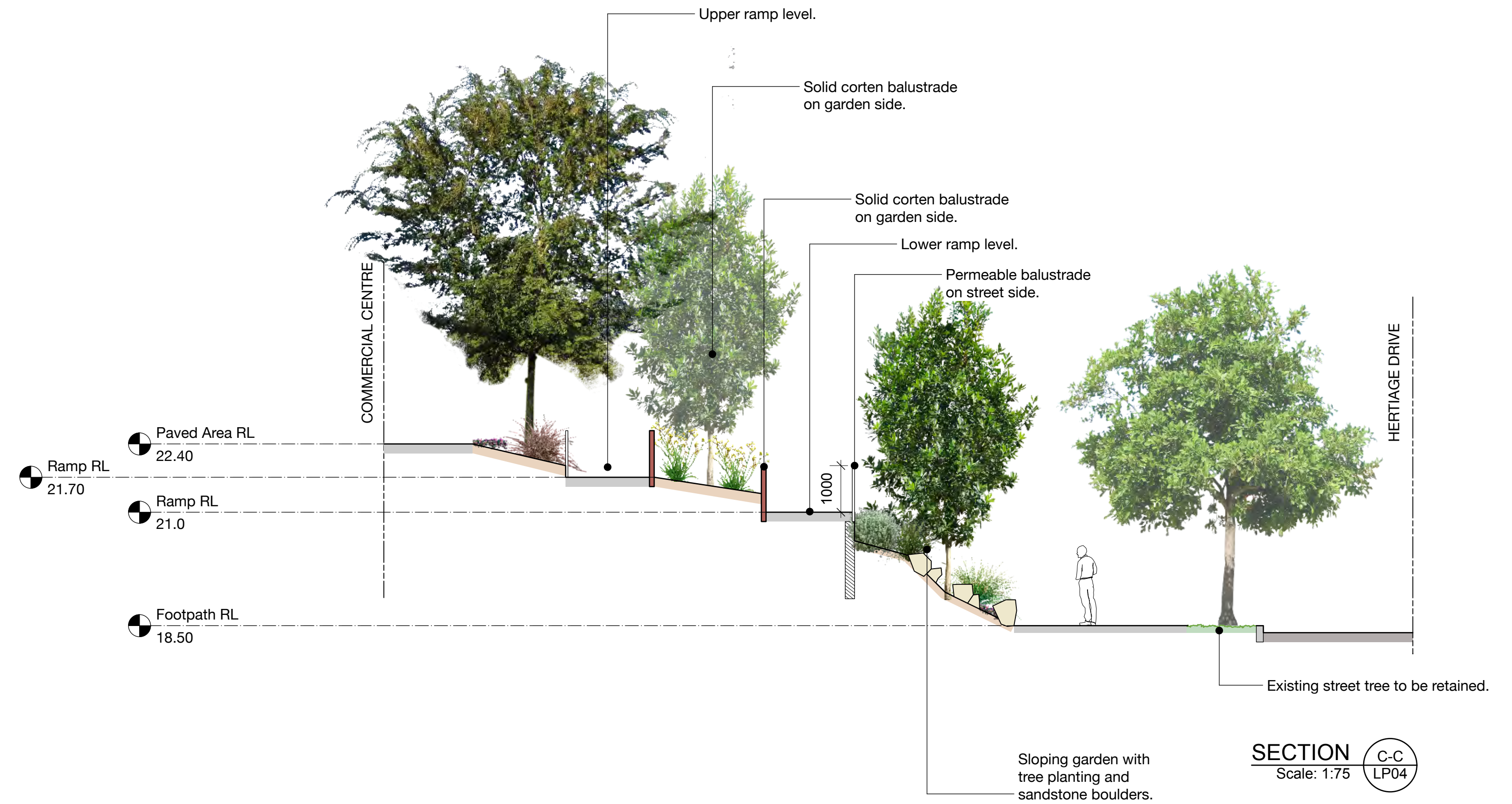
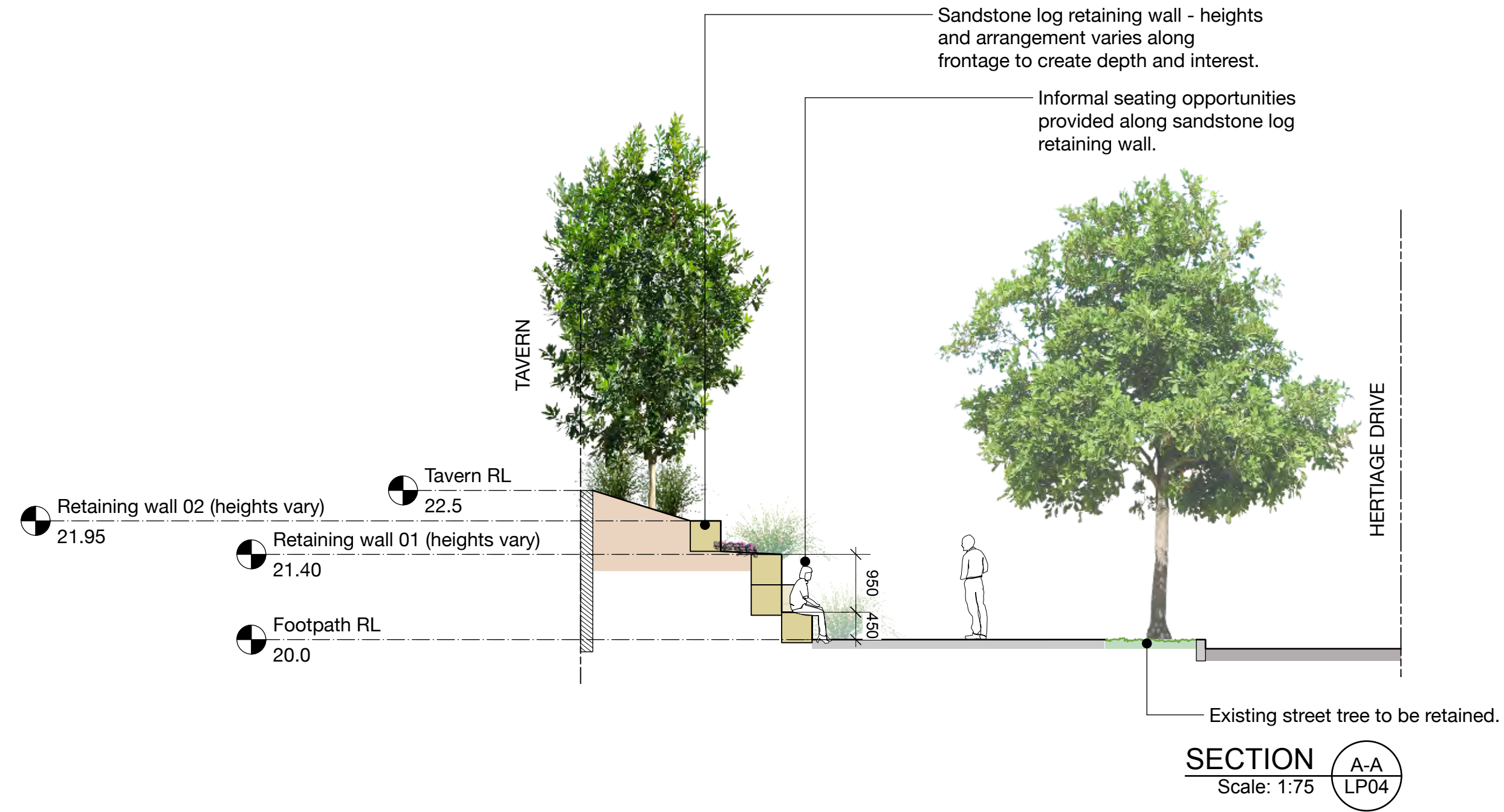
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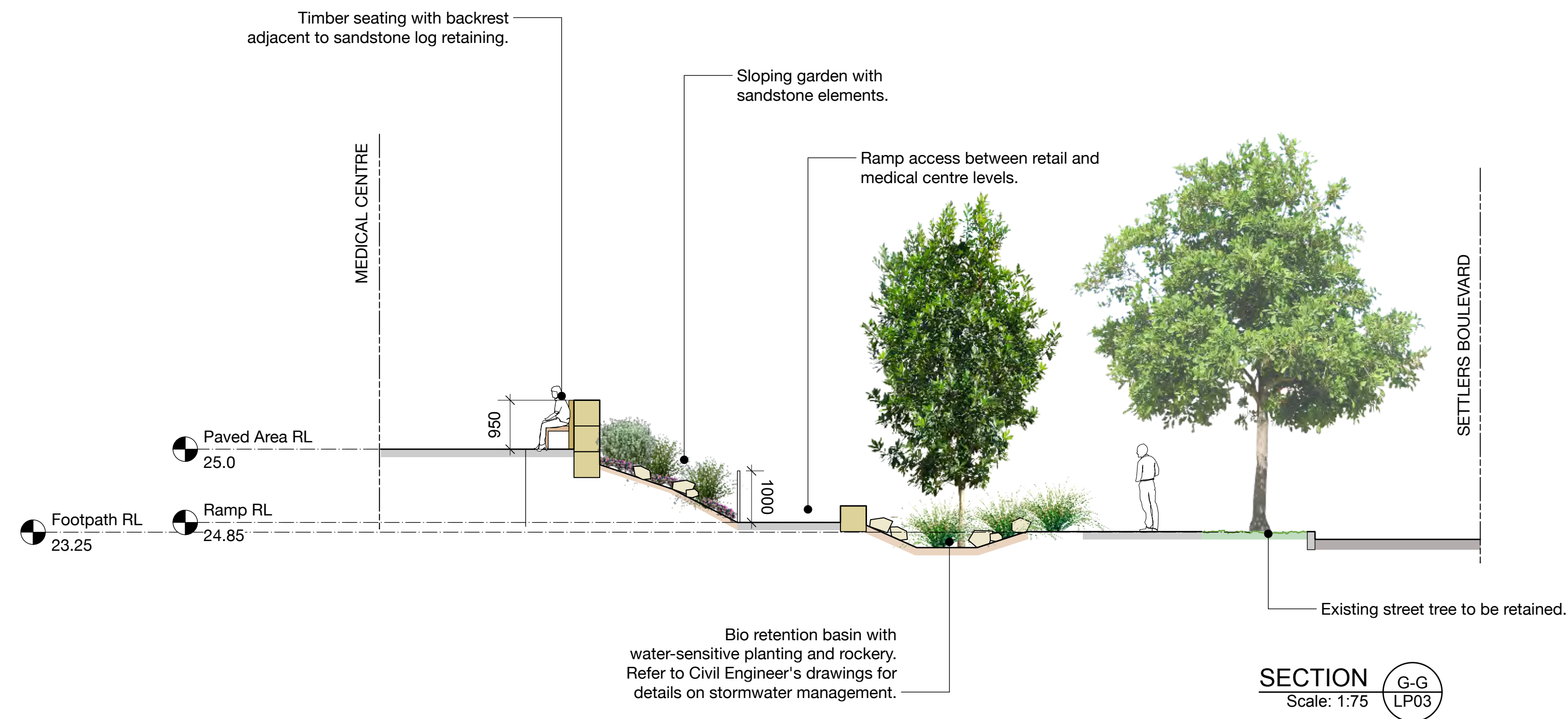
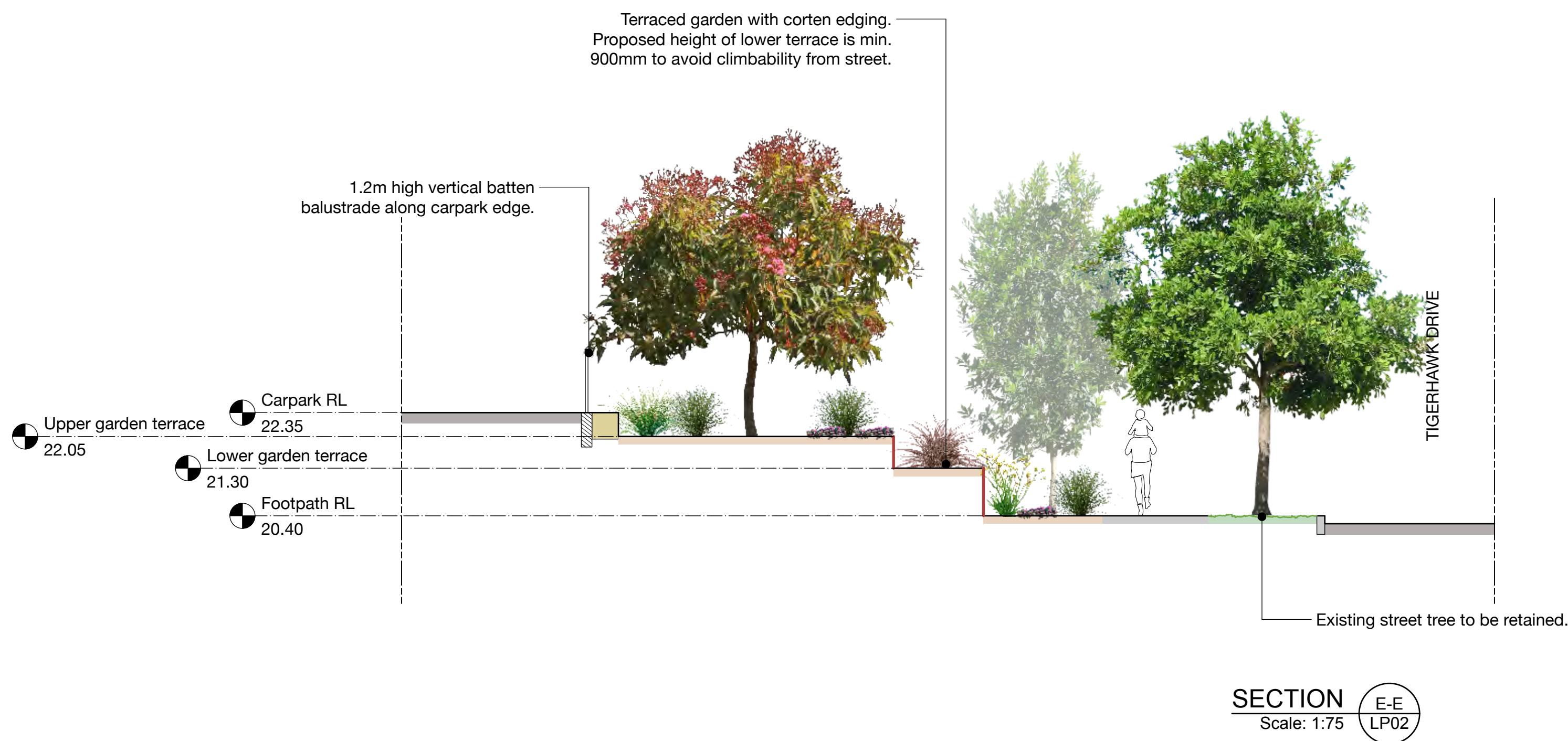
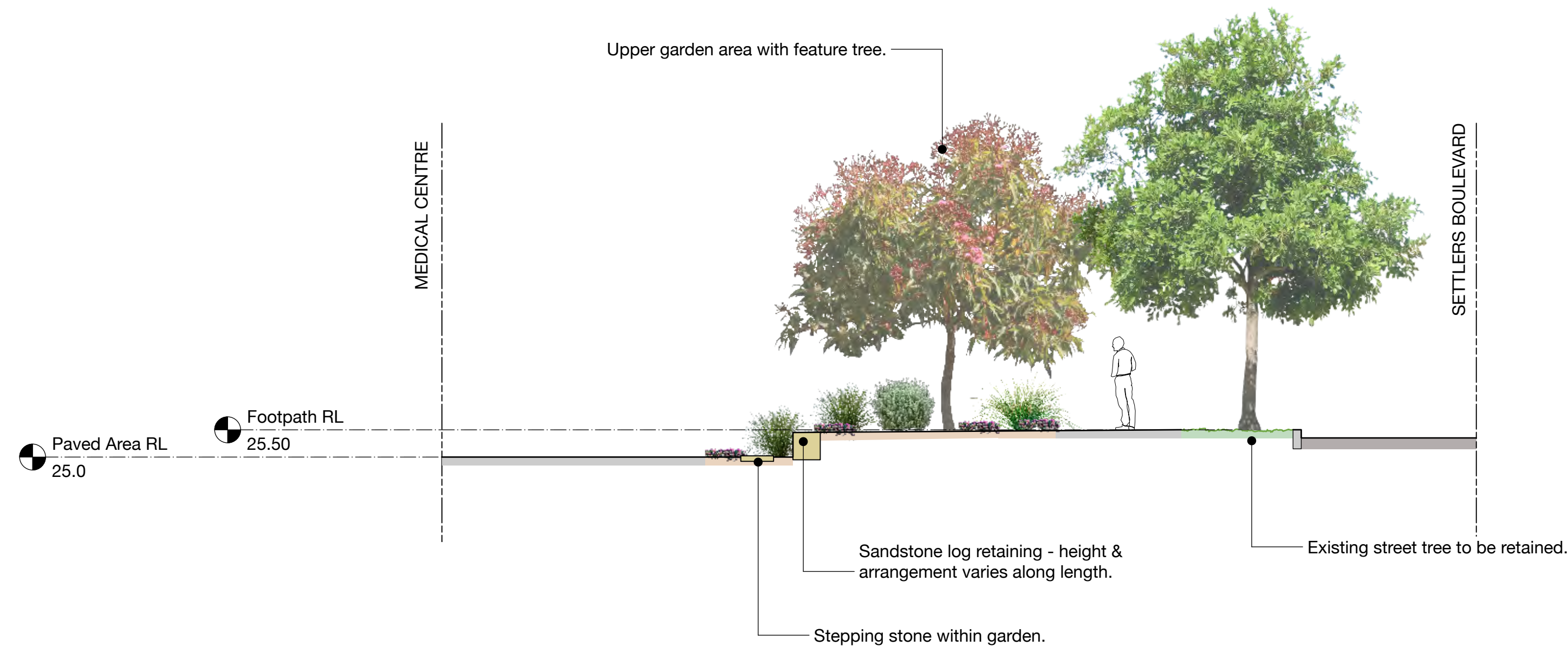
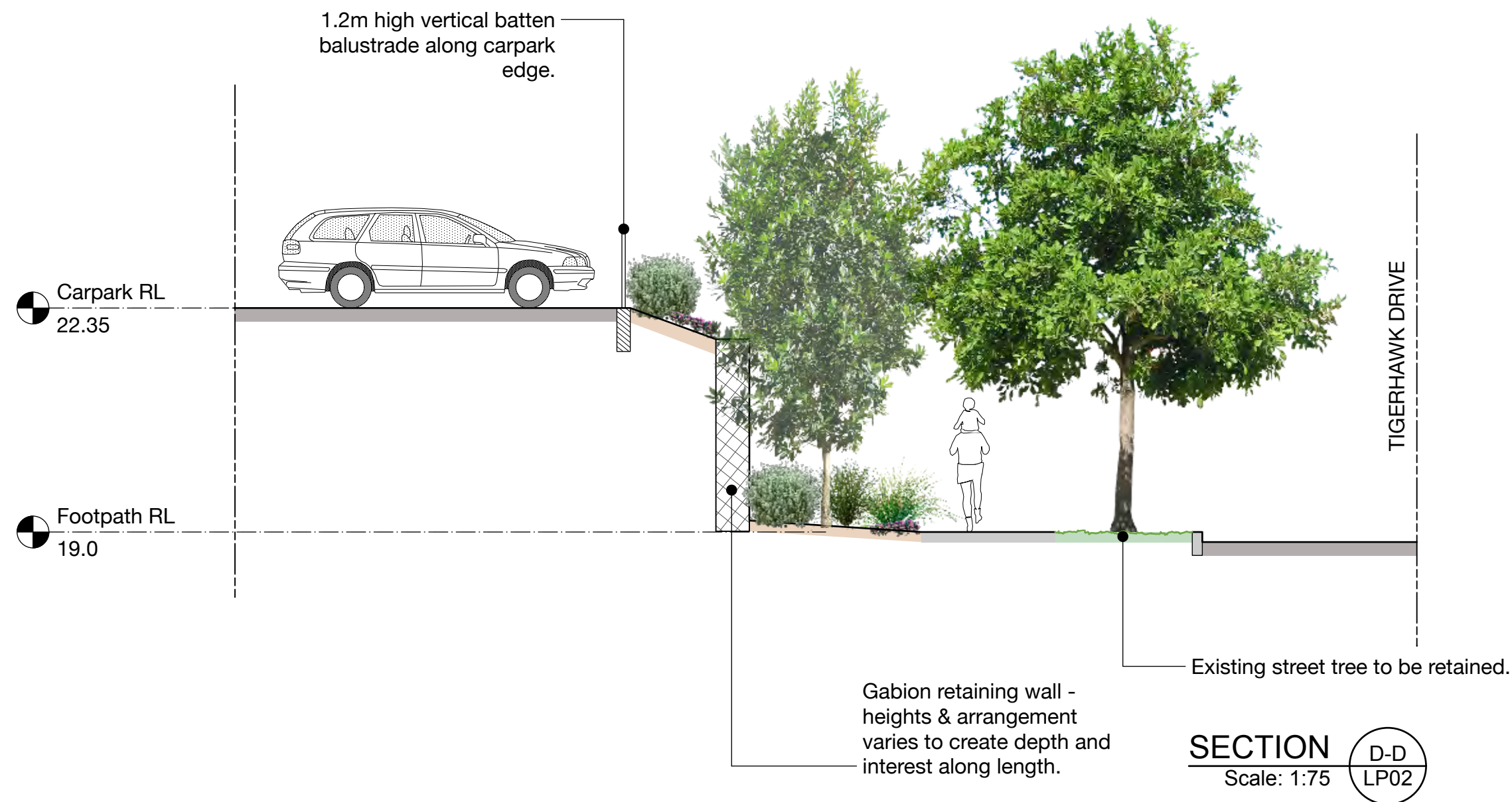
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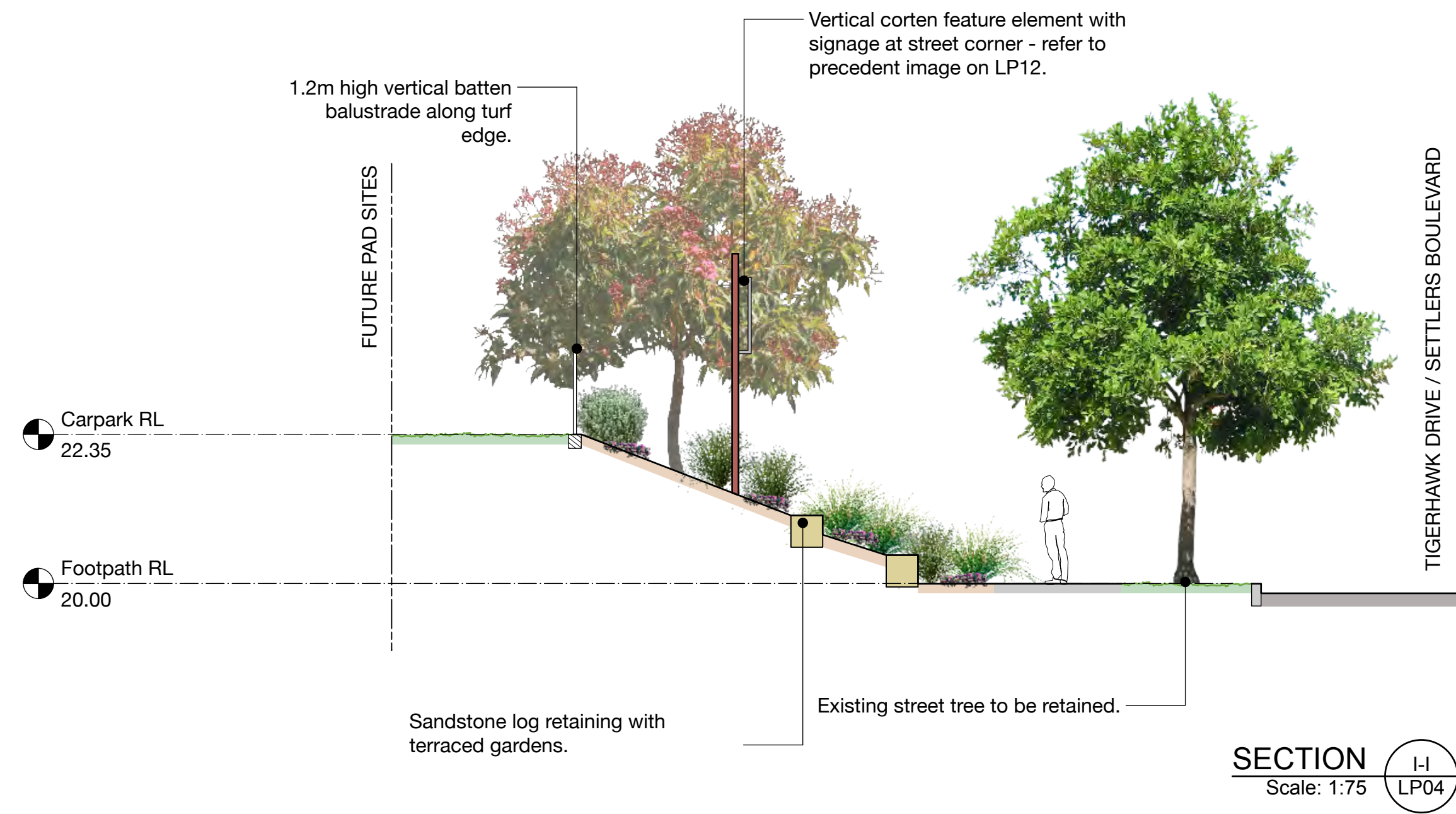
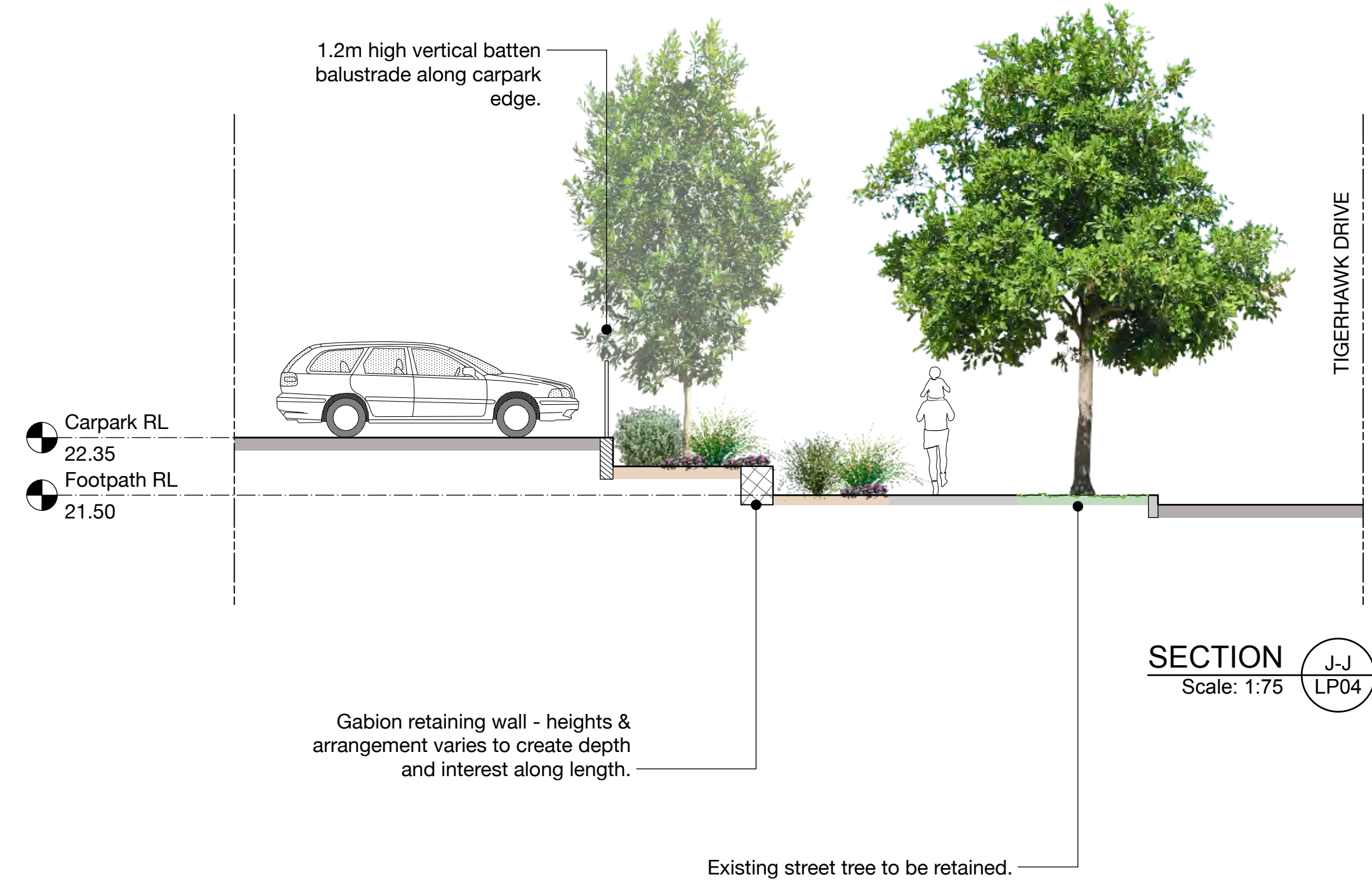
PLANTING SCHEDULE

SCALE: NTS
Project No.
ORIGINAL DRAWING AT A1.
Drawing No.
Checked By: AG
Approved By: DM
LP08

2073
Rev
E







EDGE TREATMENTS



Sandstone boulders



Sandstone log retaining



Gabion retaining



Corten balustrade



Corten garden retaining



Vertical blade fencing

SURFACE TREATMENTS



Concrete pavement



Hot mix asphalt pavement



Feathered paving treatment



Cobble feature paving and in-ground water feature



Cobble feature paving



Rocky areas within bioretention basin



Concrete steppers within garden



Rubber tile beneath play structure

SIGNAGE



Corten signage element within garden



Corten facade treatment at street corners

FURNITURE



Corten retaining with mounded planting and floating timber seat



Stainless steel and timber bench seat with backrest and armrests



Kiosk bar seating with raised planters



Integrated stair and bleacher seating



Moveable furniture

PLAY STRUCTURE



Balancing / climbing flexible play structure



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BY:	PROJECT:
AG	Chisholm Centre Commercial Precinct
AG	20 Heritage Drive, Chisholm NSW 2322
AG	
AG	

Status: FOR SUBMISSION

THEMING

SCALE: NTS
ORIGINAL DRAWING AT A1.
Drawn By: AG
Checked By: CN

Project No.
Drawing No.
LP12

2073
Rev
E

North

CHISHOLM PLAZA
20 HERITAGE DRIVE
CHISHOLM, NSW 2322
DEVELOPMENT APPLICATION CIVIL ENGINEERING DRAWINGS

DRAWINGS LIST

- DA1.00 COVER SHEET
DA1.01 EXISTING SITE PLAN
- DA2.00 CONCEPT SEDIMENT AND EROSION CONTROL PLAN
DA2.01 CONCEPT SEDIMENT AND EROSION CONTROL DETAILS SHEET 1 OF 2
DA2.02 CONCEPT SEDIMENT AND EROSION CONTROL DETAILS SHEET 2 OF 2
- DA3.00 CONCEPT STORMWATER MANAGEMENT PLAN
DA3.01 CONCEPT STORMWATER MANAGEMENT DETAILS SHEET 1 OF 2
DA3.02 CONCEPT STORMWATER MANAGEMENT DETAILS SHEET 2 OF 2
DA3.03 CONCEPT ROAD AND DRIVEWAY ACCESS LONGITUDINAL SECTIONS
DA3.04 CONCEPT STORMWATER CATCHMENT PLAN
- DA4.00 CONCEPT BULK EARTHWORKS PLAN

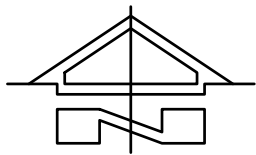
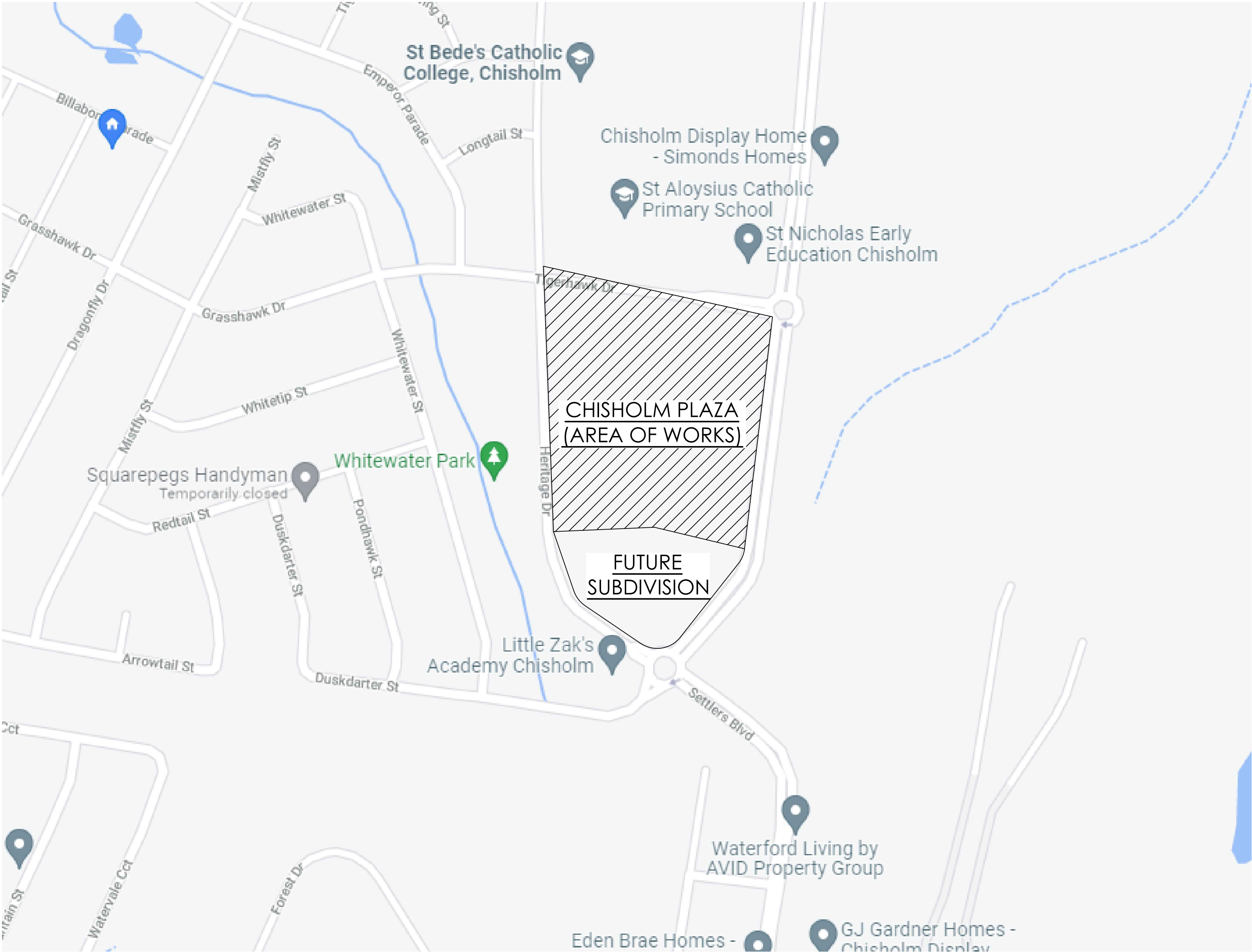
NOTE:
1. THIS IS AN ENGINEERING SURVEY PLAN AND SHALL NOT BE TAKEN AS A CADASTRAL OR IDENTIFICATION SURVEY. BOUNDARY DATA IF SHOWN, SHOULD BE TAKEN AS A GUIDE ONLY.
2. REFER TO THE CERTIFICATE OF TITLE FOR EASEMENT DETAILS (IF ANY).
3. NO UNDERGROUND SERVICES HAVE BEEN LOCATED.

SURVEY:
1. SURVEY PROVIDED BY: LAND DEVELOPMENT SOLUTIONS REF: 6636-DET DATED: 21/10/21
2. ORIGIN OF LEVELS PM 17605.

PM / SSM	EASTING	NORTHING	RL(AHD)
SSM171234	N/A	N/A	N/A

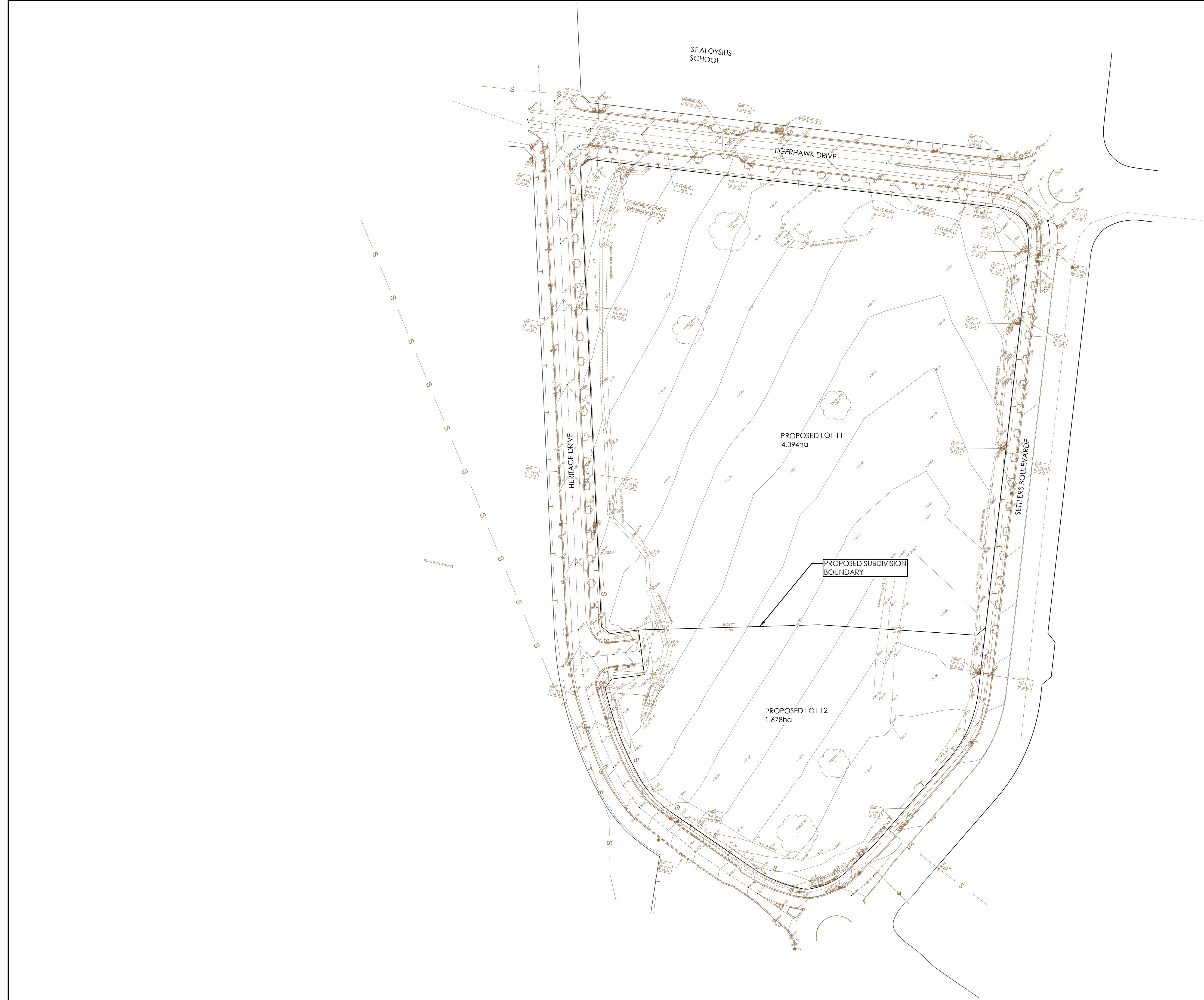
ARCHITECTURAL PLANS BY:
1. ARCHITECTURAL PLANS BY: BN ARCHITECTURE REF: S2117 REVISION/VERSION: F DATED: 8/11/21

GEOTECH ENGINEER:
GEOTECH REPORT TO BE CONFIRMED



LOCATION PLAN
N.T.S.

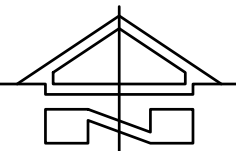
NOTE:
THIS IS A PLANNING DRAWING ONLY, FOR THE PURPOSE OF CONCEPTUAL DESIGN AND/OR PLANNING. FURTHER DETAILED ENGINEERING DESIGN INCLUDING SPECIFICATIONS, SIZING AND STORMWATER INVERTS TO BE PROVIDED PRIOR TO BUILDING RULES ASSESSMENT AND CONSTRUCTION.



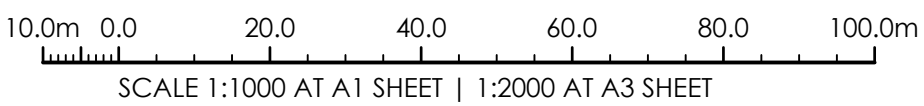
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2. REFER TO THE CERTIFICATE OF TITLE FOR EASEMENT DETAILS (IF ANY).
3. NO UNDERGROUND SERVICES HAVE BEEN LOCATED.
4. REFER TO COVER SHEET FOR SURVEY INFORMATION.

LEGEND - EXISTING	
SYMBOL	DESCRIPTION
	SPOT LEVEL
	CONTOURS (0.5m)
	CONTOURS (0.1m)
	FENCE
	BOUNDARY
	DRAINAGE LINE
	SEWER LINE
	WATER LINE
	ELECTRICITY UNDERGROUND
	ELECTRICITY OVERHEAD
	TELSTRA LINE
	GAS LINE
	ROAD CENTRELINE
	TREE

**EXISTING SITE PLAN**
SCALE 1:1000 AT A1

NOTE:
ALL UTILITIES ARE TO BE ACCURATELY LOCATED BY CONTRACTOR BEFORE CONSTRUCTION.



ISSUE FOR INFORMATION
AMENDMENTS

10.12.21	A	JG
DATE	ISSUE	BY

NOT FOR CONSTRUCTION

NORTH POINT U.N.O.

ARCHITECT
BN ARCHITECTURE
82 ALEXANDER STREET
CROWS NEST, NSW 2065

CLIENT
REVELOP
SUITE 506, LEVEL 5/55
PHILLIP STREET
PARRAMATTA NSW 2150

PROJECT
CHISHOLM PLAZA
HERITAGE DRIVE
CHISHOLM NSW 2322

DESIGNED	DRAWN	DATE	SIZE	CAD REF
--	--	DEC 21	SIZE	TX15901.00 C01



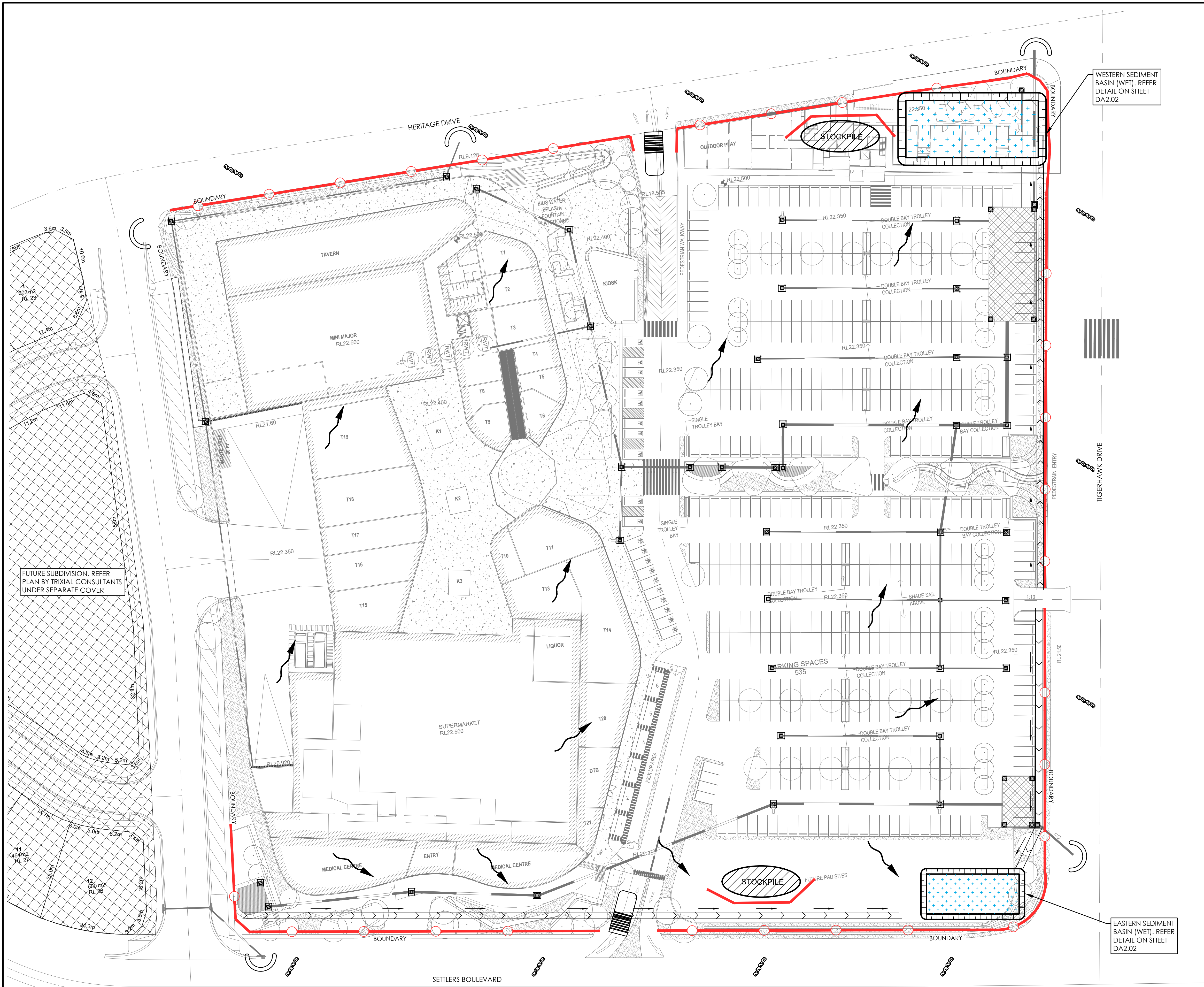
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CONSULTING
COMPLEX PROBLEMS
RESOLVED SIMPLY

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PO BOX 3197, TUGGERAH NSW 2259

TO BE PRINTED IN COLOUR

DRAWING TITLE
EXISTING SITE PLAN

PROJECT No.	DRAWING No.	ISSUE
TX15901.00	DA1.01	A



SEDIMENT & EROSION CONTROL DURING CONSTRUCTION

THIS PLAN IS TO BE USED AS A GUIDE ONLY. CONTRACTOR TO CONFIRM CONSTRUCTION SEQUENCE AND IMPLEMENT APPROPRIATE SEDIMENT AND EROSION CONTROL DETAILS IN ACCORDANCE WITH COUNCIL REQUIREMENTS.

LEGEND - SEDIMENT & EROSION

SYMBOL	DESCRIPTION
	SEDIMENT FENCE
	EXISTING FALL DIRECTION
	GUTTER GROSS POLLUTANT TRAP
	GEOTEXTILE INLET FILTER
	TEMPORARY STOCKPILE
	STABILISED SITE ACCESS
	SEDIMENT BASIN
	EARTH BANK (LOW FLOW)
	MESH AND GRAVEL INLET FILTER

EAST SEDIMENT BASIN CALCULATIONS

PARAMETER	ADOPTED VALUE
Cv	0.3
SETTLING ZONE VOLUME (m³)	59
SEDIMENT STORAGE VOLUME (m³)	30
TOTAL BASIN VOLUME (m³)	89

WEST SEDIMENT BASIN CALCULATIONS

PARAMETER	ADOPTED VALUE
Cv	0.3
SETTLING ZONE VOLUME (m³)	146
SEDIMENT STORAGE VOLUME (m³)	206
TOTAL BASIN VOLUME (m³)	352

CONCEPT SEDIMENT AND EROSION CONTROL PLAN

SCALE 1:500 AT A1

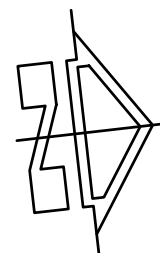
5.0m 0.0 10.0 20.0 30.0 40.0 50.0m
SCALE 1:500 AT A1 SHEET | 1:1000 AT A3 SHEET

ISSUE FOR INFORMATION
AMENDMENTS

10.12.21
DATE
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JG
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ARCHITECT
BN ARCHITECTURE
82 ALEXANDER STREET
CROWS NEST, NSW 2065

CLIENT
REVELOP
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PHILLIP STREET
PARRAMATTA NSW 2150

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CHISHOLM NSW 2322

DESIGNED
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DRAWN
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SIZE
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CAD REF
TX15901.00 C01



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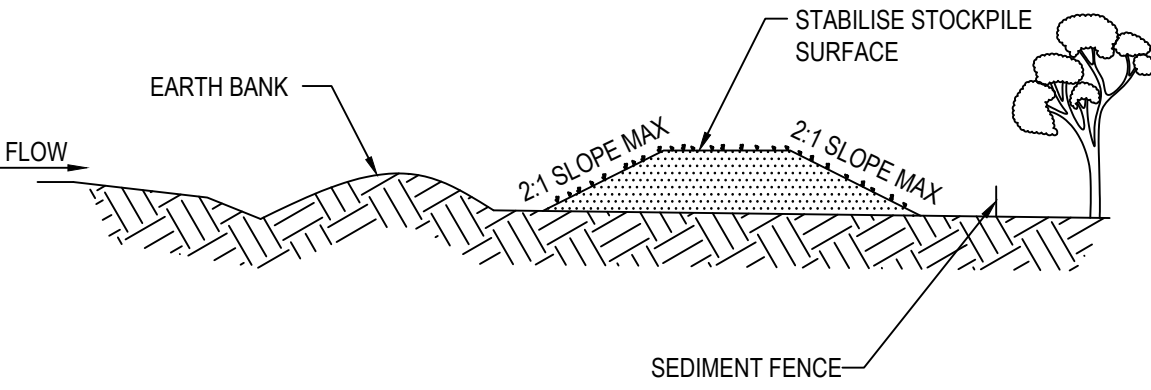
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DRAWING TITLE
**CONCEPT SEDIMENT AND
EROSION CONTROL PLAN**

PROJECT No.
TX15901.00
DRAWING No.
DA2.00 A
ISSUE

SOURCE: MANAGING URBAN STORMWATER
SOILS AND CONSTRUCTION
FOURTH EDITION, MARCH 2004
PRODUCED BY THE DEPARTMENT
OF HOUSING



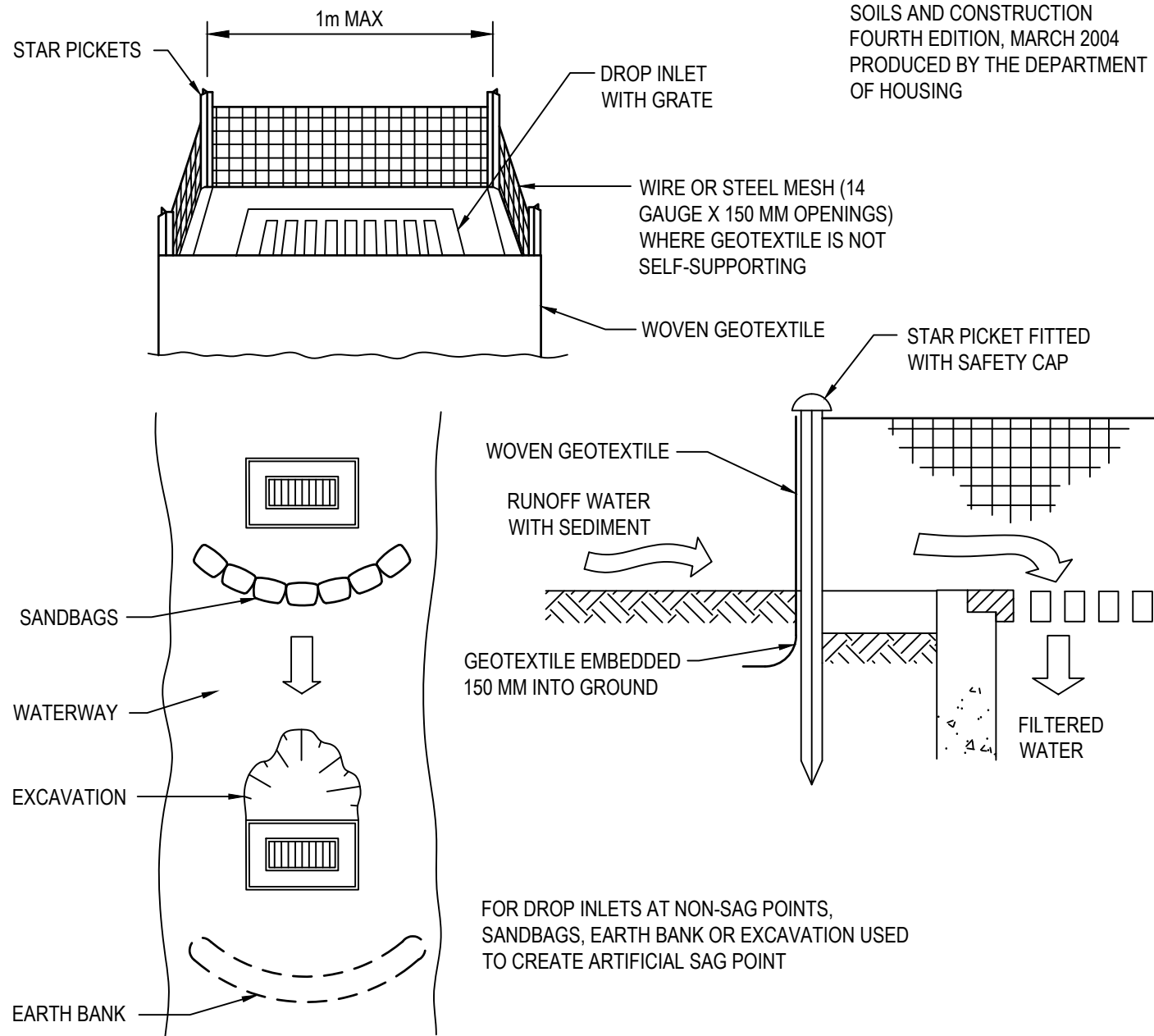
CONSTRUCTION NOTES:

1. PLACE STOCKPILES MORE THAN 2 (PREFERABLY 5) METRES 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 2 METERS 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 FENCE (STANDARD DRAWING 6-8) 1 TO 2 METRES DOWNSLOPE.

STOCKPILES

SD 4-1

SOURCE: MANAGING URBAN STORMWATER
SOILS AND CONSTRUCTION
FOURTH EDITION, MARCH 2004
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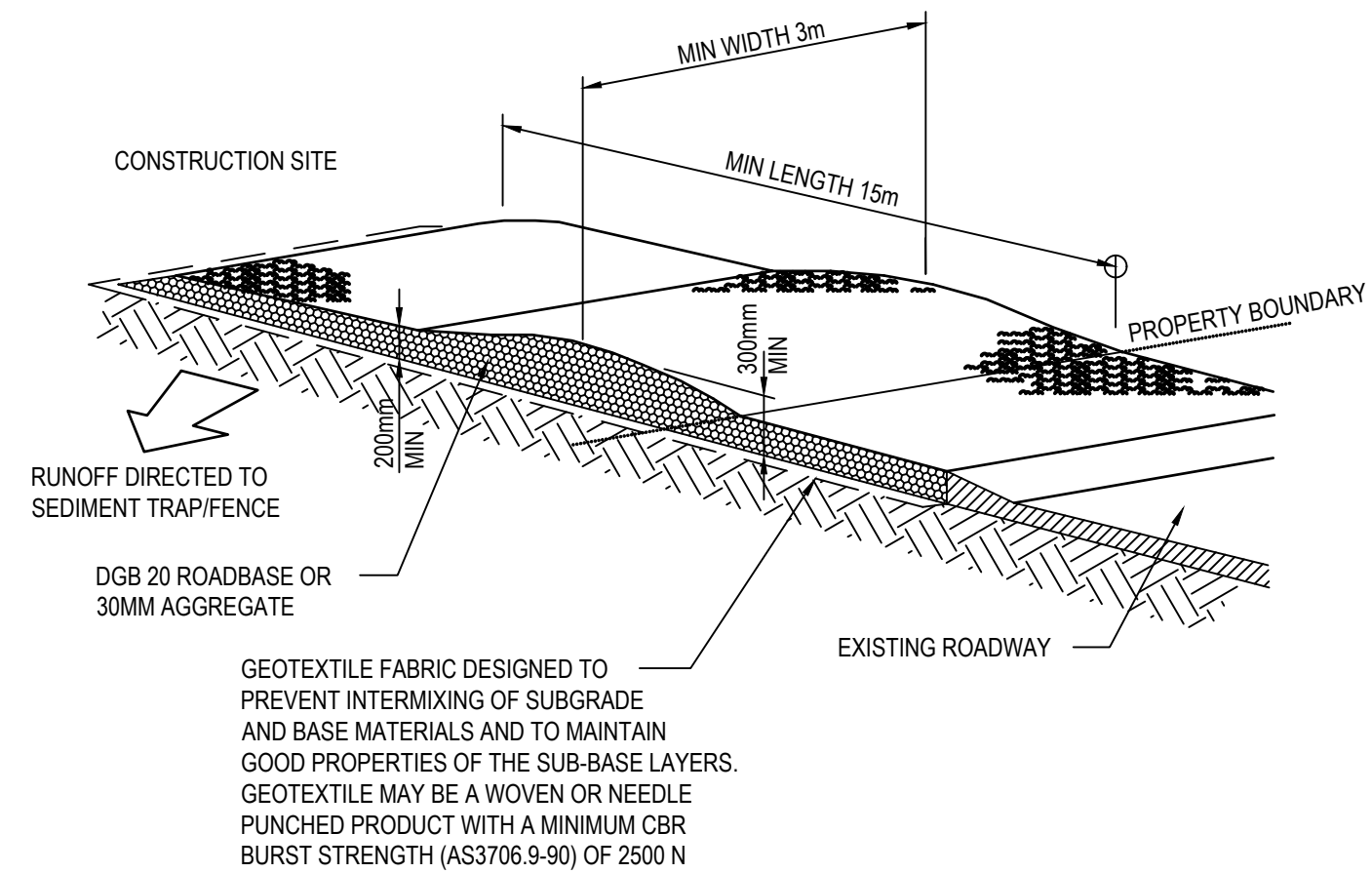
CONSTRUCTION NOTES:

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 INLET WITH GEOTEXTILE UNLESS THE DESIGN IS ADEQUATE TO ALLOW FOR ALL WATERS TO BYPASS IT.

GEOTEXTILE INLET FILTER

SD 6-12

SOURCE: MANAGING URBAN STORMWATER
SOILS AND CONSTRUCTION
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PRODUCED BY THE DEPARTMENT
OF HOUSING

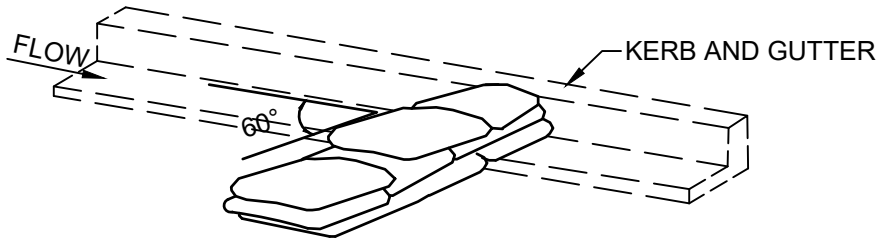


CONSTRUCTION NOTES:

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 AGREGATE.}
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

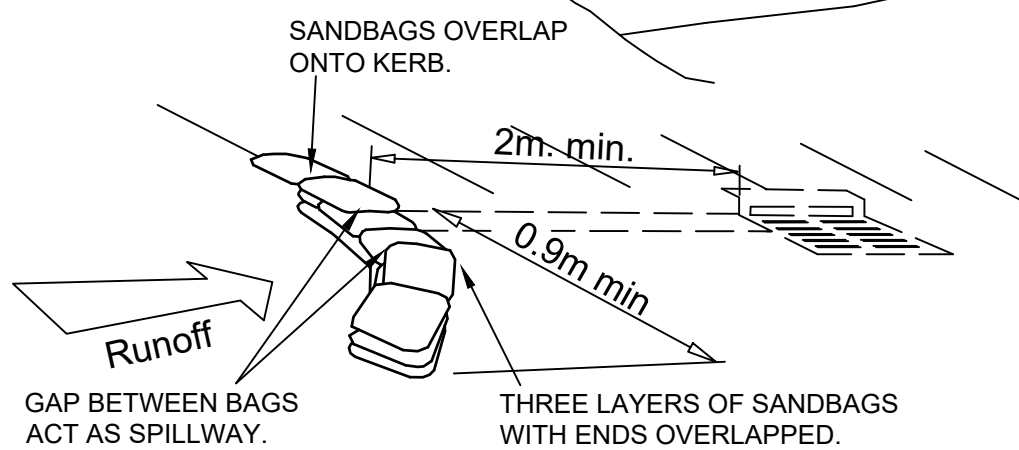
STABILISED SITE ACCESS

SD 6-14



GRAVEL FILLED SAUSAGE
TEMPORARY GUTTER GROSS
POLLUTANT/SEDIMENT TRAP

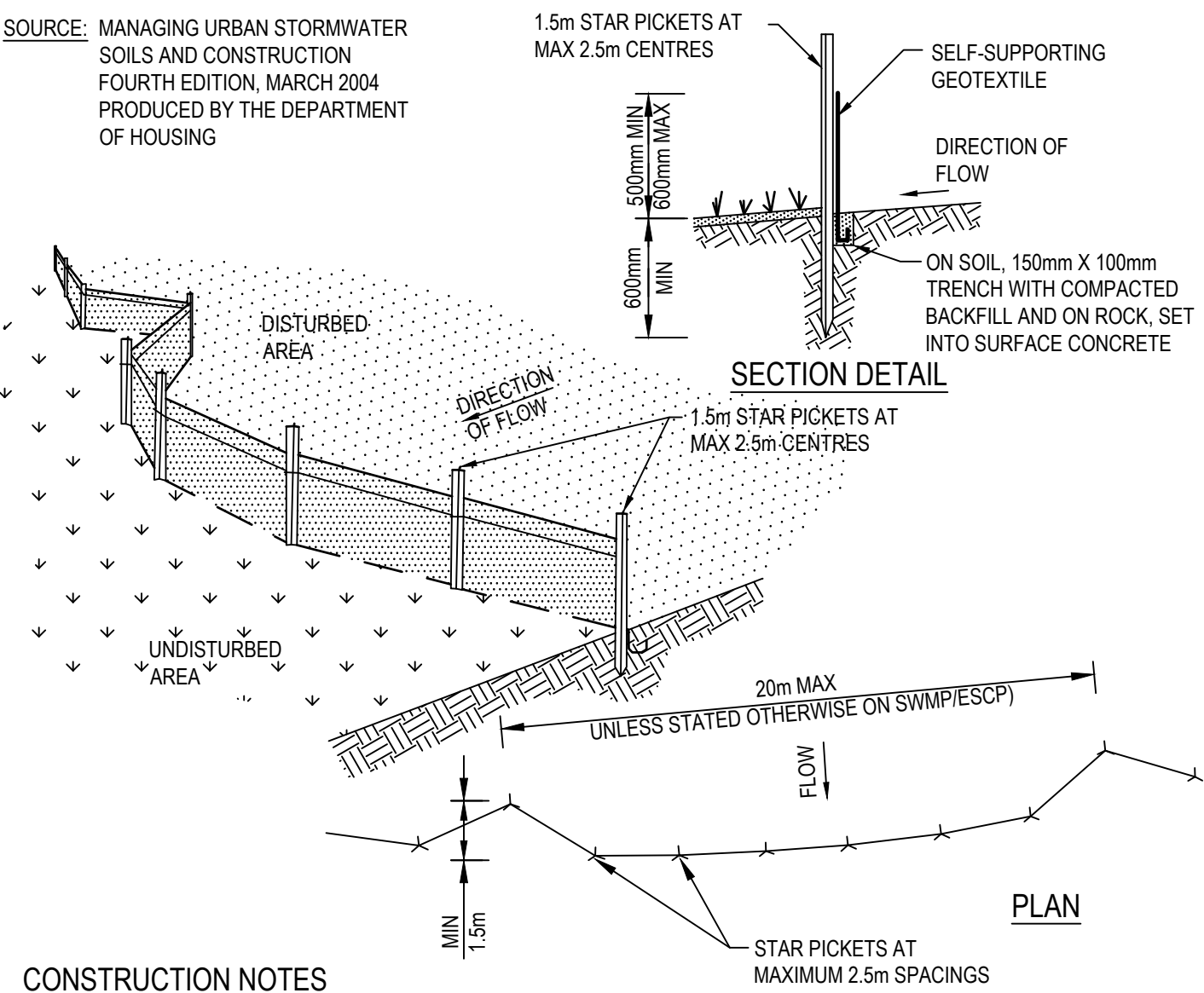
COARSE GRAVEL ROLLED IN NETTING MATERIAL TOTALING
200mm HIGH & PLACED HARD AGAINST FACE OF KERB.
NTS



GUTTER GROSS POLLUTANT TRAP
N.T.S.

NOTE:
SEDIMENT BARRIERS TO BE USED ONLY WHERE ROAD WIDTHS
PERMITS AND WHERE SAFETY TO PASSING TRAFFIC IS NOT
AFFECTED

SOURCE: MANAGING URBAN STORMWATER
SOILS AND CONSTRUCTION
FOURTH EDITION, MARCH 2004
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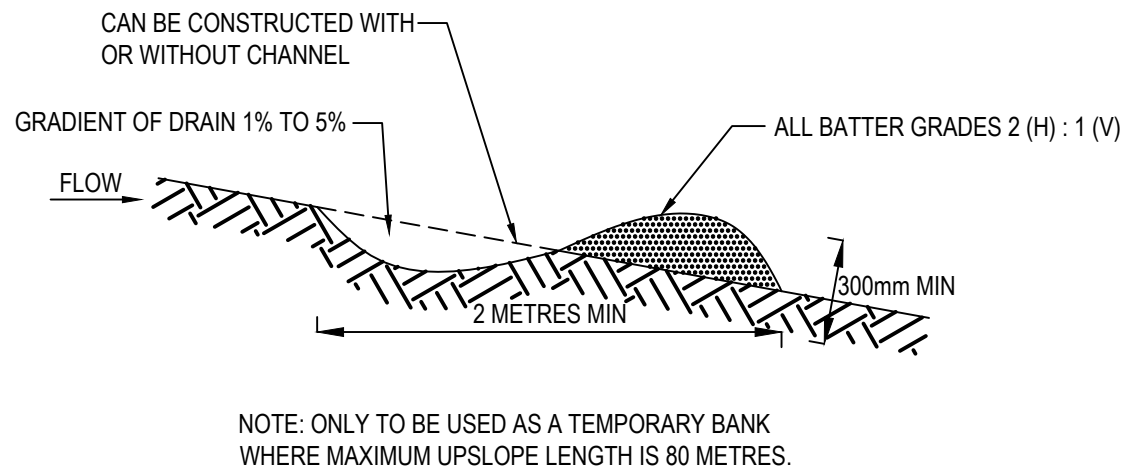


CONSTRUCTION NOTES

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, USUALL THE 10 YEAR EVENT.
2. CUT A 150 MM DEEP TRENCH ALONG THE UPSLOPE LINE OF THE FENCE FOR THE BOTTOM OF THE FABRIC TO BE ENTRENCHED.
3. DRIVE 1.5 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 150 MM OVERLAP.
6. BACKFILL TRENCH OVER THE BASE OF THE FABRIC AND COMPACT IT THOROUGHLY OVER THE GEOTEXTILE

SEDIMENT FENCE

SD 6-8



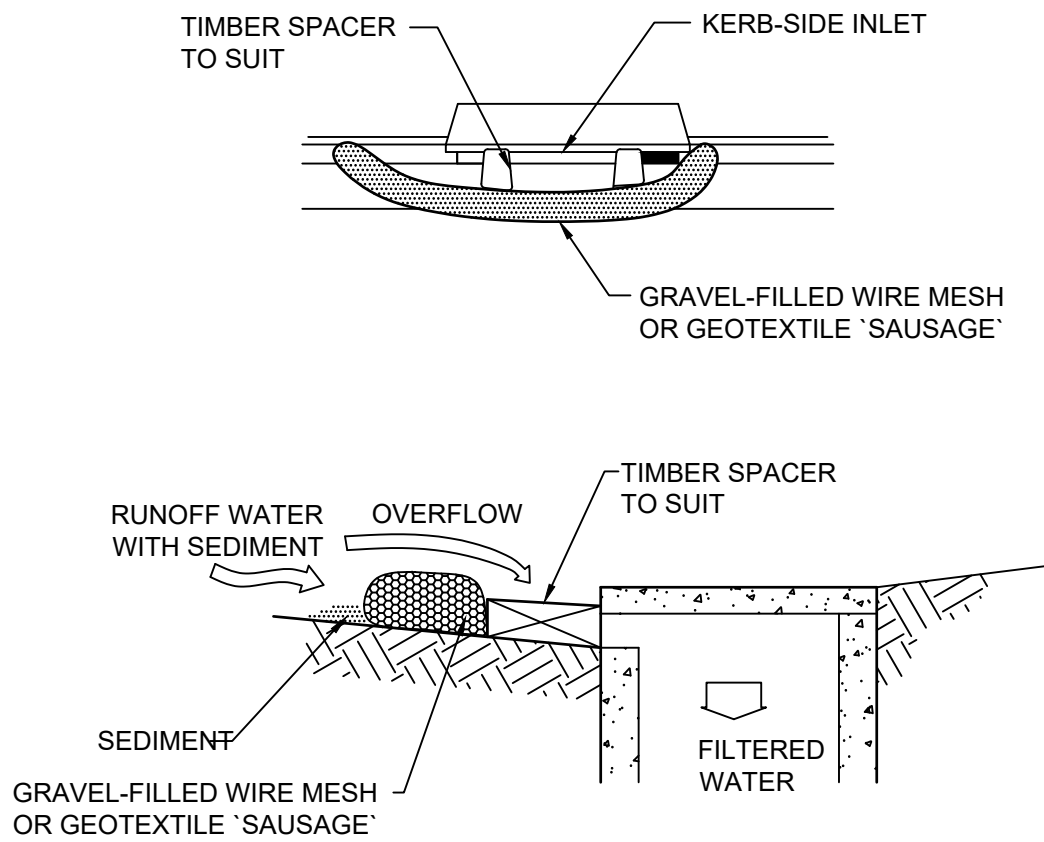
CONSTRUCTION NOTES:

1. BUILD WITH GRADIENTS BETWEEN 1% AND 5%.
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.

EARTH BANK (LOW FLOW)

SD 5-5

SOURCE: MANAGING URBAN STORMWATER
SOILS AND CONSTRUCTION
FOURTH EDITION, MARCH 2004
PRODUCED BY THE DEPARTMENT
OF HOUSING



NOTE: THIS PRACTICE ONLY TO BE USED WHERE SPECIFIED IN AN APPROVED
SWMP/ESCP.

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.

MESH AND GRAVEL INLET FILTER

SD 6-11

ISSUE FOR INFORMATION
AMENDMENTS
10.12.21
DATE
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JG
ISSUE
BY
NOT FOR CONSTRUCTION

NORTH POINT U.N.O.

ARCHITECT
BN ARCHITECTURE
82 ALEXANDER STREET
CROWS NEST, NSW 2065

CLIENT
REVELOP
SUITE 506, LEVEL 5/55
PHILLIP STREET
PARRAMATTA NSW 2150

PROJECT
CHISHOLM PLAZA
HERITAGE DRIVE
CHISHOLM NSW 2322

DESIGNED
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DRAWN
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DATE
DEC 21
SIZE
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CAD REF
TX15901.00 C01

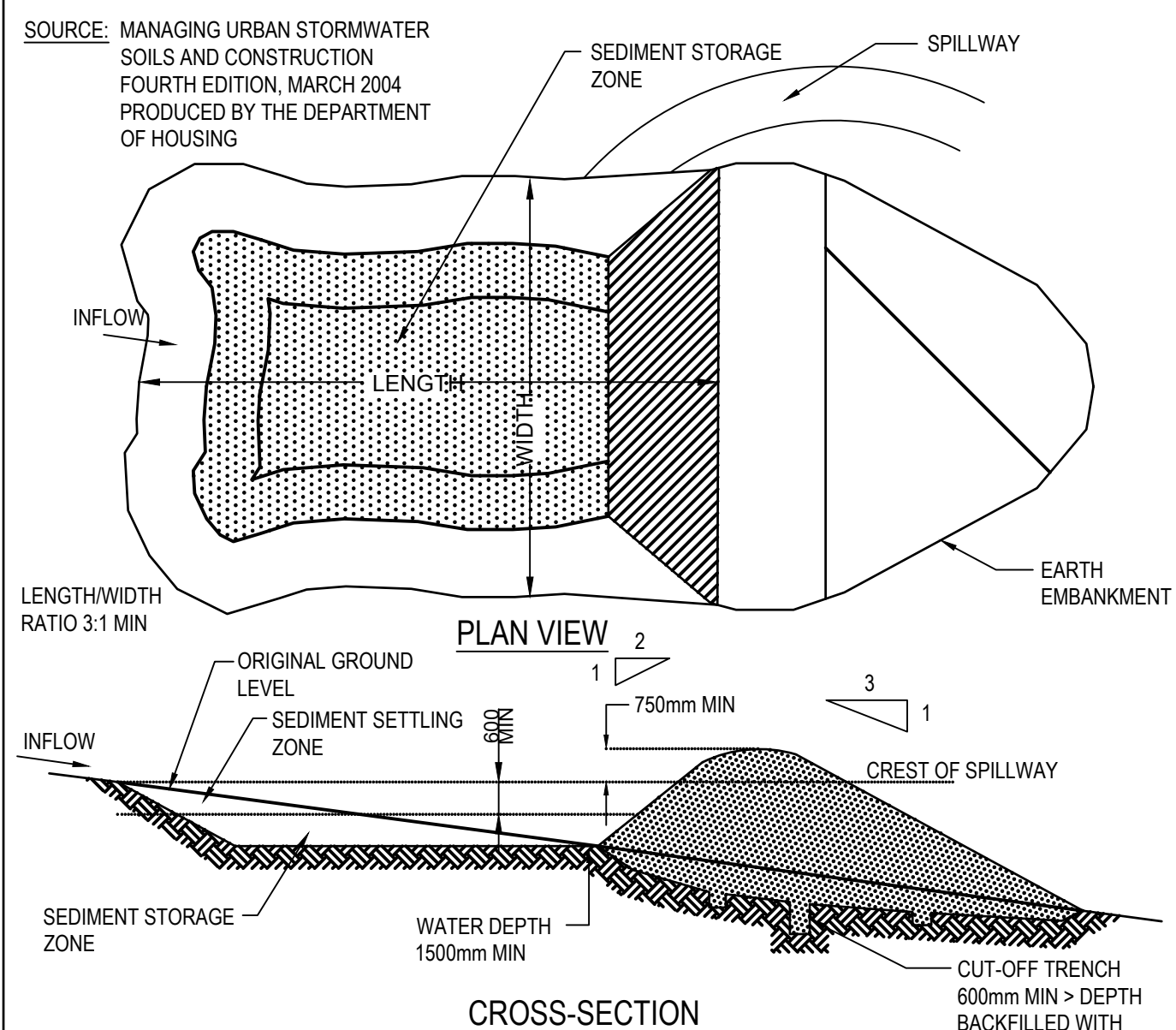


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UNIT 5, 166 HANNELL STREET, MARYVILLE NSW 2293
PO BOX 3197, TUGGERAH NSW 2259

TO BE PRINTED IN COLOUR

DRAWING TITLE
**CONCEPT SEDIMENT AND
EROSION CONTROL DETAILS**
SHEET 1 OF 2
PROJECT No.
TX15901.00
DRAWING No.
DA2.01
ISSUE
A



- CONSTRUCTION NOTES:**
1. REMOVE ALL VEGETATION AND TOPSOIL FROM UNDER THE DAM WALL AND FROM WITHIN THE STORAGE AREA.
 2. CONSTRUCT A CUT-OFF TRENCH 500 MM DEEP AND 1200 MM WIDE ALONG THE CENTRELINE OF THE EMBANKMENT EXTENDING TO A POINT ON THE GULLY WALL LEVEL WITH THE RISER CREST.
 3. MAINTAIN THE TRENCH FREE OF WATER AND RECOMPACT THE MATERIALS WITH EQUIPMENT AS SPECIFIED IN THE SWMP TO 95 PER CENT STANDARD PROCTOR DENSITY.
 4. SELECT FILL FOLLOWING THE SWMP THAT IS FREE OF ROOTS, WOOD, ROCK, LARGE STONE OR FOREIGN MATERIAL.
 5. PREPARE THE SITE UNDER THE EMBANKMENT BY RIPPING TO AT LEAST 100 MM TO HELP BOND COMPACTED FILL TO THE EXISTING SUBSTRATE.
 6. SPREAD THE FILL IN 100 MM TO 150 MM LAYERS AND COMPACT IT AT OPTIMUM MOISTURE CONTENT.
 7. CONSTRUCT THE EMERGENCY SPILLWAY.
 8. REHABILITATE THE STRUCTURE FOLLOWING THE SWMP.

EARTH BASIN - WET
(APPLIES TO TYPE 'D' AND TYPE 'F' SOILS ONLY)

SD 6-4

1. Site Data Sheet

Site Name: 20 Heritage Drive, Chisholm NSW 2322

Site Location: HUNTER - LOWER

Precinct: Eastern Catchment

Description of Site: Soil Landscape: Bersefield (be)
Soil Hydrologic Group: Group C and B
Sediment Type: Type D and F
Soil Erodibility K-factors: 0.033 (Type D)
0.018 (Type D)
0.048 (Type F)
0.028 (Type F)
0.017 (Type F)

Site area	Site						Remarks
	1	2	3	4	5		
Total catchment area (ha)	0.97	0.97	0.97	0.97	0.97		
Disturbed catchment area (ha)	0.97	0.97	0.97	0.97	0.97		
Soil analysis							
% sand (fraction 0.02 to 2.00 mm)	53	53	67	67	67		Soil texture should be assessed through mechanical dispersion only . Dispersing agents (e.g. Calgon) should not be used
% silt (fraction 0.002 to 0.02 mm)	30	30	22	22	22		
% clay (fraction finer than 0.002 mm)	17	17	11	11	11		
Dispersion percentage	32.0	32.0	22.0	22.0	22.0		E.g. enter 10 for dispersion of 10%
% of whole soil dispersible	10.24	10.24	4.84	4.84	4.84		See Section 6.3.3(e)
Soil Texture Group	D	D	F	F	F		See Section 6.3.3(c), (d) and (e)
Rainfall data							
Design rainfall depth (days)	5	5	5	5	5		See Sections 6.3.4 (d) and (e)
Design rainfall depth (percentile)	75	75	75	75	75		See Sections 6.3.4 (f) and (g)
x-day, y-percentile rainfall event	20.3	20.3	20.3	20.3	20.3		See Section 6.3.4 (h)
Rainfall intensity: 2-year, 6-hour storm	9.79	9.79	9.79	9.79	9.79		See IFD chart for the site
RUSLE Factors							
Rainfall erosivity (R-factor)	2130	2130	2130	2130	2130		Automatic calculation from above data
Soil erodibility (K-factor)	0.015	0.07	0.015	0.07	0.015		RUSLE data can be obtained from Appendixes A, B and C
Slope length (m)	60	60	60	60	60		
Slope gradient (%)	6	6	6	6	6		
Length/gradient (LS-factor)	1.24	1.24	1.24	1.24	1.24		
Erosion control practice (P-factor)	1.3	1.3	1.3	1.3	1.3		
Ground cover (C-factor)	1	1	1	1	1		
Calculations							
Soil loss (t/ha/yr)	52	240	52	240	52		See Section 4.4.2(b)
Soil Loss Class	1 - V.LOW	3-LOW-MOD	1 - V.LOW	3-LOW-MOD	1 - V.LOW		
Soil loss (m ³ /ha/yr)	40	185	40	185	40		
Soil loss (m ³ /yr)	38	179	38	179	38		
Sediment basin storage volume, m ³	0	30	0	30	0		See Sections 6.3.4(i) and 6.3.5 (e)

1. Site Data Sheet

Site Name: 20 Heritage Drive, Chisholm NSW 2322

Site Location: HUNTER - LOWER

Precinct: Western Catchment

Description of Site: Soil Landscape: Bersefield (be)
Soil Hydrologic Group: Group C and B
Sediment Type: Type D and F
Soil Erodibility K-factors: 0.033 (Type D)
0.018 (Type D)
0.048 (Type F)
0.028 (Type F)
0.017 (Type F)

Site area	Site						Remarks
	1	2	3	4	5		
Total catchment area (ha)	3.38	3.38	3.38	3.38	3.38		
Disturbed catchment area (ha)	3.38	3.38	3.38	3.38	3.38		
Soil analysis							
% sand (fraction 0.02 to 2.00 mm)	53	53	67	67	67		Soil texture should be assessed through mechanical dispersion only. Dispersing agents (e.g. Calgon) should not be used
% silt (fraction 0.002 to 0.02 mm)	30	30	22	22	22		
% clay (fraction finer than 0.002 mm)	17	17	11	11	11		
Dispersion percentage	32.0	32.0	22.0	22.0	22.0		E.g. enter 10 for dispersion of 10%
% of whole soil dispersible	10.24	10.24	4.84	4.84	4.84		See Section 6.3.3(e)
Soil Texture Group	D	D	F	F	F		See Section 6.3.3(c), (d) and (e)
Rainfall data							
Design rainfall depth (days)	5	5	5	5	5		See Sections 6.3.4 (d) and (e)
Design rainfall depth (percentile)	75	75	75	75	75		See Sections 6.3.4 (f) and (g)
x-day, y-percentile rainfall event	20.3	20.3	20.3	20.3	20.3		See Section 6.3.4 (h)
Rainfall intensity: 2-year, 6-hour storm	9.79	9.79	9.79	9.79	9.79		See IFD chart for the site
RUSLE Factors							
Rainfall erosivity (R-factor)	2130	2130	2130	2130	2130		Automatic calculation from above data
Soil erodibility (K-factor)	0.015	0.07	0.015	0.07	0.015		RUSLE data can be obtained from Appendixes A, B and C
Slope length (m)	190	190	190	190	190		
Slope gradient (%)	5	5	5	5	5		
Length/gradients (LS-factor)	1.7	1.7	1.7	1.7	1.7		
Erosion control practice (P-factor)	1.3	1.3	1.3	1.3	1.3		
Ground cover (C-factor)	1	1	1	1	1		
Calculations							
Soil loss (t/ha/yr)	71	329	71	329	71		See Section 4.4.2(b)
Soil Loss Class	1 - V.LOW	3-LOW-MOD	1 - V.LOW	3-LOW-MOD	1 - V.LOW		
Soil loss (m³/ha/yr)	54	253	54	253	54		
Soil loss (m³/yr)	184	857	184	857	184		
Sediment basin storage volume, m³	31	146	31	146	31		See Sections 6.3.4(i) and 6.3.5 (e)

ISSUE FOR INFORMATION
AMENDMENTS

10.12.21
DATE
A
JG
ISSUE
BY

NOT FOR CONSTRUCTION

NORTH POINT U.N.O.

ARCHITECT

BN ARCHITECTURE
82 ALEXANDER STREET
CROWS NEST, NSW 2065

CLIENT

REVELOP
SUITE 506, LEVEL 5/55
PHILLIP STREET
PARRAMATTA NSW 2150

PROJECT

CHISHOLM PLAZA
HERITAGE DRIVE
CHISHOLM NSW 2322

DESIGNED
--
DRAWN
--
DATE
DEC 21
SIZE
SIZE
CAD REF
TX15901.00 C01



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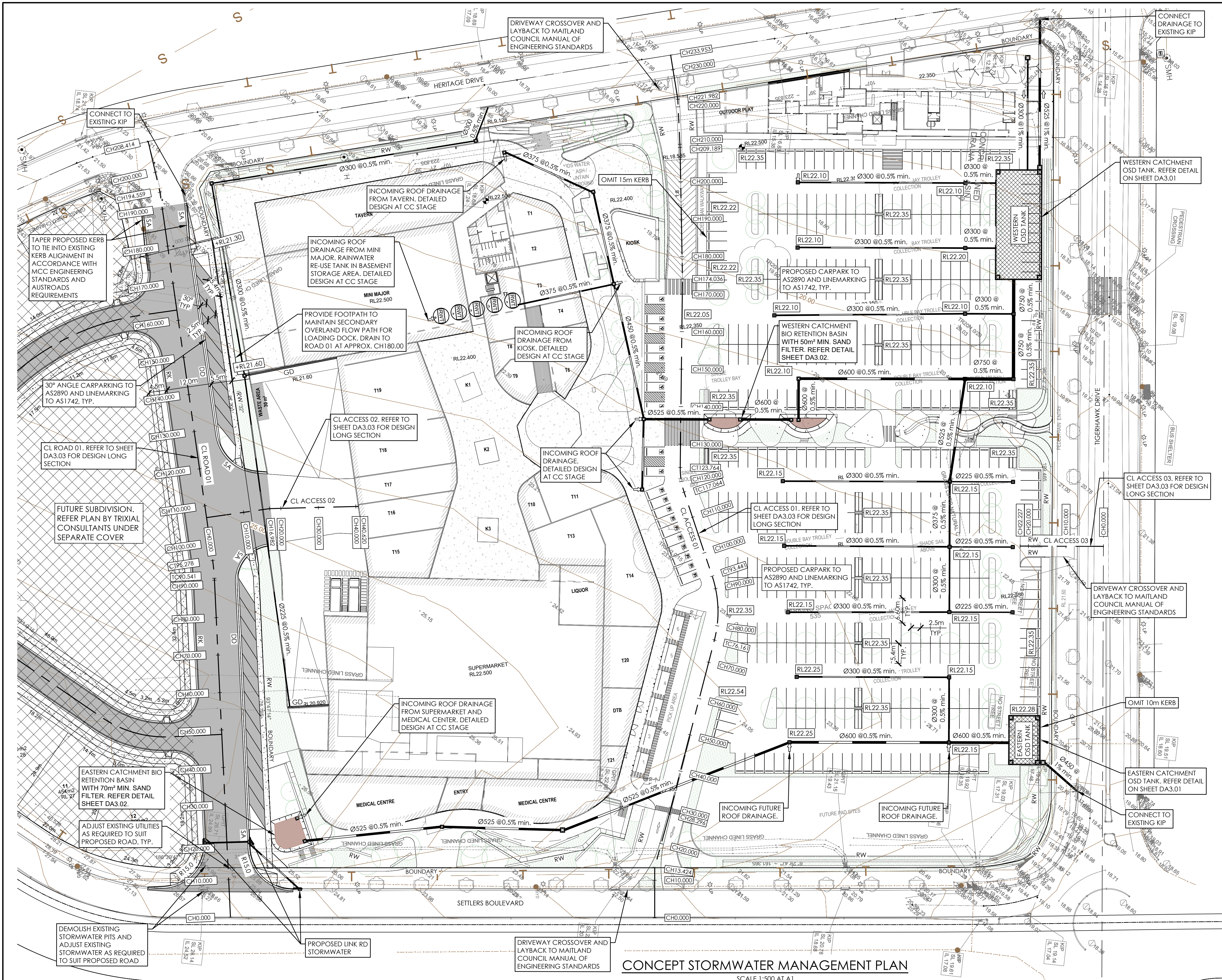
UNIT 5, 166 HANNELL STREET, MARYVILLE NSW 2293
PO BOX 3197, TUGGERAH NSW 2259

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DRAWING TITLE

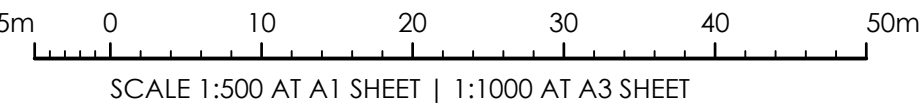
CONCEPT SEDIMENT AND
EROSION CONTROL DETAILS
SHEET 2 OF 2
PROJECT No.

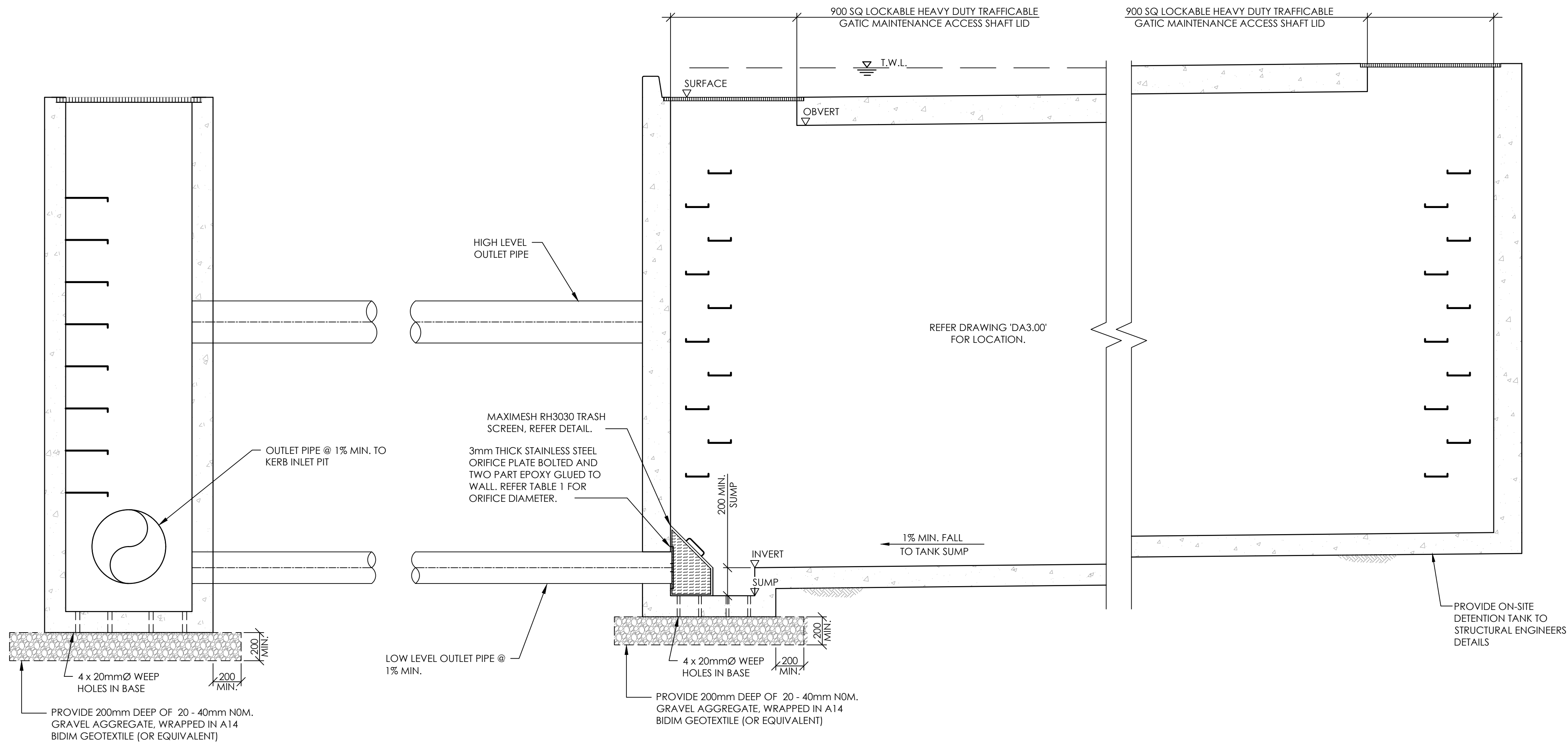
TX15901.00
DRAWING No.
DA2.02 A
ISSUE



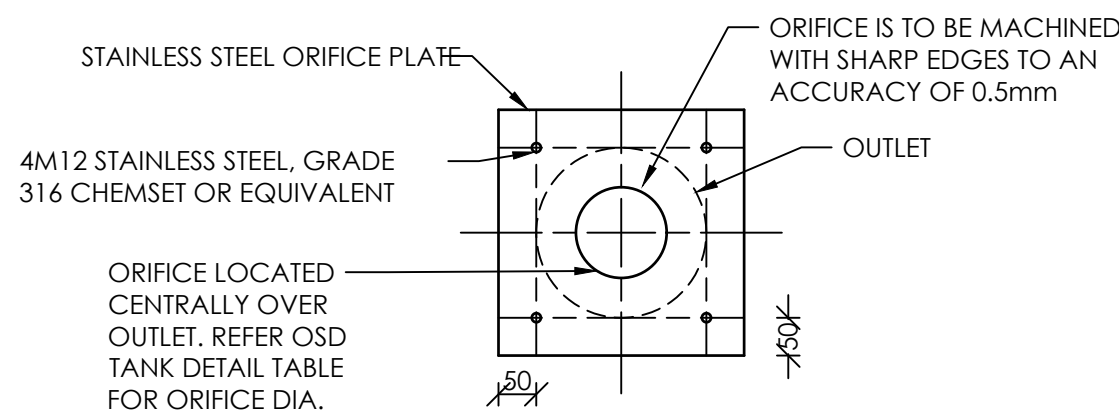
LEGEND	
SYMBOL	DESCRIPTION
	ASPHALT PAVEMENT
	CONCRETE PATH. FINISH TO ARCHITECTS DETAIL
	VEGETATION / LANDSCAPING
	OSD TANK
	PROPOSED BUILDINGS
	BIO-RETENTION BASINS
	GRATED INLET PIT (GIP) (U.N.O.)
	JUNCTION PIT (JP) (U.N.O.)
	KERB INLET PIT (KIP) (U.N.O.)
	STORMWATER PIPE @ 0.5% MIN. U.N.O.
	0.3m WIDE HD GRATED DRAIN
	34,000L RAINWATER RE-USE TANK
	DISH DRAIN TO MAITLAND COUNCIL STANDARD DRAWINGS.
	SA TYPE KERB AND GUTTER TO MAITLAND COUNCIL STANDARD DRAWINGS.
	ROLL TOP KERB AND GUTTER TO MAITLAND COUNCIL STANDARD DRAWINGS.
	RETAINING WALL DETAIL BY OTHERS
	NOMINAL FINISHED SURFACE LEVEL - REFER TO ARCHITECTURAL PLANS BY BN ARCHITECTURE FOR FINISHED FLOOR LEVELS AND SITE FINISHED SURFACE LEVEL

NOTE:
THIS IS A PLANNING DRAWING ONLY. FOR THE PURPOSE OF CONCEPTUAL DESIGN AND/OR PLANNING. FURTHER DETAILED ENGINEERING DESIGN INCLUDING SPECIFICATIONS, SIZING AND STORMWATER INVERTS TO BE PROVIDED PRIOR TO BUILDING RULES ASSESSMENT AND CONSTRUCTION.



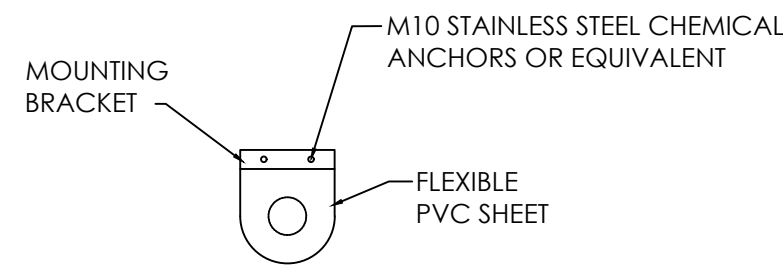


TYPICAL SECTION THROUGH EASTERN/WESTERN OSD TANK
SCALE - 1:20 @ A1

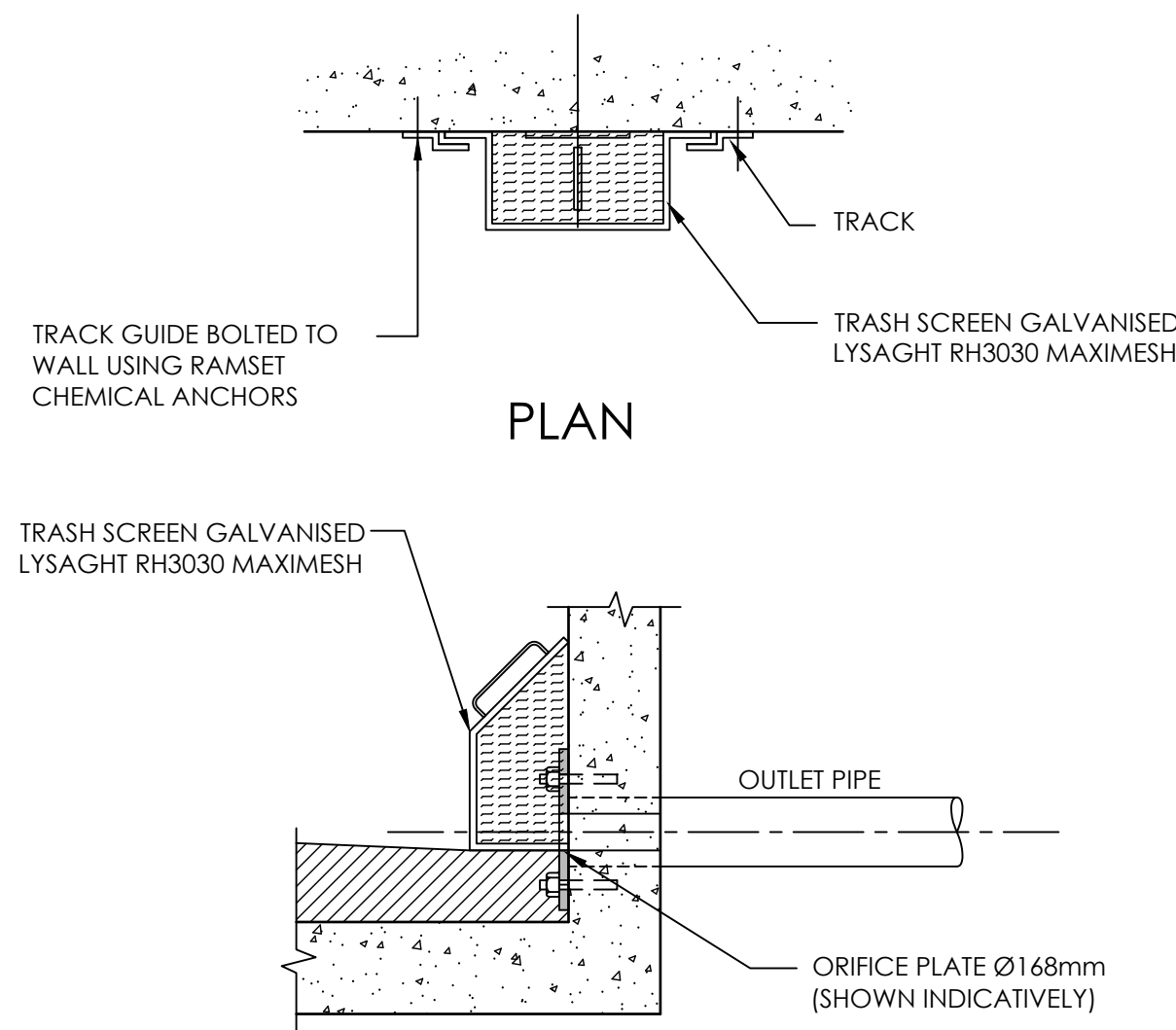


ORIFICE PLATE DETAILS
SCALE 1:10

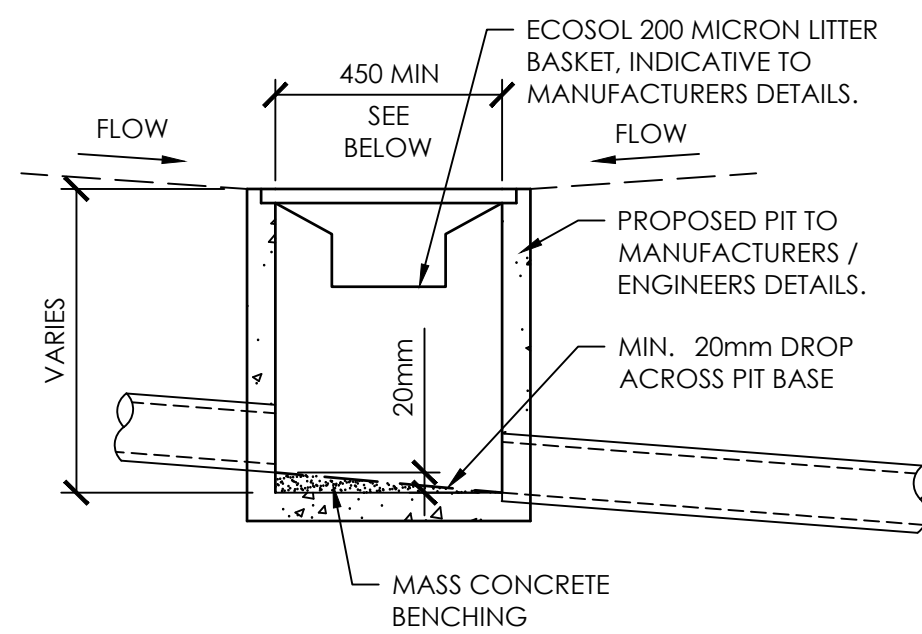
OSD TANK DETAILS			
TANK	WESTERN	EASTERN	
SURFACE RL	22.20m	22.20m	(AHD)
OBVERT RL	22.00m	22.00m	(AHD)
BASE RL	20.00m	20.00m	(AHD)
SUMP RL	19.80m	19.80m	(AHD)
LOW LEVEL OUTLET DIAMETER	300mm	300mm	
LOW LEVEL OUTLET INVERT RL	19.85m	19.85m	(AHD)
ORIFICE DIAMETER	150mm	112mm	
ORIFICE CENTERLINE RL	20.00m	20.00m	(AHD)
HIGH LEVEL OUTLET DIAMETER	2X300mm	300mm	
HIGH LEVEL OUTLET INVERT RL	21.65m	21.45m	(AHD)
OVERFLOW WEIR LENGTH	16.00m	10.00m	
OVERFLOW WEIR RL	22.23m	22.28m	(AHD)
SURFACE AREA	350m ²	120m ²	
TOP WATER LEVEL	22.30m	22.35m	(AHD)
1% AEP OSD VOLUME (m ³)	780.7m ³	342.9m ³	



NICHOLAS FLEXI FLAP VALVE
SCALE 1:20
INSTALLED TO MANUFACTURERS DETAILS

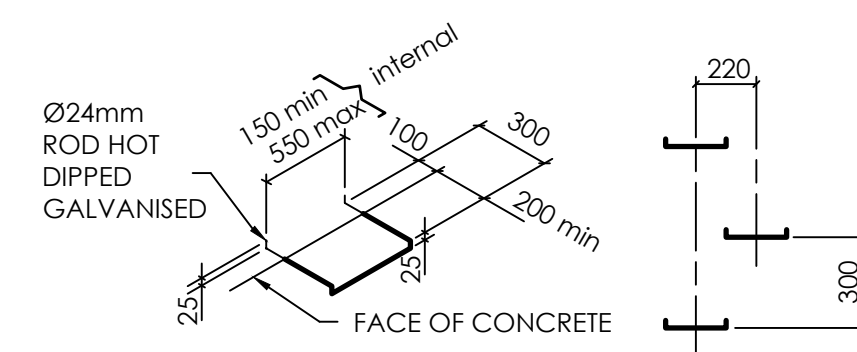


SIDE VIEW CROSS SECTION
MAXIMESH TRASH SCREEN DETAIL
SCALE NTS

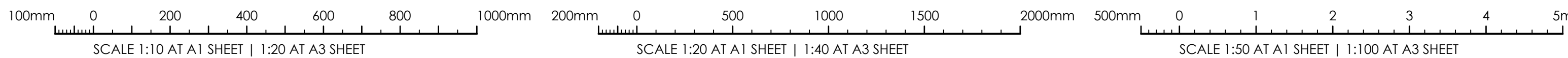


TYPICAL GRATED SURFACE INLET
PIT DETAIL
N.T.S.

450 X 450 PLAN INTERNAL PIT DIMENSIONS FOR PITS LESS THAN 600 DEEP
600 X 600 PLAN INTERNAL PIT DIMENSIONS FOR PITS LESS THAN 900 DEEP
600 X 900 PLAN INTERNAL PIT DIMENSIONS FOR PITS 900 TO 1200 DEEP
900 X 900 PLAN INTERNAL PIT DIMENSIONS FOR PITS GREATER THAN 1200 DEEP
NOTE: STORMWATER PITS LESS THAN 600 SQUARE AND 600 DEEP MAY BE REPLACED WITH PLASTIC PITS IF NOT LOCATED IN ROADWAYS AND WRITTEN PERMISSION IS OBTAINED FROM THE ENGINEER.



STEP IRON DETAIL
PROVIDE STEP IRONS TO PITS DEEPER THAN 1200mm & TO 6000mm MAX DEPTH. (TO COMPLY WITH AS1657-1992, 5.7)



ISSUE FOR INFORMATION
AMENDMENTS

10.12.21
DATE
A JG
ISSUE BY

NORTH POINT U.N.O.

ARCHITECT
BN ARCHITECTURE
82 ALEXANDER STREET
CROWS NEST, NSW 2065

CLIENT
REVELOP
SUITE 506, LEVEL 5/55
PHILLIP STREET
PARRAMATTA NSW 2150

PROJECT
CHISHOLM PLAZA
HERITAGE DRIVE
CHISHOLM NSW 2322

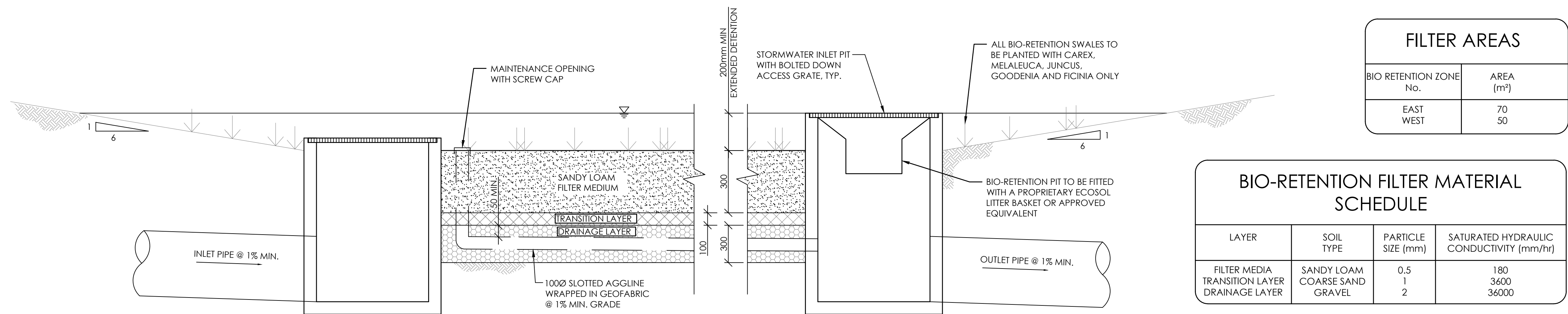
DESIGNED BK
DRAWN CW
DATE DEC 21
SIZE
CAD REF TX15901.00 C01



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DRAWING TITLE
**CONCEPT STORMWATER
MANAGEMENT DETAILS SHEET 1
OF 2**
PROJECT No. TX15901.00
DRAWING No. DA3.01
ISSUE A

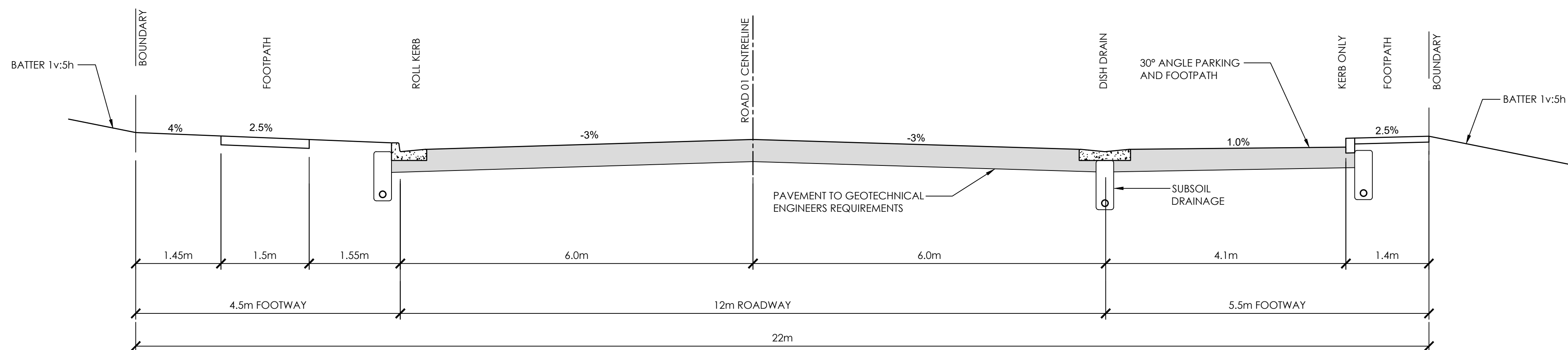


TYPICAL SECTION THROUGH BIO-RETENTION FILTER
SCALE NTS

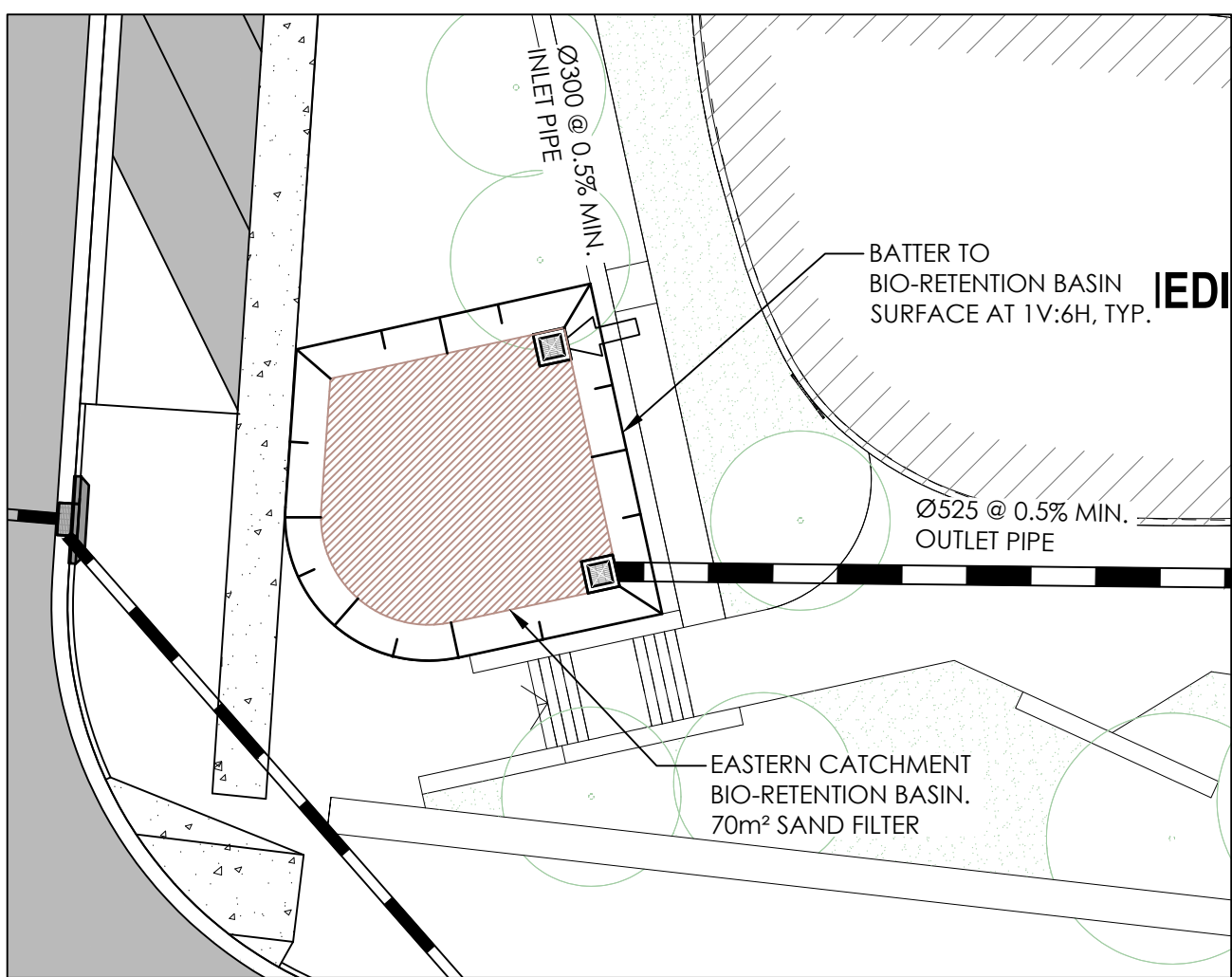
FILTER AREAS	
BIO RETENTION ZONE No.	AREA (m²)
EAST WEST	70 50

BIO-RETENTION FILTER MATERIAL SCHEDULE			
LAYER	SOIL TYPE	PARTICLE SIZE (mm)	SATURATED HYDRAULIC CONDUCTIVITY (mm/hr)
FILTER MEDIA	SANDY LOAM	0.5	180
TRANSITION LAYER	COARSE SAND	1	3600
DRAINAGE LAYER	GRAVEL	2	36000

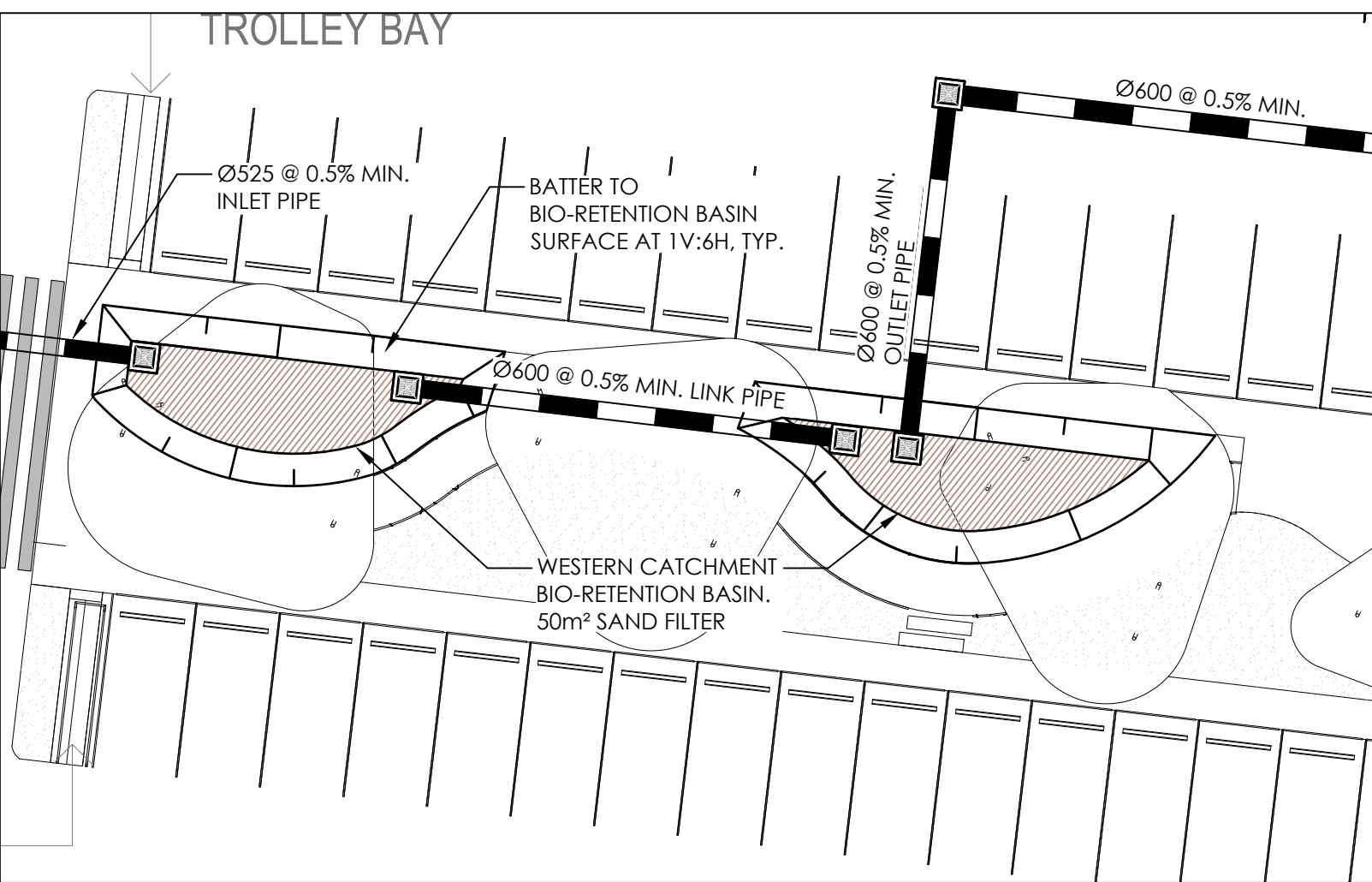
- BIO-RETENTION FILTER NOTES**
- FILTERS, SWALES AND BASINS TO BE CONSTRUCTED IN LOCATIONS AS LOCATED UPON THE DRAWINGS AND IN ACCORDANCE WITH THE DETAILS WITHIN THE DRAWING SET.
 - FILTER MEDIA AS SPECIFIED IS TO BE IN ACCORDANCE WITH THE FOLLOWING TABLE:
- | FILTER MEDIA TYPE | MEDIAN PARTICLE SIZE (mm) | MAX SATURATED HYDRAULIC CONDUCTIVITY (mm/hr) |
|-------------------|---------------------------|--|
| GRAVEL | 2 | 36000 |
| COARSE SAND | 1 | 3600 |
| SAND | 0.7 | 360 |
| SANDY LOAM | 0.45 | 180 |
- CONTRACTOR IS TO PROVIDE RELEVANT TESTING CERTIFICATION FROM THE MEDIA SUPPLIER SHOWING CONFORMANCE WITH THE ABOVE TABLE WITH RESPECT TO PARTICLE SIZE.
 - SUBSOIL DRAINS ARE TO BE INSTALLED UPON A 100mm LAYER OF THE FILTER MEDIA, WITHIN 300mm OF THE FILTER PIT EXCAVATION PERIMETER, AND AT A MAXIMUM 5 METRE GRID THROUGHOUT THE FILTER AREA.
 - FILTERS OF LESS THAN OR EQUAL TO 2m WIDTH, I.E. FILTER TRENCHES MAY HAVE A SINGLE SUBSOIL DRAIN LOCATED CENTRALLY TO THE FILTER TRENCH AND IS TO EXTEND FOR THE FULL EXTENT OF THE FILTER TRENCH.
 - OUTLET LINES FROM FILTER AREAS ARE TO BE CONNECTED IMMEDIATELY TO FITTINGS TO SUIT THE OUTLET LINE DIAMETER AND PIPE MATERIAL. THE OUTLET LINE IS TO FALL AT A MINIMUM OF 1% GRADIENT TO POINT OF OUTLET AS SHOWN ON THE DRAWINGS.
 - PERFORATED SUBSOIL uPVC CONDUITS ARE NOT TO BE USED THROUGH EARTHEN BASIN WALLS WITHOUT APPROVAL FROM THE DESIGNING ENGINEER.
 - THE CERTIFYING ENGINEER IS TO INSPECT AND VERIFY THE FILTER EXCAVATION PIT DIMENSIONS AND CONFIRM ADEQUACY PRIOR TO PLACEMENT OF FILTER MEDIA.
 - PLANTINGS UPON FILTER AREAS ARE TO BE AS SPECIFIED ON THE DRAWINGS AND SHOULD BE OF A GRASS OR SHRUB OF TYPE CAREX, JUNCUS, GOODENIA OR FICINIA UNLESS NOTED OTHERWISE, AND AT A DENSITY AS SPECIFIED ON THE DRAWINGS OR IF NOT NOTED AS SPECIFIED BY A QUALIFIED LANDSCAPE/ HORTICULTURE CONSULTANT.



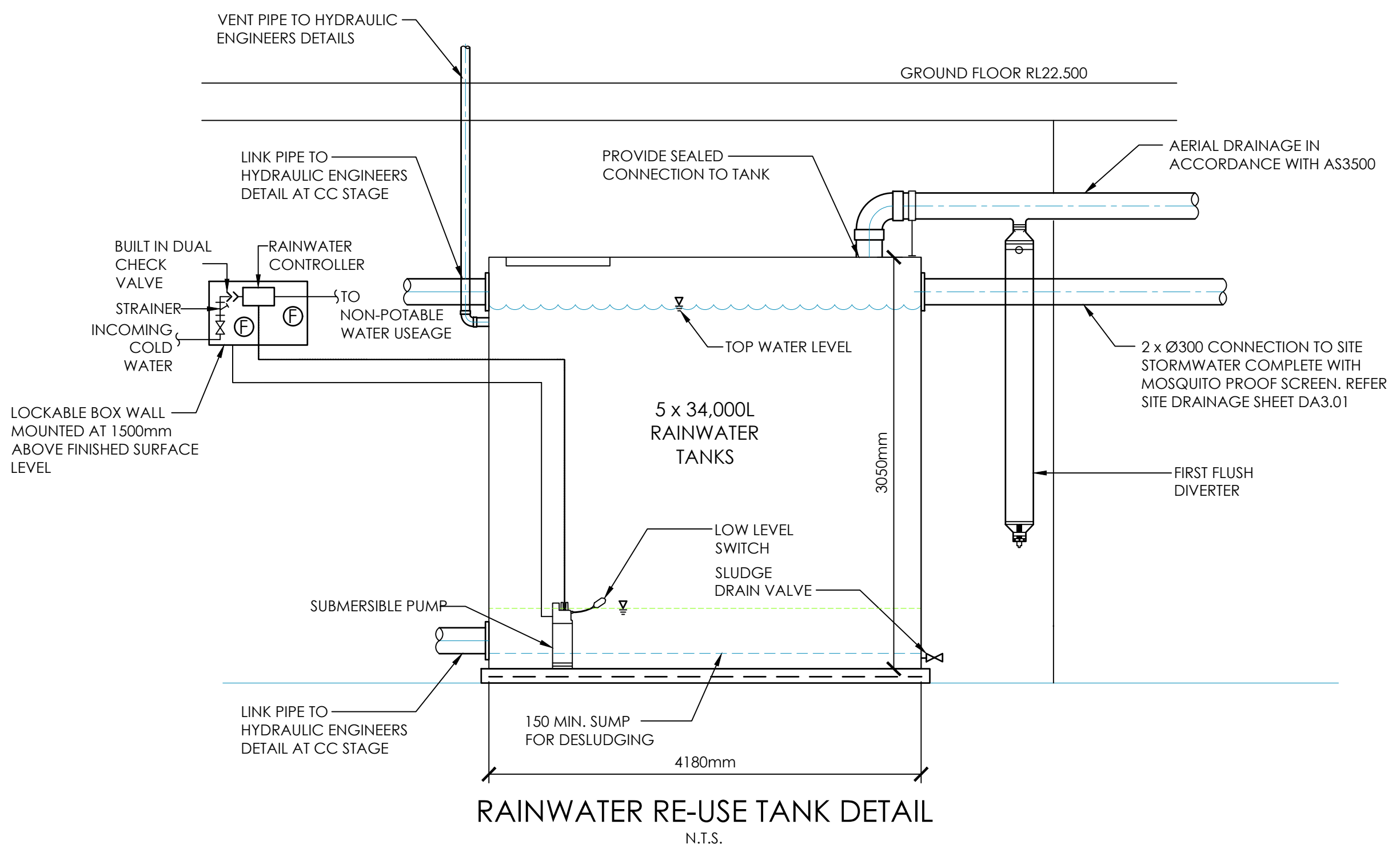
TYPICAL SECTION - ROAD 01
SCALE 1:50



EASTERN BIO BASIN INSET PLAN
SCALE 1:200
NOTE: REFER SHEET DA3.00 FOR OVERALL SITE PLAN



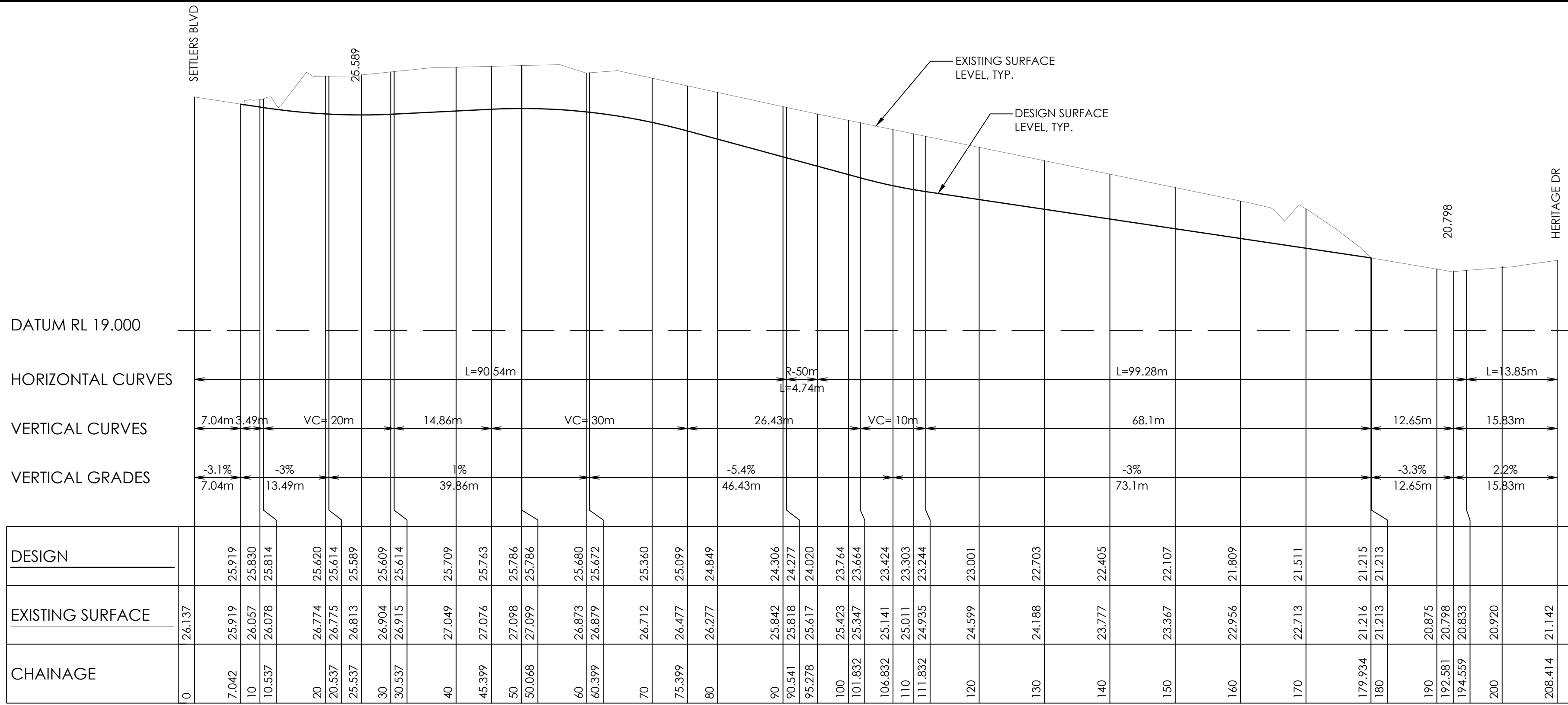
WESTERN BIO BASIN INSET PLAN
SCALE 1:200
NOTE: REFER SHEET DA3.00 FOR OVERALL SITE PLAN



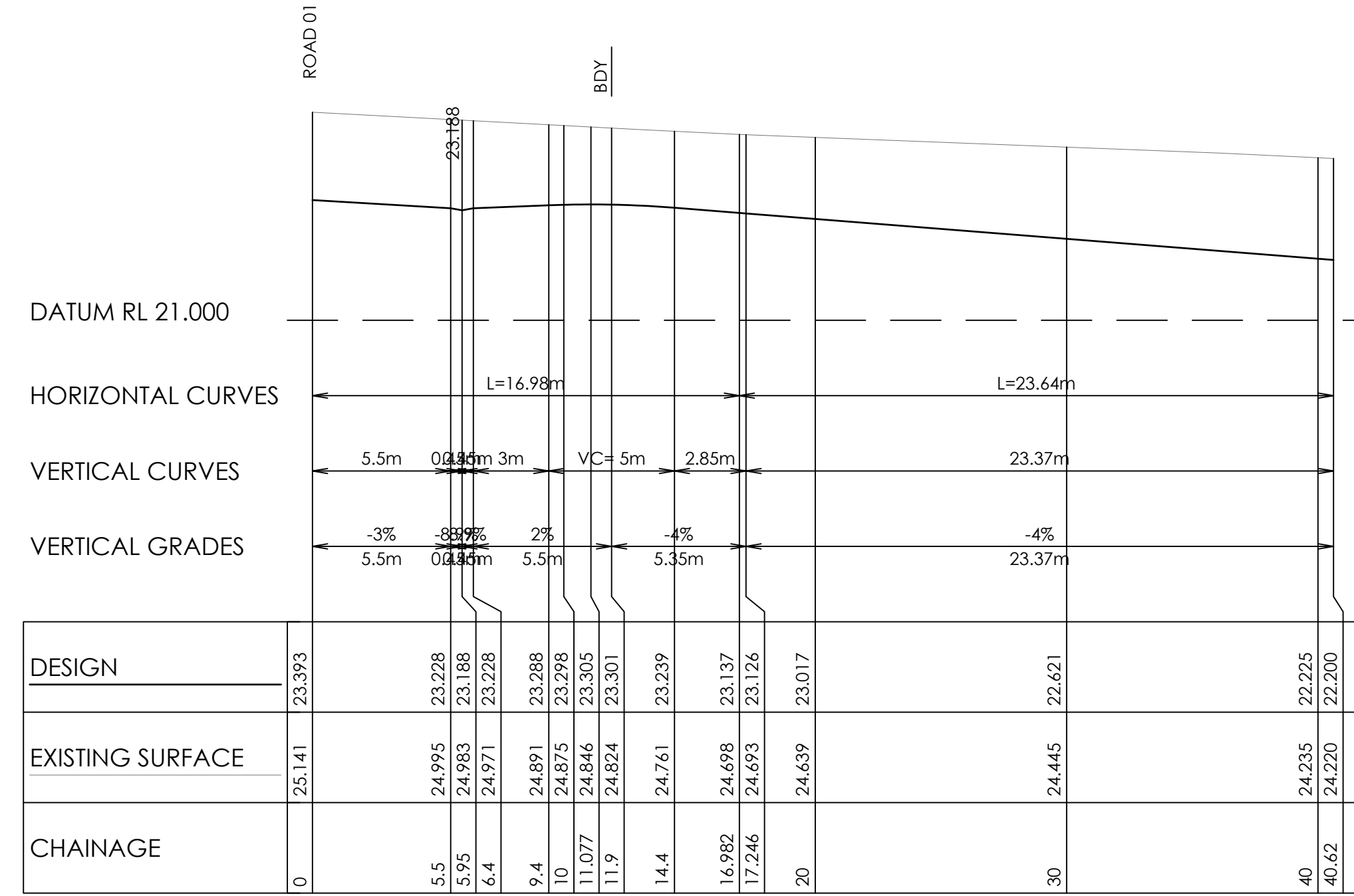
RAINWATER RE-USE TANK DETAIL
N.T.S.

500mm 0 1 2 3 4 5m
SCALE 1:50 AT A1 SHEET | 1:100 AT A3 SHEET

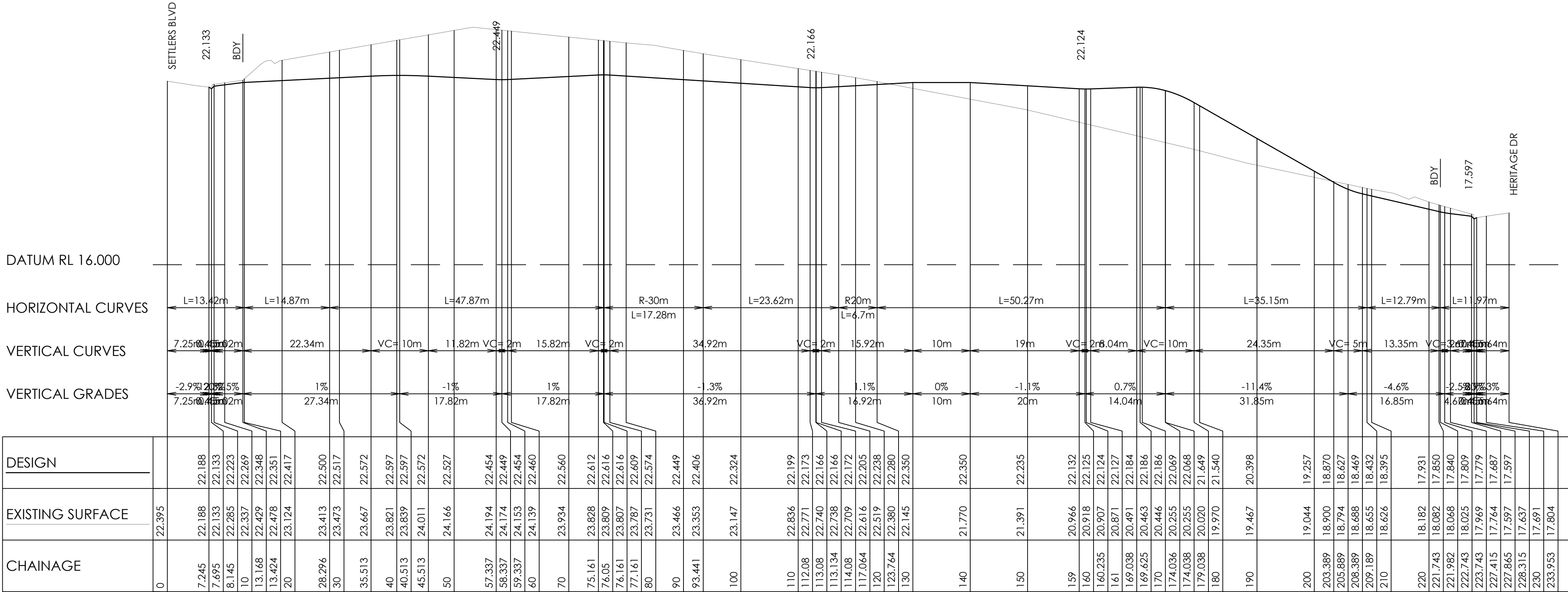
2m 0 5 10 15 20m
SCALE 1:200 AT A1 SHEET | 1:400 AT A3 SHEET



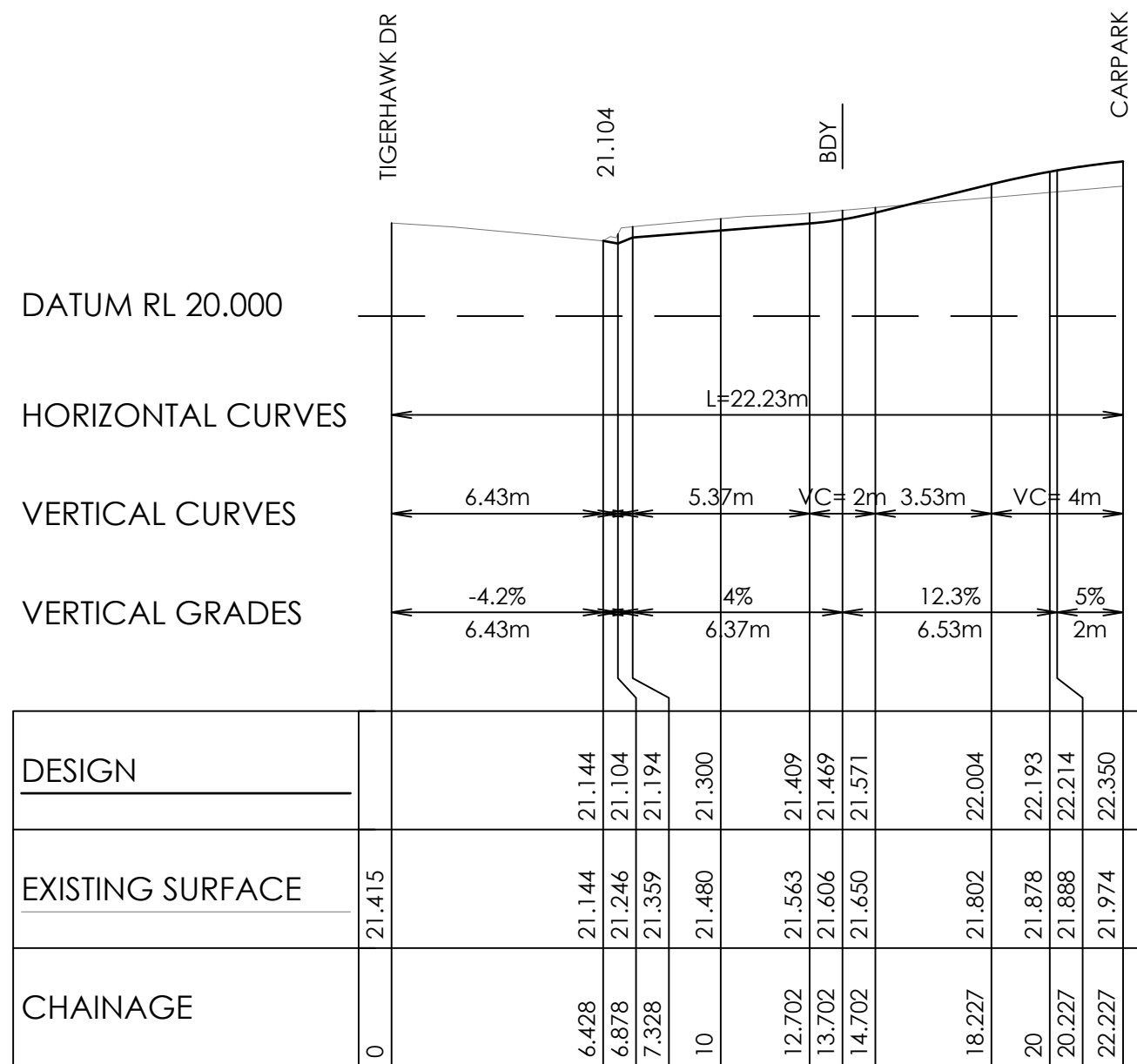
ROAD 01 CL - LONGITUDINAL SECTION
A1 HORZ SCALE 1:500
A1 VERT SCALE 1:100



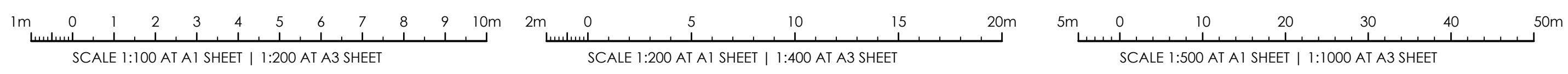
ACCESS 02 CL - LONGITUDINAL SECTION
A1 HORZ SCALE 1:200
A1 VERT SCALE 1:100

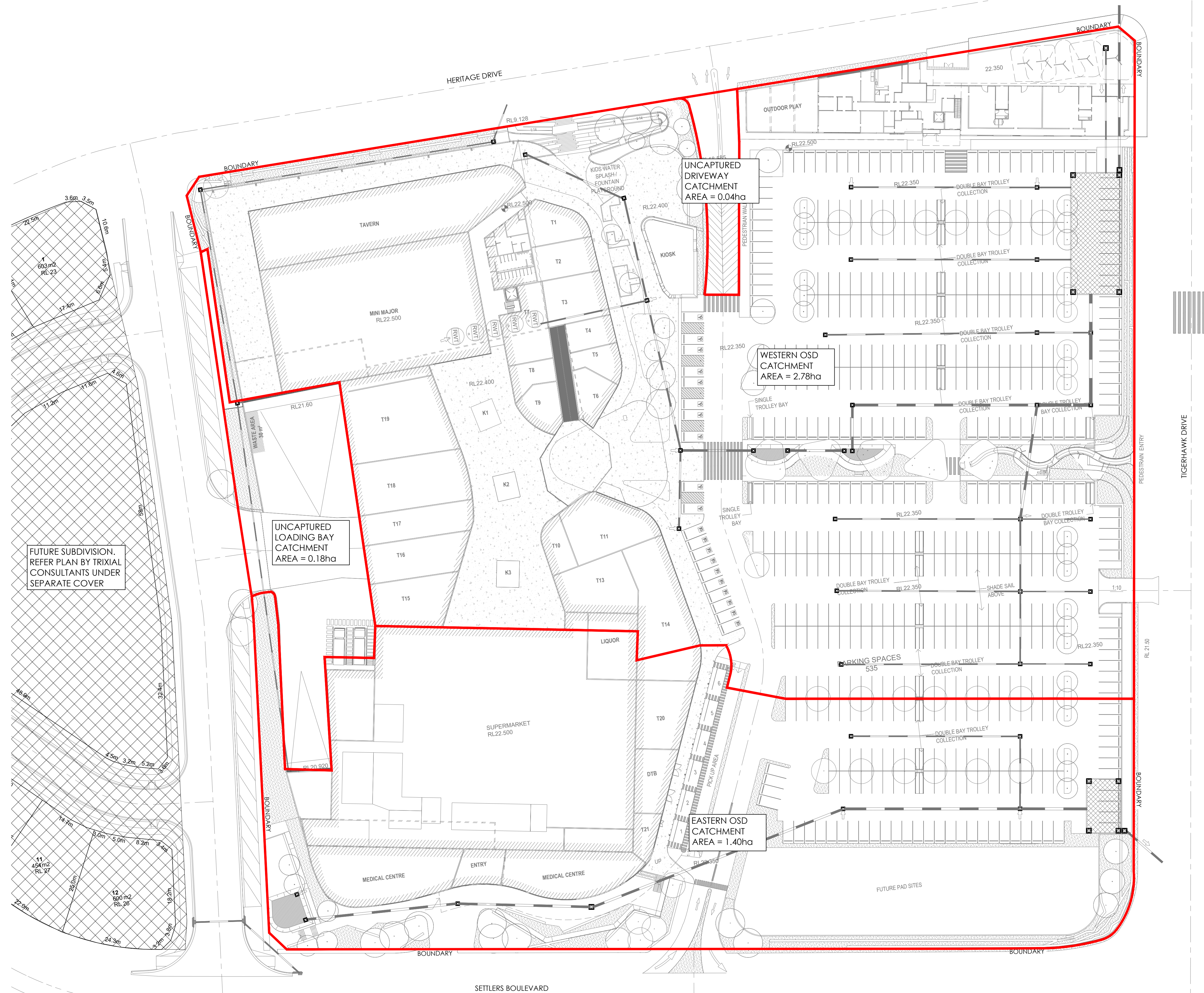


ACCESS 01 CL - LONGITUDINAL SECTION
A1 HORZ SCALE 1:500
A1 VERT SCALE 1:100



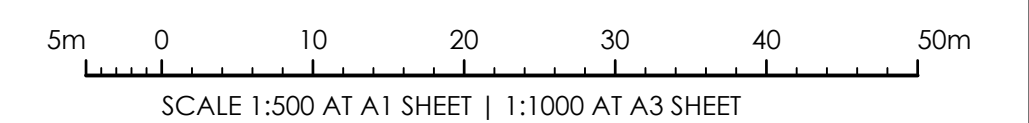
ACCESS 03 CL - LONGITUDINAL SECTION
A1 HORZ SCALE 1:200
A1 VERT SCALE 1:100





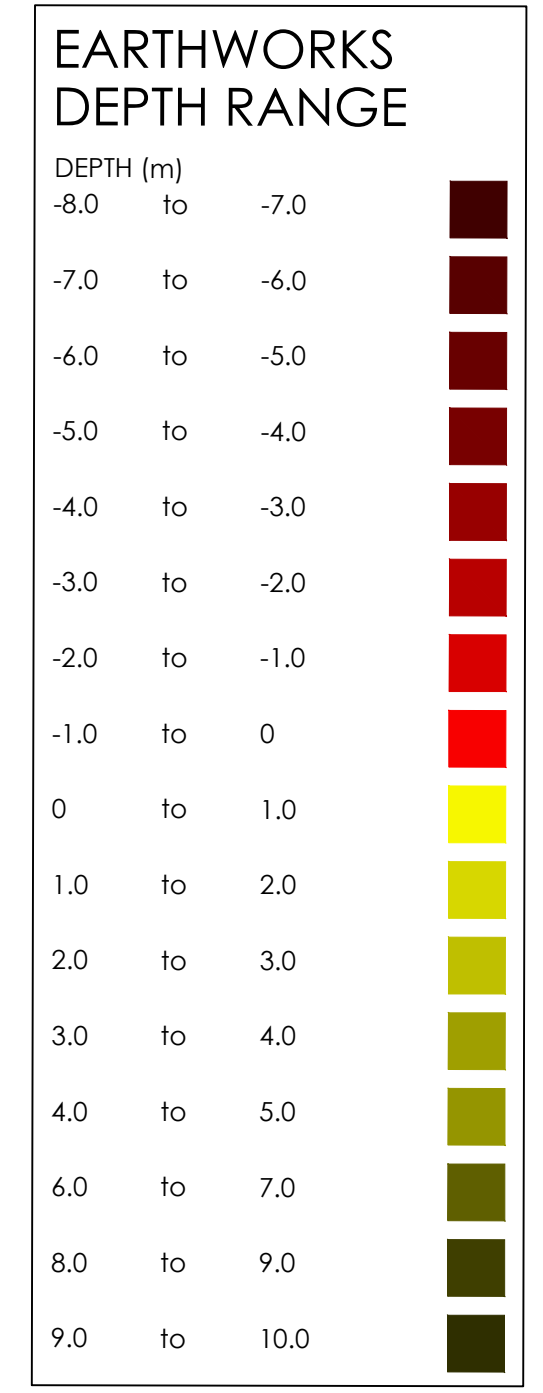
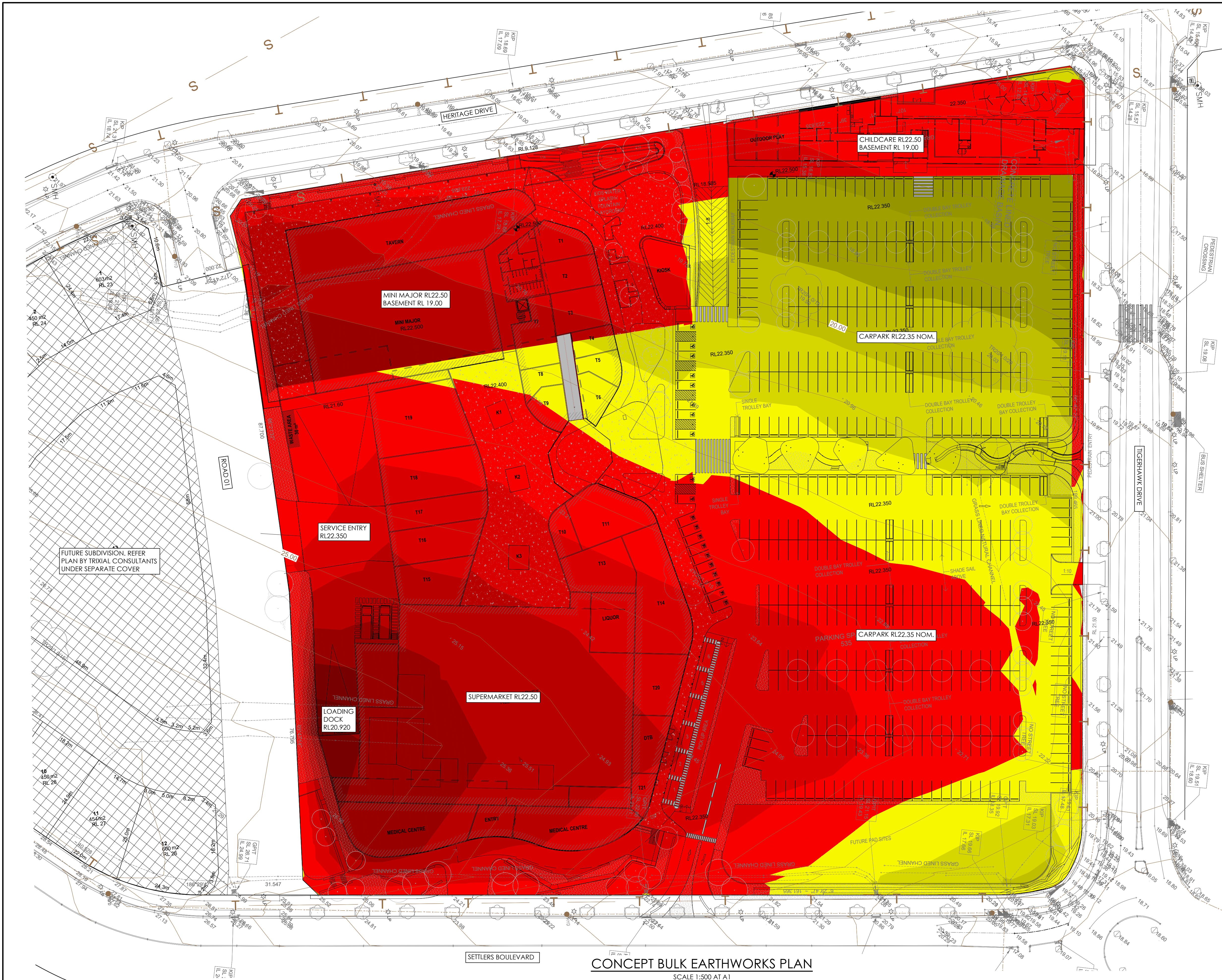
CONCEPT STORMWATER CATCHMENT PLAN

SCALE 1:500 AT A1



LEGEND	
SYMBOL	DESCRIPTION
	OSD CATCHMENT BOUNDARY

ISSUE FOR INFORMATION				10.12.21	A	JG
AMENDMENTS				DATE	ISSUE	BY
NORTH POINT U.N.O.						
ARCHITECT						
BN ARCHITECTURE						
82 ALEXANDER STREET						
CROWS NEST, NSW 2065						
CLIENT						
REVELOP						
SUITE 506, LEVEL 5/55						
PHILLIP STREET						
PARRAMATTA NSW 2150						
PROJECT						
CHISHOLM PLAZA						
HERITAGE DRIVE						
CHISHOLM NSW 2322						
DESIGNED	DRAWN	DATE	SIZE	CAD REF		
BK	CW	DEC 21	SIZE	TX15901.00	C01	
						
T R I A X I A L						
C O N S U L T I N G						
COMPLEX PROBLEMS						
RESOLVED SIMPLY						
1300 874 294 TRIAXIAL.COM.AU						
UNIT 5, 146 HANNELL STREET, MARYVILLE NSW 2293						
PO BOX 3197, TUGGERAH NSW 2259						
DRAWING TITLE						
CONCEPT STORMWATER						
CATCHMENT PLAN						
PROJECT No.						
TX15901.00						
DRAWING No.						
DA3.04						
ISSUE						
A						



BULK EARTHWORKS NOTES

- THE CONCEPTUAL BULK EARTHWORK LEVELS SHOWN ARE NOMINAL FINISHED SURFACE LEVEL. FINAL DETAIL TO BE CONFIRMED AT CC STAGE.
- RETAINING WALL DETAILS AND LEVELS TO BE STRUCTURALLY DESIGNED AND CONFIRMED AT CC STAGE.
- SITE CONDITIONS, COMPACTION REQUIREMENTS, TEMPORARY BATTERS AND FILLING TO BE IN ACCORDANCE WITH GEOTECHNICAL ENGINEERS REQUIREMENTS.

CONCEPTUAL EARTHWORKS VOLUMES

STRIP AREA OF WORKS AND STOCKPILE FOR RE-USE IN ACCORDANCE WITH GEOTECH ENGINEERS RECOMMENDATIONS.

CONCEPTUAL BULK EARTHWORKS VOLUMES (m³)

TOTAL SITE CUT VOLUME	= 42,710m³ NOM.
TOTAL SITE FILL VOLUME	= 22,480m³ NOM.

NOTE:
THIS IS A PLANNING DRAWING ONLY, FOR THE PURPOSE OF CONCEPTUAL DESIGN AND/OR PLANNING. FURTHER DETAILED ENGINEERING DESIGN INCLUDING SPECIFICATIONS, SIZING AND STORMWATER INVERTS TO BE PROVIDED PRIOR TO BUILDING RULES ASSESSMENT AND CONSTRUCTION.

