



PROPOSED RETIREMENT VILLAGE
FOR: LIVING CHOICE AUSTRALIA
330 GALSTON ROAD,
GALSTON NSW

DRAWING REGISTER - CIVIL	
SHEET 001	COVER SHEET, SITE LOCATION AND DRAWING REGISTER
SHEET 010	STORMWATER PLAN
SHEET 011	STORMWATER DETAILS
SHEET 020	ROADS PLAN
SHEET 021 - 023	ROADS LONGSECTIONS
SHEET 027	TYPICAL ROAD CROSS SECTIONS
SHEET 030 - 031	SEWER PLAN AND DETAILS
SHEET 040	RETAINING WALL PLAN
SHEET 041	RETAINING WALL DETAILS 1
SHEET 042	RETAINING WALL DETAILS 2
SHEET 050	VEHICLE SWEPT PATH PLAN 1
SHEET 051	VEHICLE SWEPT PATH PLAN 2
SHEET 060	SEDIMENT PLAN AND DETAILS
SHEET 080	BULK EARTHWORKS PLAN AND DETAILS



LOCALITY PLAN
NTS

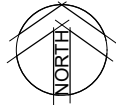
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3	15/04/21	PRELIMINARY	IC	VC
2	08/03/21	PRELIMINARY	IC	VC
1	30/04/20	PRELIMINARY	IC	VC

DESIGNED: VC	DATUM: AHD	A1
DRAWN: IC	COORDINATE SYSTEM:	
CHECKED: VC	APPROVED:	
RECOMMENDED:	PROJECT MANAGER	DATE
	PROJECT DIRECTOR	DATE

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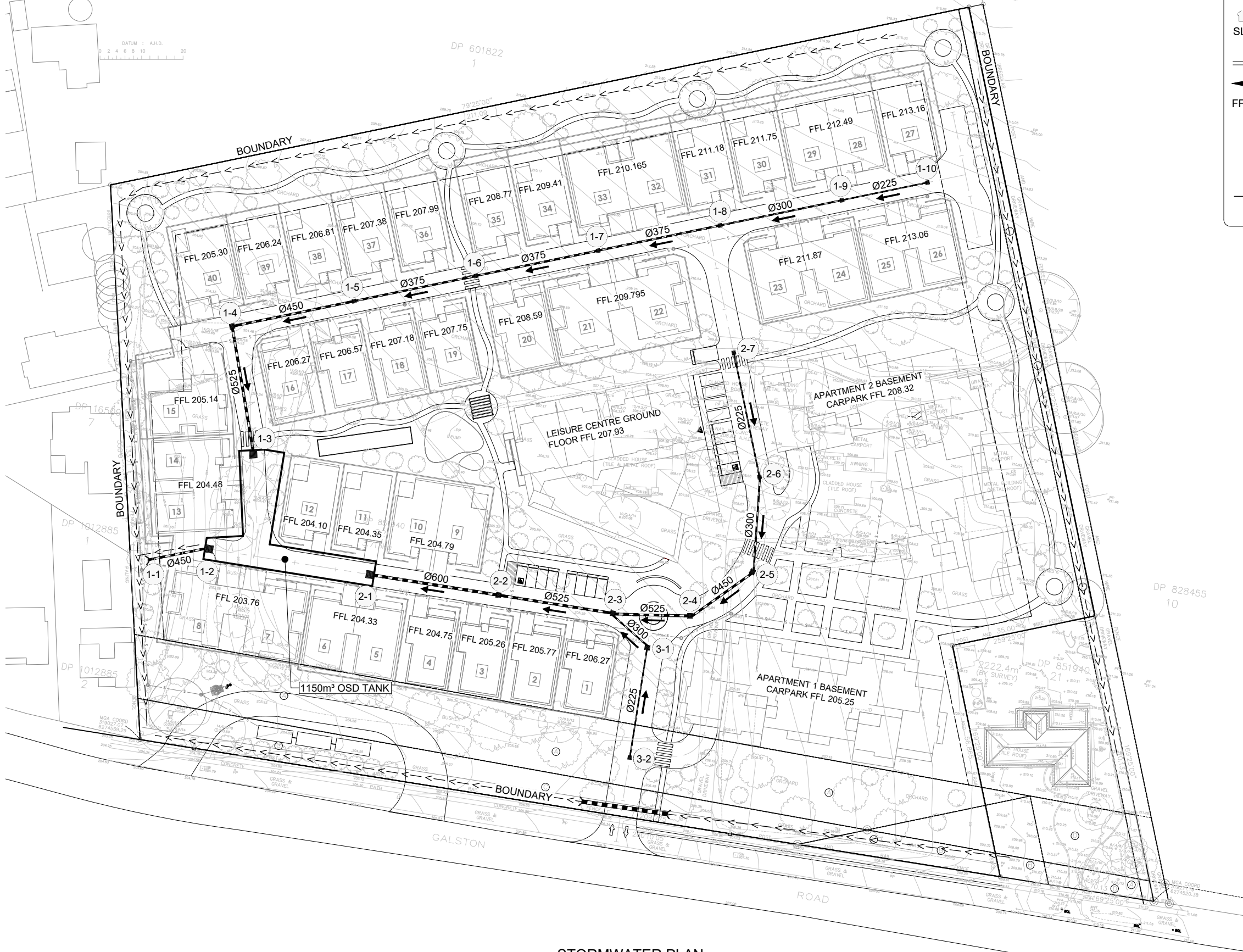
LIVING CHOICE AUSTRALIA
PROPOSED RETIREMENT VILLAGE
330 GALSTON ROAD, GALSTON NSW
LOT 22 DP851940
COVER SHEET

DRAWING STATUS:
PRELIMINARY
NOT TO BE USED FOR CONSTRUCTION PURPOSES
DRAWING NUMBER: 16018-CI-001
REV 3



DATUM: A.H.D.
0 2 4 6 8 10 20

DP 601822
1



STORMWATER PLAN
SCALE 1:500 (AT A1)

LEGEND	
	PROPOSED STORMWATER PIT WITH LABEL AND SURFACE LEVEL. FOR INVERT LEVEL REFER SCHEDULE ON THIS DRAWING
	PROPOSED STORMWATER PIPE AND SIZE
	DIRECTION OF OVERLAND FLOW PATH
	PROPOSED FINISHED FLOOR LEVEL
	PROPOSED GRADING
	KO KERB ONLY
	K&G KERB AND GUTTER
	PROVIDE SWALE. REFER TO DETAIL ON SHEET 16018-CI-011.

REV	DATE	REVISIONS	DRN	CHK
3	15/04/21	PRELIMINARY	IC	VC
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1	30/04/20	PRELIMINARY	IC	VC

0 10 20 30 40 50m
SCALE 1:500
@A1

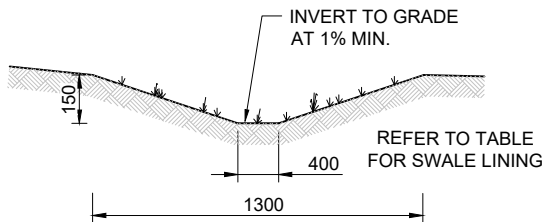
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LIVING CHOICE AUSTRALIA
PROPOSED RETIREMENT VILLAGE
330 GALSTON ROAD, GALSTON NSW
LOT 22 DP851940
STORMWATER PLAN

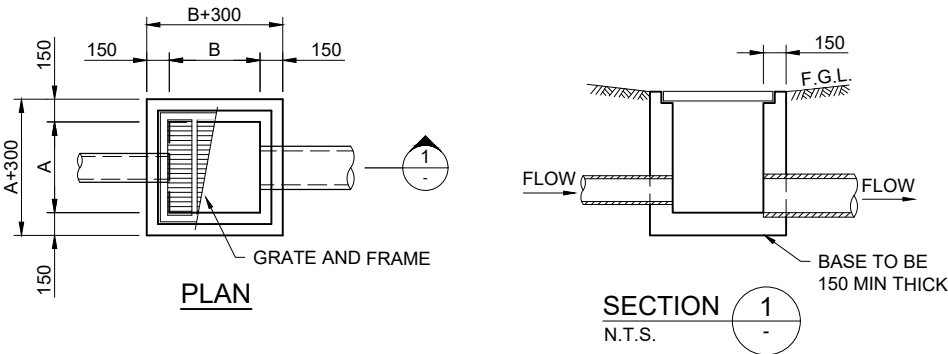
DRAWING STATUS: PRELIMINARY NOT TO BE USED FOR CONSTRUCTION PURPOSES	REV
DRAWING NUMBER: 16018-CI-010	3

0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150mm A1 ON ORIGINAL



SWALE TYPE 1
GRASSED SWALE DETAIL
NOT TO SCALE

DRAINAGE LININGS SCHEDULE			
DRAIN TYPE	GRADE	LINED	LINING
SWALE DRAIN	< 0.5%	YES	CONCRETE / SHOTCRETE
	0.5 TO 5%	NO	DRAIN TO BE TOPSOILED, SEEDED & JUTE MESH FM FIXED OVER
	5% TO 12%	YES	ENKAMAT
	> 12%	YES	CONCRETE / SHOTCRETE



CAST-IN-SITU CONCRETE
STORMWATER PIT DETAIL
PRECAST CONCRETE MAY BE
SUBSTITUTED SUBJECT TO APPROVAL

PIT DEPTH	PIT SIZE
≤ 600	'A' x 'B'
> 600 ≤ 900	450 x 450
> 900 ≤ 1200	600 x 600
> 1200	600 x 900
	900 x 900

PROVIDE STEP IRONS IN ALL PITS
EXCEEDING 1200mm DEPTH
PIT GRATING
ROADWAYS..... HEAVY DUTY U.N.O.
CAR PARKING MEDIUM DUTY U.N.O.
LANDSCAPING..... LIGHT DUTY U.N.O.

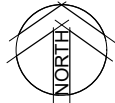
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LOT 22 DP851940
STORMWATER DETAILS

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REV: 2



ROADS PLAN
1:500 (AT A1)



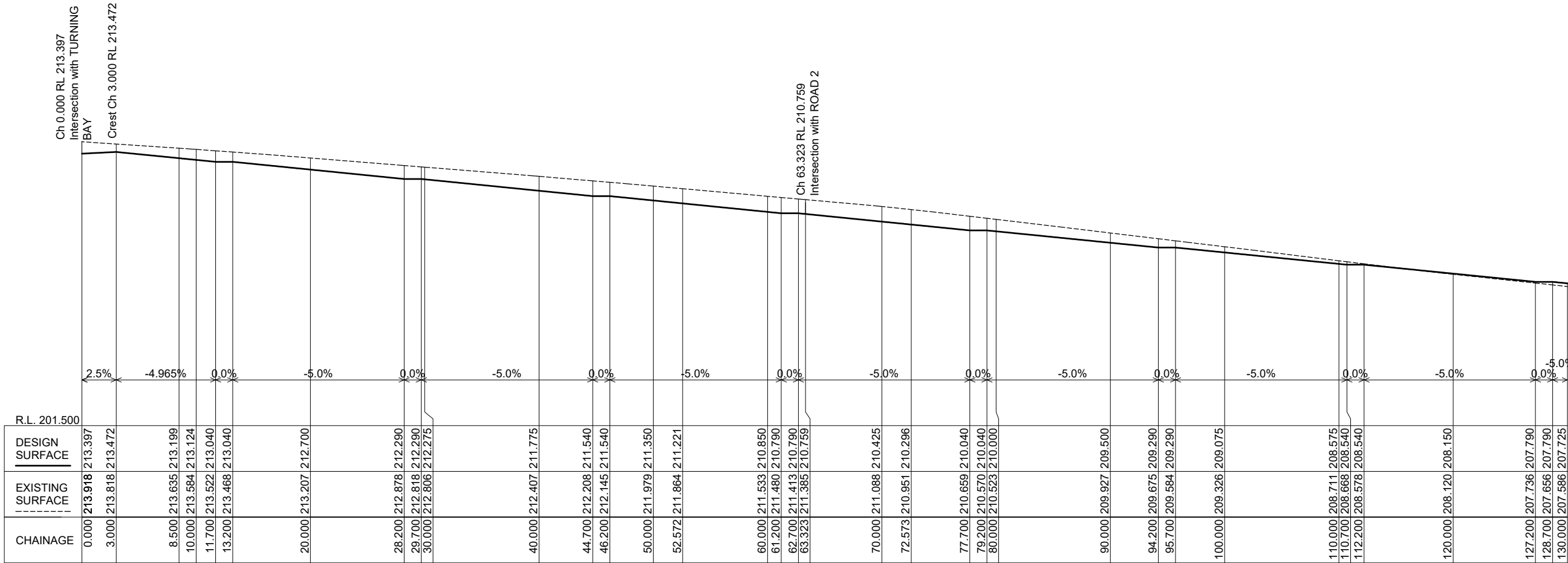
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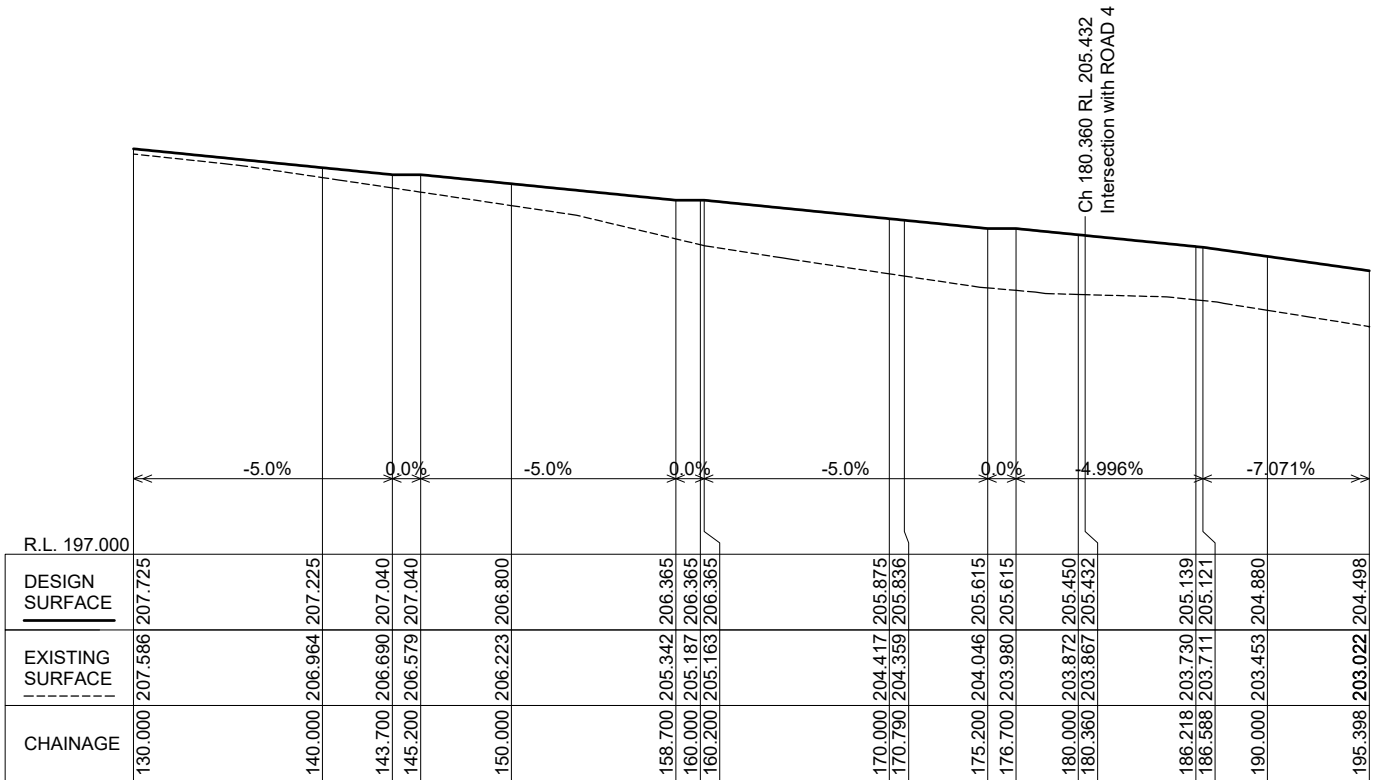
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PROPOSED RETIREMENT VILLAGE
330 GALSTON ROAD, GALSTON NSW
ROADS PLAN

DRAWING STATUS: PRELIMINARY	REV
NOT TO BE USED FOR CONSTRUCTION PURPOSES	
DRAWING NUMBER: 16018-CI-020	3

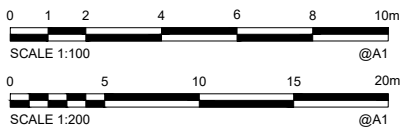


LONGITUDINAL SECTION
ROAD 1 Ch 0.000 to Ch 130.000
SCALES: HORIZONTAL 1:200 VERTICAL 1:100
ROAD 1



LONGITUDINAL SECTION
ROAD 1 Ch 130.000 to Ch 195.398
SCALES: HORIZONTAL 1:200 VERTICAL 1:100
ROAD 1

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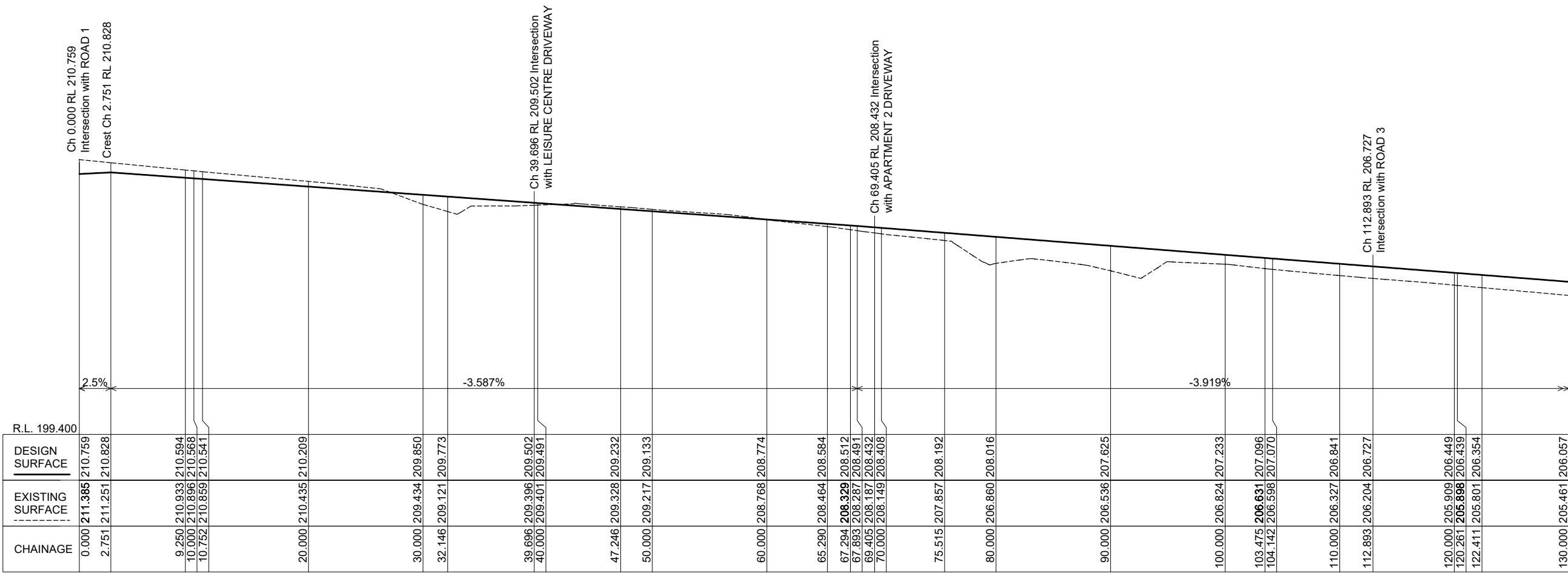


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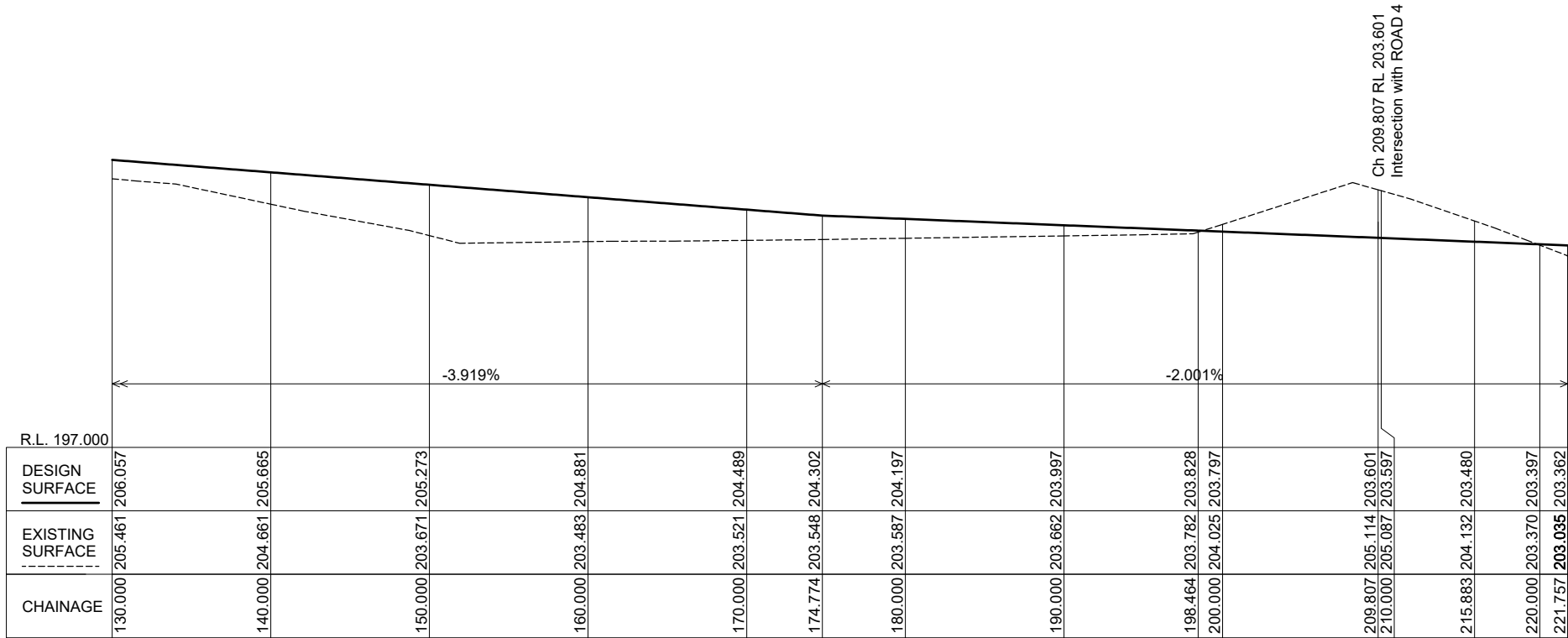


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LOT 22 DP851940
ROAD LONGSECTIONS - SHEET 1

DRAWING STATUS: PRELIMINARY	NOT TO BE USED FOR CONSTRUCTION PURPOSES
DRAWING NUMBER: 16018-CI-021	REV: 2

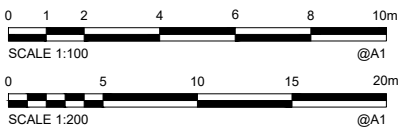


LONGITUDINAL SECTION
ROAD 2 Ch 0.000 to Ch 130.000
SCALES: HORIZONTAL 1:200 VERTICAL 1:100
ROAD 2



LONGITUDINAL SECTION
ROAD 2 Ch 130.000 to Ch 221.757
SCALES: HORIZONTAL 1:200 VERTICAL 1:100
ROAD 2

REV	DATE	REVISIONS	DRN	CHK
2	08/03/21	PRELIMINARY	IC	VC
1	30/04/20	PRELIMINARY	IC	VC

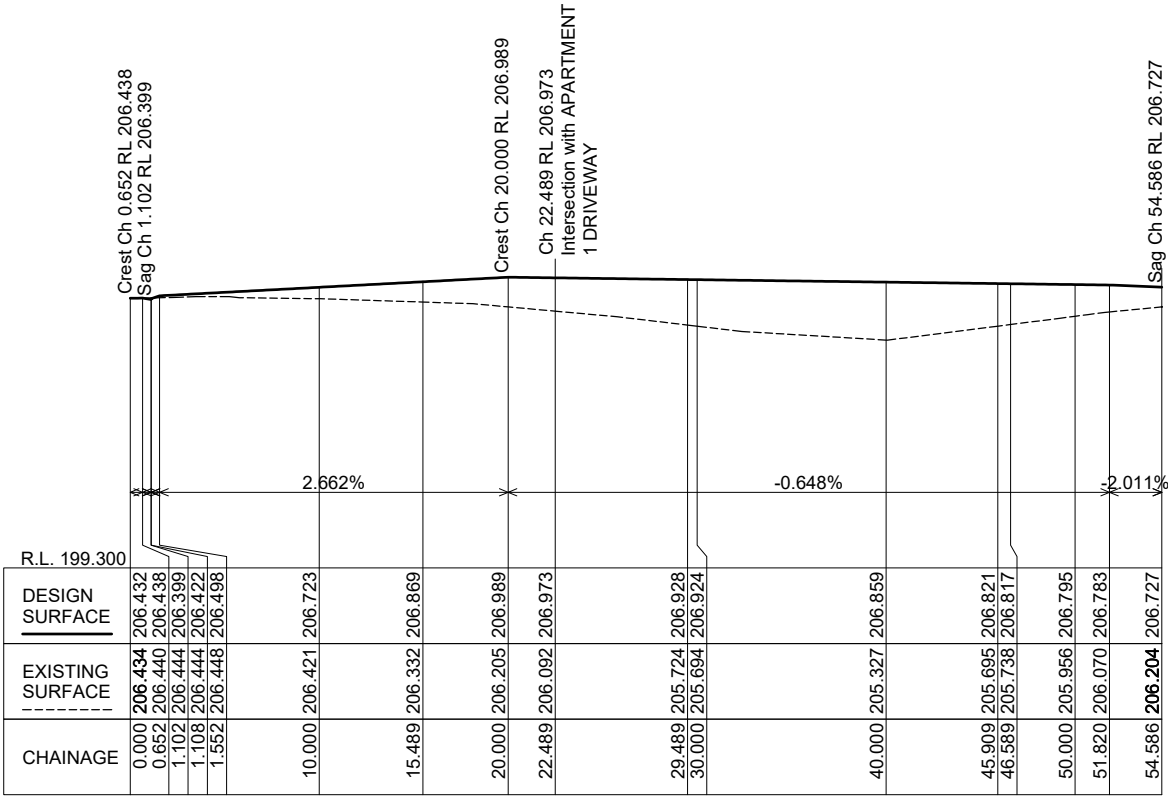


DESIGNED: VC	DATUM: AHD	A1
DRAWN: IC	COORDINATE SYSTEM:	
CHECKED: VC	APPROVED:	
RECOMMENDED:	PROJECT DIRECTOR	DATE
PROJECT MANAGER	DATE	

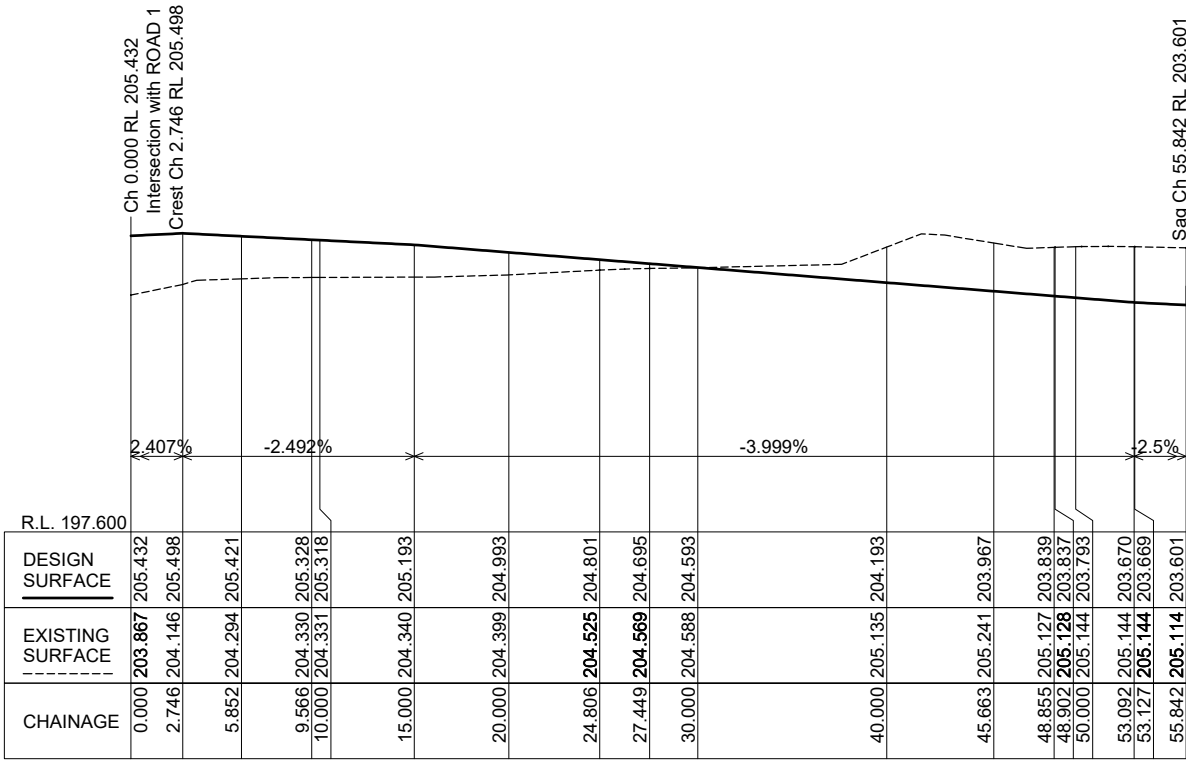
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LOT 22 DP851940
ROAD LONGSECTIONS - SHEET 2

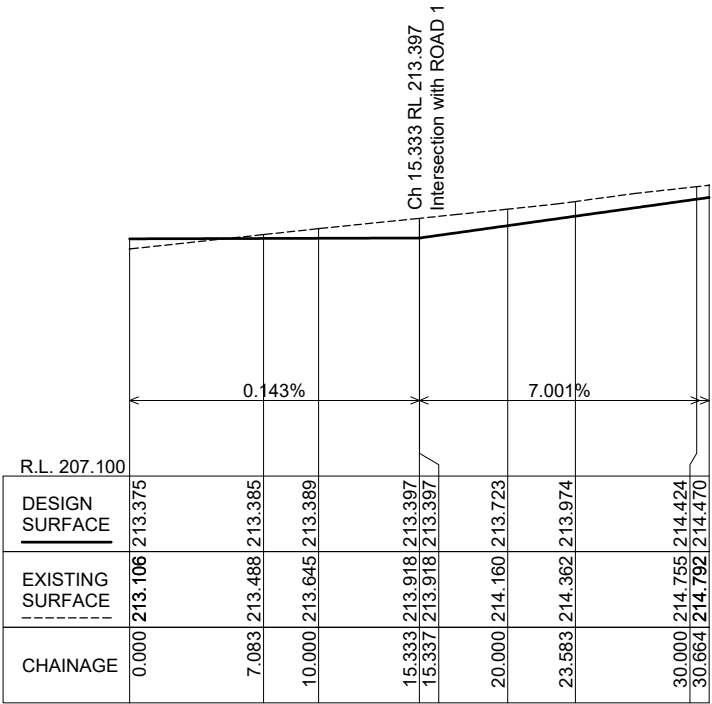
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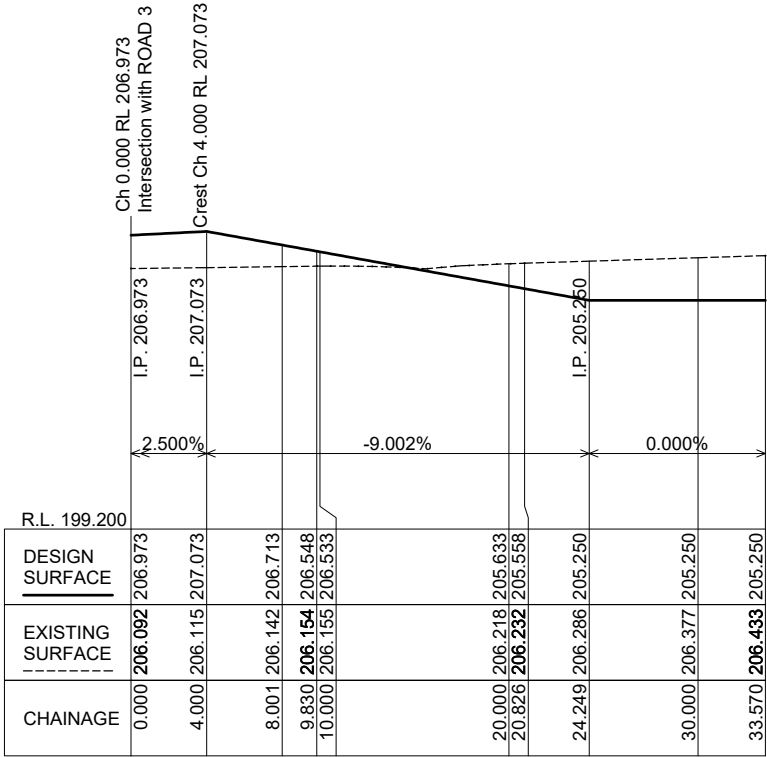
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ROAD 3 Ch 0.000 to Ch 54.586
SCALES: HORIZONTAL 1:200 VERTICAL 1:100
ROAD 3



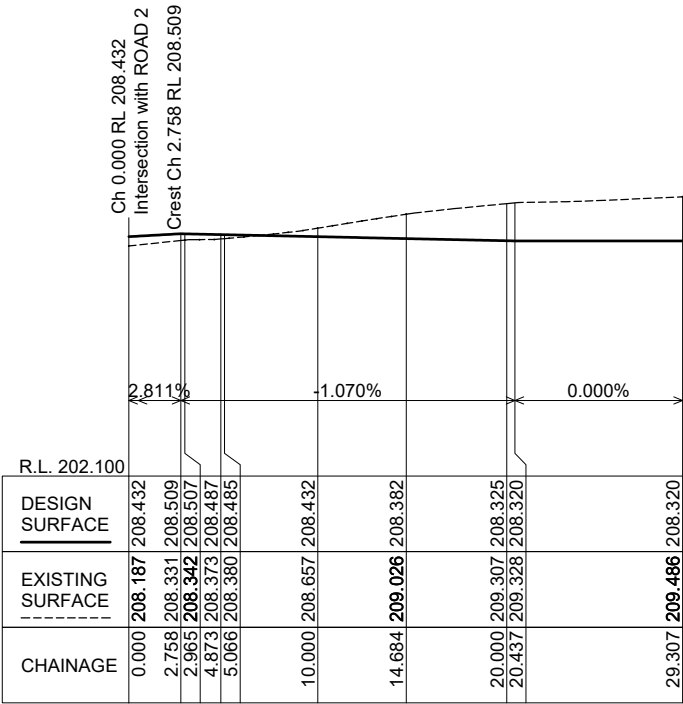
LONGITUDINAL SECTION
ROAD 4 Ch 0.000 to Ch 55.842
SCALES: HORIZONTAL 1:200 VERTICAL 1:100
ROAD 4



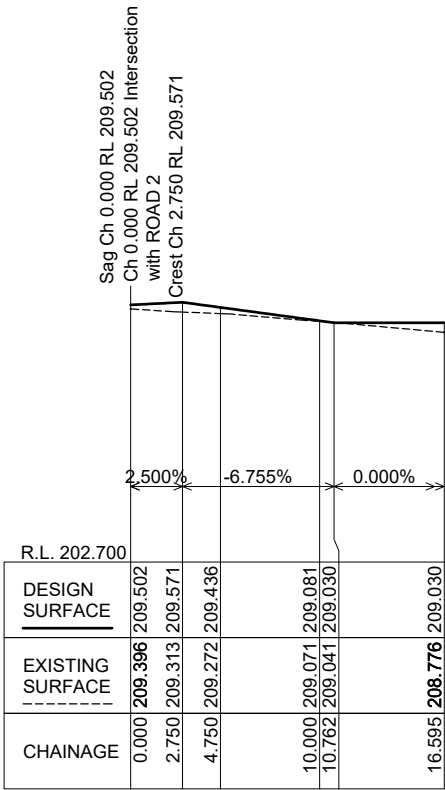
LONGITUDINAL SECTION
TURNING BAY Ch 0.000 to Ch 30.664
SCALES: HORIZONTAL 1:200 VERTICAL 1:100
TURNING BAY



LONGITUDINAL SECTION
APARTMENT 1 DRIVEWAY Ch 0.000 to Ch 33.570
SCALES: HORIZONTAL 1:200 VERTICAL 1:100
APARTMENT 1 DRIVEWAY



LONGITUDINAL SECTION
APARTMENT 2 DRIVEWAY Ch 0.000 to Ch 29.307
SCALES: HORIZONTAL 1:200 VERTICAL 1:100
APARTMENT 2 DRIVEWAY



LONGITUDINAL SECTION
LEISURE CENTRE DRIVEWAY Ch 0.000 to Ch 16.595
SCALES: HORIZONTAL 1:200 VERTICAL 1:100
LEISURE CENTRE DRIVEWAY

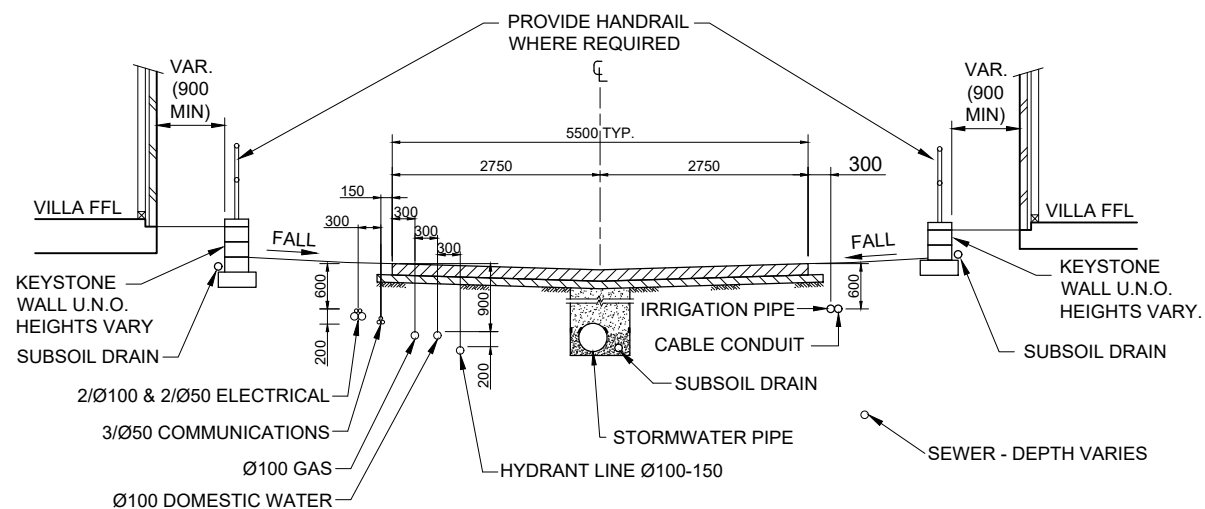


DESIGNED: VC	DATUM: AHD
DRAWN: IC	A1
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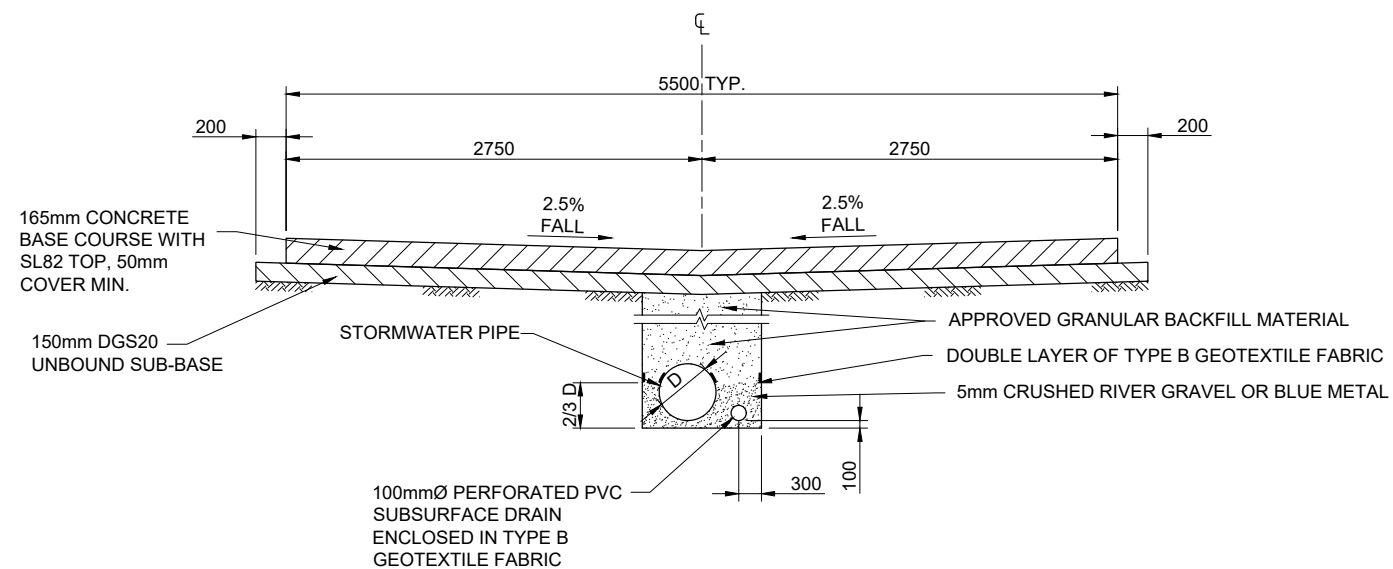


LIVING CHOICE AUSTRALIA
PROPOSED RETIREMENT VILLAGE
330 GALSTON ROAD, GALSTON NSW
LOT 22 DP851940
ROAD LONGSECTIONS - SHEET 3

DRAWING STATUS: PRELIMINARY	NOT TO BE USED FOR CONSTRUCTION PURPOSES
DRAWING NUMBER: 16018-CI-023	REV: 2



SERVICES ALIGNMENT INTERNAL
ROAD CROSS SECTION
NTS



INTERNAL ROAD CROSS
SECTION
NTS

[illegible]

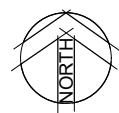
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CHECKED: VC	COORDINATE SYSTEM:		
RECOMMENDED:	APPROVED:		
PROJECT MANAGER DATE:	PROJECT DIRECTOR DATE:		

DATUM:	AHD	A1
COORDINATE SYSTEM:		
APPROVED:		
PROJECT DIRECTOR		DATE



LIVING CHOICE AUSTRALIA PROPOSED RETIREMENT VILLAGE 330 GALSTON ROAD, GALSTON NSW LOT 22 DP851940 TYPICAL INTERNAL ROAD CROSS SECTION

DRAWING STATUS:	
PRELIMINARY	
NOT TO BE USED FOR CONSTRUCTION PURPOSES	
DRAWING NUMBER:	REVISION:
16018-CI-027	2



NOTE: ALL PIPES TO BE PVC-U SN8.

LEGEND

10-1
○

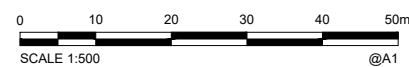
PROPOSED SEWER MANHOLE

Ø150

PROPOSED SEWER PIPE AND SIZE

SEWER PLAN

1:500 (AT A1)

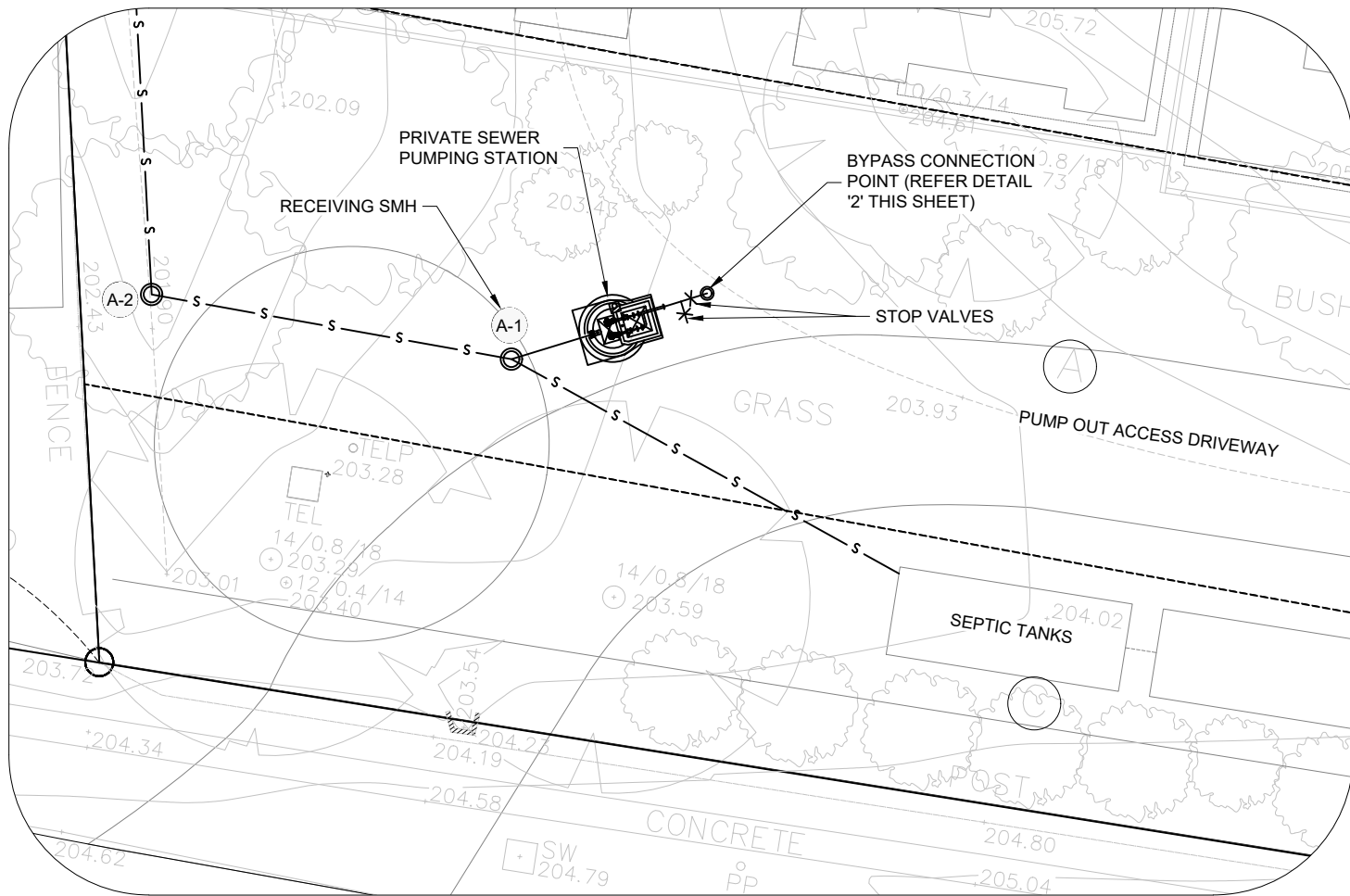
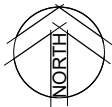


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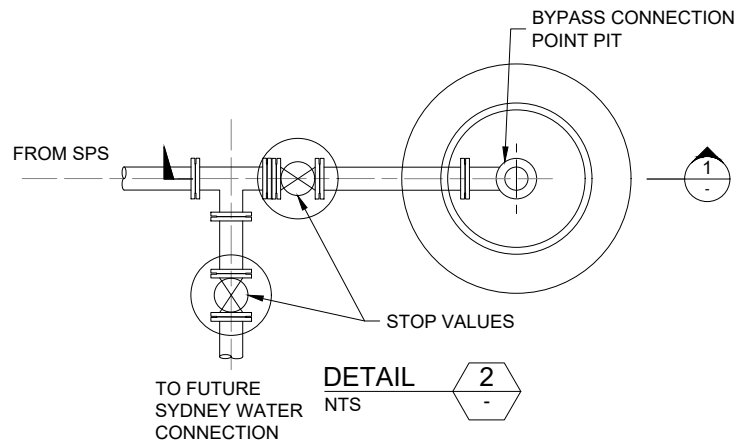


LIVING CHOICE AUSTRALIA
PROPOSED RETIREMENT VILLAGE
330 GALSTON ROAD, GALSTON NSW
LOT 22 DP851940
SEWER PLAN

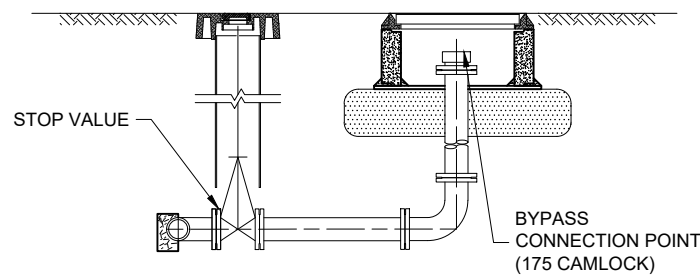
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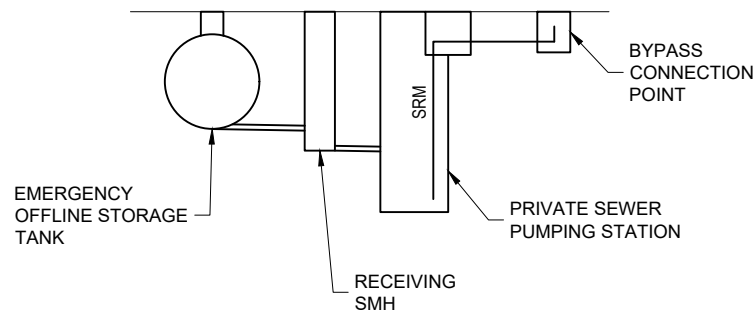
DETAIL 1
SCALE 1:125 030



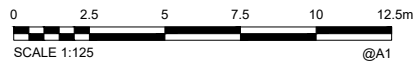
DETAIL 2
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SECTION 1
NTS



TYPICAL SECTION
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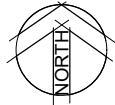


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LOT 22 DP851940
SEWER DETAIL

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DATUM: A.H.D.
0 2 4 6 8 10 20



RETAINING WALL PLAN
1:500 (AT A1)

1.0m - PROPOSED RETAINING WALL AND HEIGHT

0 10 20 30 40 50m
SCALE 1:500 @A1

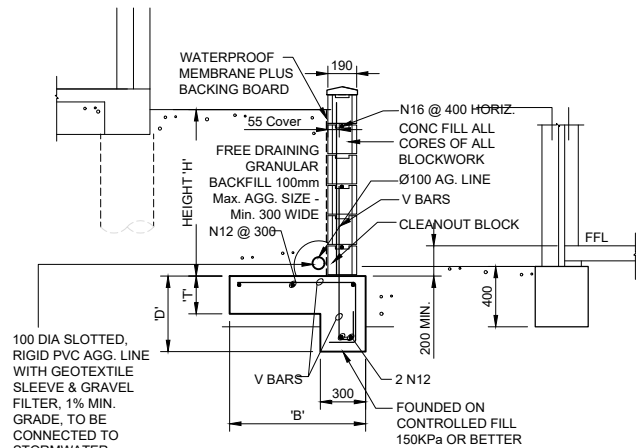
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PROPOSED RETIREMENT VILLAGE
330 GALSTON ROAD, GALSTON NSW
RETAINING WALL PLAN

DRAWING STATUS: PRELIMINARY	REV
NOT TO BE USED FOR CONSTRUCTION PURPOSES	
DRAWING NUMBER: 16018-CI-040	3

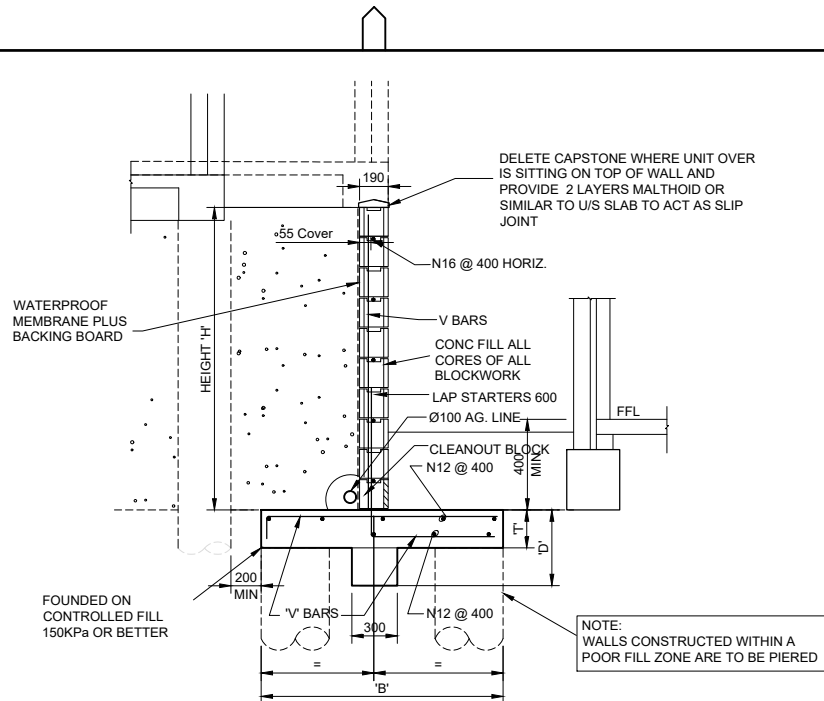
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TYPE 1 RETAINING WALL

HEIGHT 'H'	'B'	'T'	'D'	'V' BARS
800	700	250	400	N12 @ 400
1200	900	300	500	N12 @ 400

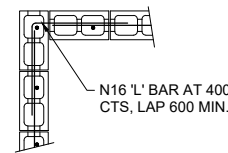
PROVIDE VERTICAL CONTROL JOINTS @ 10m Max. Ctr.s.
& WITHIN 5m OF CORNERS



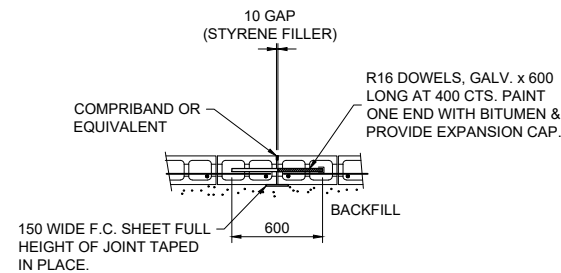
TYPE 2 RETAINING WALL

HEIGHT 'H'	'B'	'T'	'D'	'V' BARS
1600	1400	300	600	N16 @ 400
2100	1700	300	600	N20 @ 400

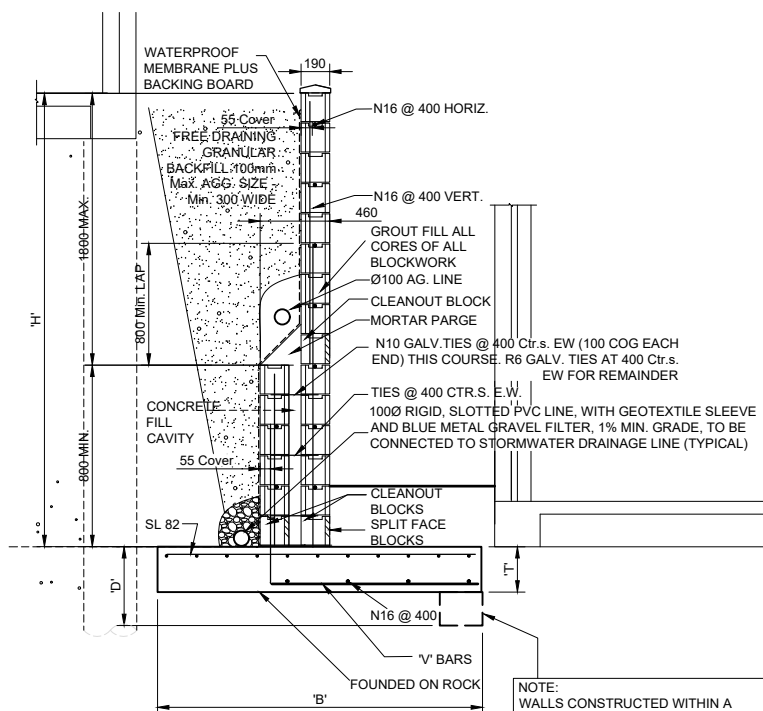
PROVIDE VERTICAL CONTROL JOINTS @ 10m Max. Ctr.s.
& WITHIN 5m OF CORNERS



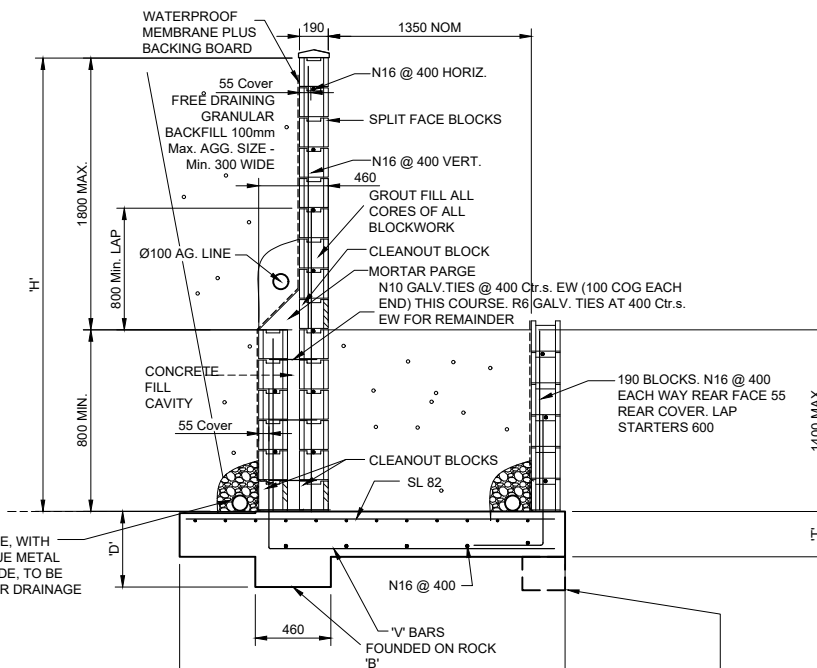
BLOCKWORK CORNER
DETAIL



BLOCKWORK DOWEL JOINT
PROVIDE JOINTS AT 10m MAX CTS.
LAYOUT TO ARCHITECTS SPECIFICATIONS



TYPE 3 RETAINING WALL



TYPE 3 RETAINING WALL

RETAINING WALL 'RW3'

H	B	T	D	HEIGHT OF 190 BLOCK	HEIGHT OF 460 BLOCK	V BARS
1000	900 min	250	400	1000	-	N12 @ 400
1400	1200 min	250	500	1400	-	N16 @ 400
1800	1600 min	250	500	1800	-	N16 @ 400
2200	1900 min	350	600	1400	800	N16 @ 400
2600	2200 min	350	650	1800	800	N16 @ 200
3000	2700 min	350	700	1800	1200	N16 @ 200
3400	3000 min	350	800	1800	1600	N20 @ 200

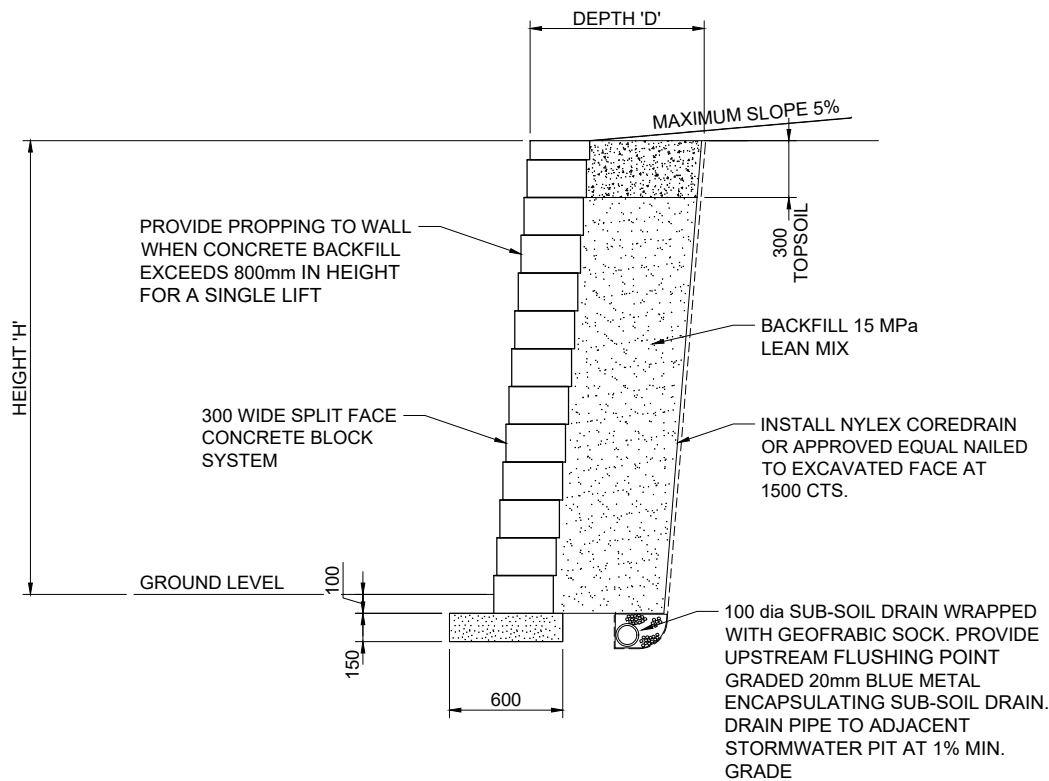
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1	30/04/20	PRELIMINARY ISSUE	IC	VC

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330 GALSTON ROAD, GALSTON NSW
LOT 22 DP851940
RETAINING WALL DETAILS - SHEET 1

DRAWING STATUS: PRELIMINARY NOT TO BE USED FOR CONSTRUCTION PURPOSES	REV
DRAWING NUMBER: 16018-CI-041	2



TYPICAL SECTION THROUGH RW5
SCALE 1:20

TABLE 1	
WALL HEIGHT 'H'	'D'
1000	450
1200	500
1600	700
2000	850
2400	1000

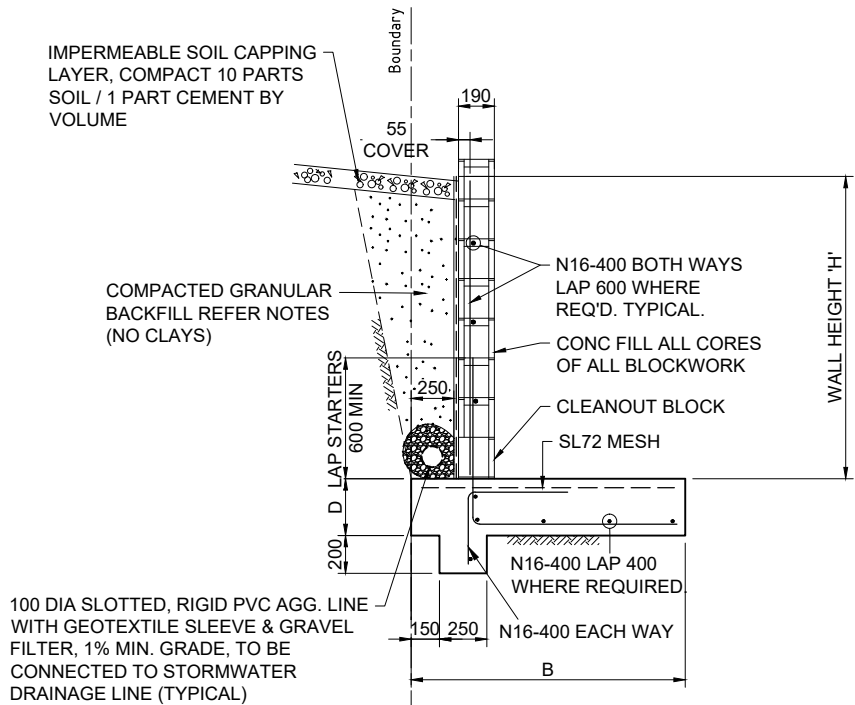
CONSTRUCTION NOTES

STEP 1
FOR WALLS LESS THAN 900mm HIGH, EXCAVATE A TRENCH 600mm WIDE AND DEEP ENOUGH TO ALLOW A 150mm LEVELLING BASE, PLUS 25mm FOR EACH COURSE. SPREAD COARSE SAND OR 12 - 20mm GRAVEL FOR LEVELLING BASE AND COMPACT UNTIL NO FURTHER SETTLEMENT WILL OCCUR.

STEP 2
START AT LOW END OF WALL. LAY BLOCKS TO MANUFACTURERS SETOUT INTERLOCKING BLOCKS

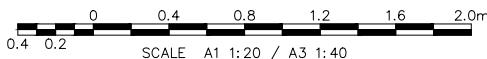
STEP 3
BACKFILL THE WALL WITH 15 MPa LEAN MIX. THE VERTICAL HEIGHT OF ANY POUR OF NO LEAN MIX CONCRETE IS LIMITED TO 800mm. FOR WALLS GREATER THAN 800mm IN HEIGHT THE BACKFILL MAY BE PLACED BY CONSECUTIVE POURS EACH 800mm IN HEIGHT. EACH POUR MUST BE ALLOWED TO HARDEN PRIOR TO POURING THE NEXT LIFT. ALTERNATIVELY THE WALL MAY BE PROPPED. STABILITY OF WALL IS TO BE MAINTAINED AT ALL TIMES BY CONTRACTOR BY PROPPING AS NECESSARY

STEP 4
AY CAPS AS FOR FULL UNITS. BACKFILL AND COMPACT TO FINISH GRADE. IN AREAS ACCESSIBLE TO PUBLIC VANDALISM, LAY CAPS USING AN EPOXY CEMENT SUCH AS FULAPOXY.



RETAINING WALL 'RW6'		
HEIGHT 'H'	BASE 'B'	BASE 'D'
1000	800	200
1400	1200	250
1800 MAX	1400	250

NOTE:
PLACEMENT OF STARTERS AND MAIN VERTICAL WALL REINFORCEMENT IS CRITICAL. FAILURE TO ADHERE TO THE SPECIFICATIONS AND DIMENSIONS WILL LEAD TO RECTIFICATION BEING REQUIRED PRIOR TO CORE FILLING. SAID RECTIFICATION MAY REQUIRE THE PARTIAL OR COMPLETE DEMOLITION AND RECONSTRUCTION OF THE WALL.

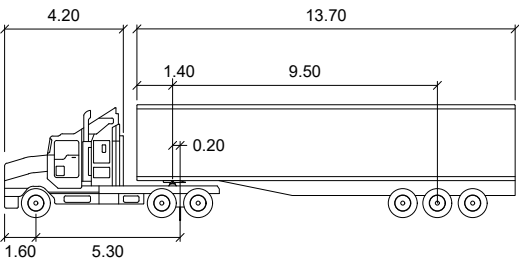
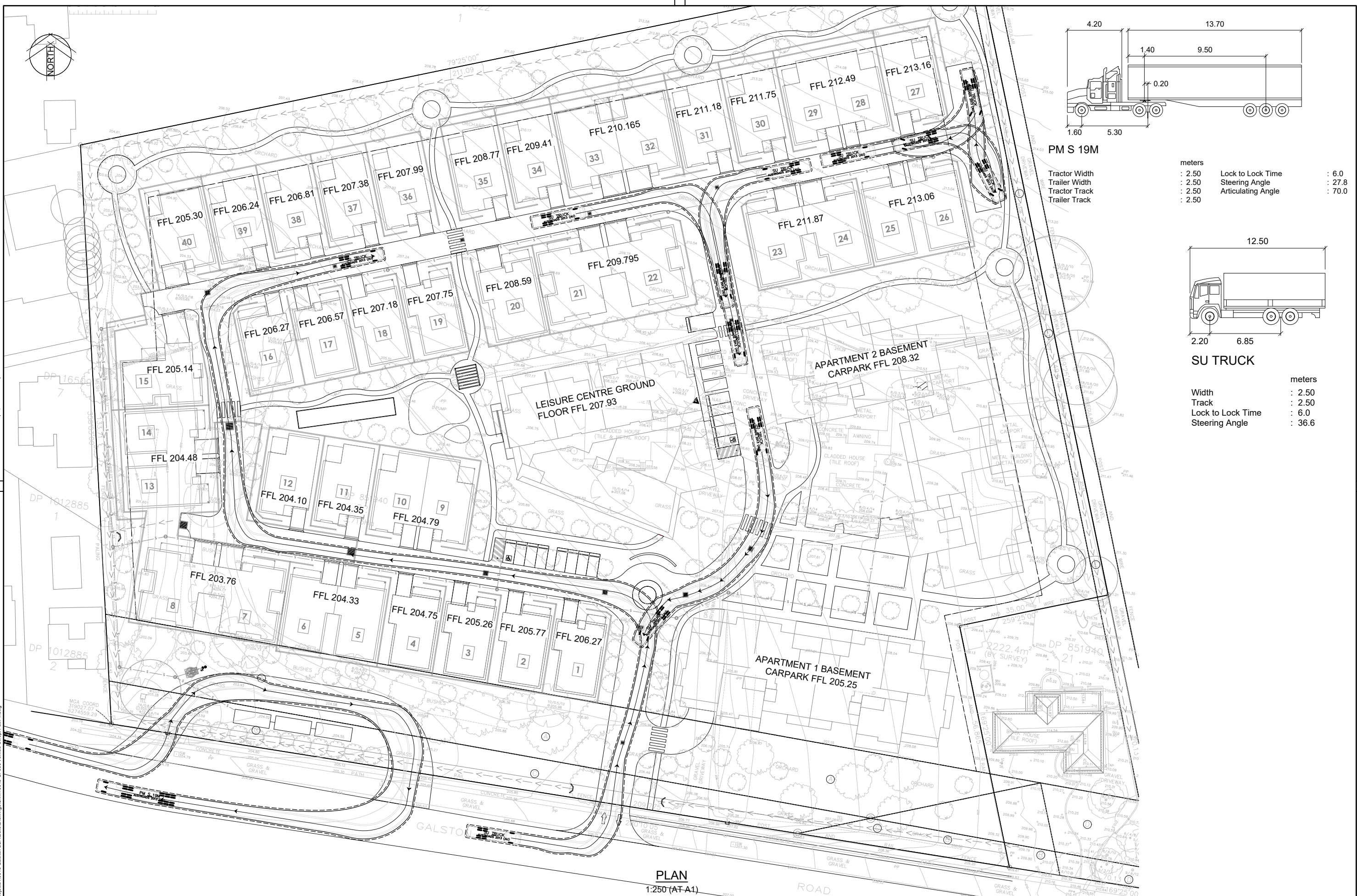


DESIGNED: VC	DATUM: AHD	A1
DRAWN: IC	COORDINATE SYSTEM:	
CHECKED: VC	APPROVED:	
RECOMMENDED:	PROJECT MANAGER	PROJECT DIRECTOR
	DATE	DATE



LIVING CHOICE AUSTRALIA
PROPOSED RETIREMENT VILLAGE
330 GALSTON ROAD, GALSTON NSW
LOT 22 DP851940
RETAINING WALL DETAILS - SHEET 2

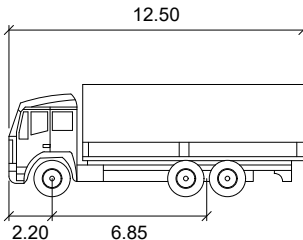
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PM S 19M

Tractor Width
Trailer Width
Tractor Track
Trailer Track

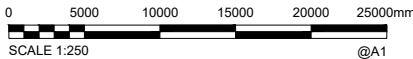
meters		
: 2.50	Lock to Lock Time	: 6.0
: 2.50	Steering Angle	: 27.8
: 2.50	Articulating Angle	: 70.0
: 2.50		



SU TRUCK

	meters
Width	: 2.50
Track	: 2.50
Lock to Lock Time	: 6.0
Steering Angle	: 36.6

PLAN
1:250 (AT A1)

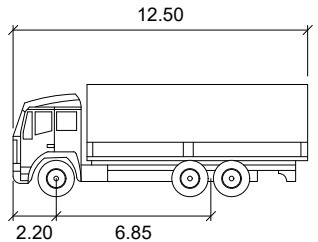
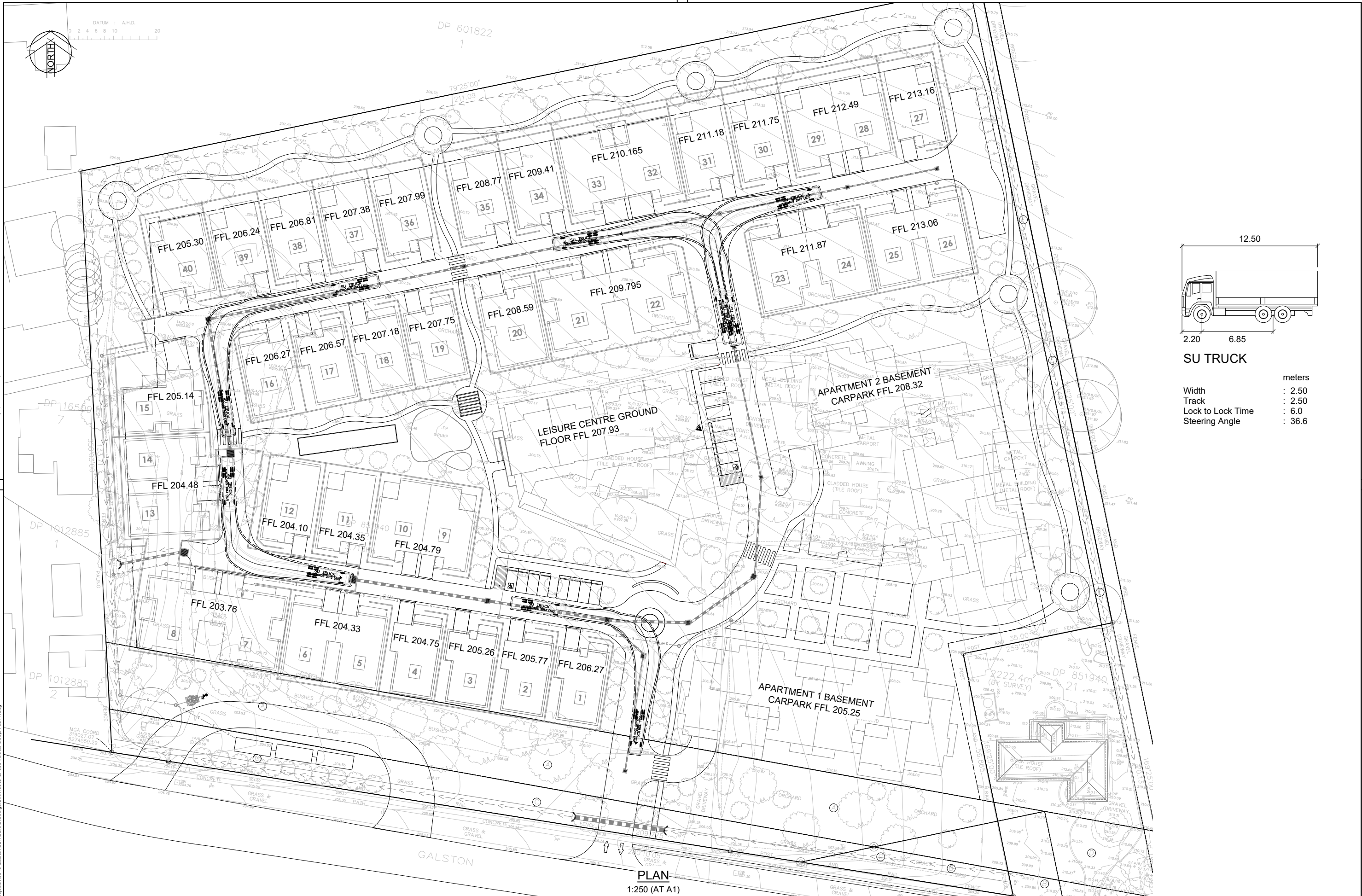


DESIGNED: VC	DATUM: AHD	A1
DRAWN: IC	COORDINATE SYSTEM:	
CHECKED: VC	APPROVED:	
RECOMMENDED:	PROJECT MANAGER: DATE	PROJECT DIRECTOR: DATE

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CUBO CONSULTING PTY LTD
ABN: 46 610 277 462
Suite 6, 220 The Entrance Road, Erina NSW
Phone: (02) 4326 0990 Email: admin@cubo.net.au

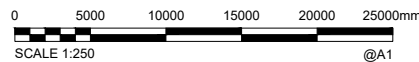
LIVING CHOICE AUSTRALIA
PROPOSED RETIREMENT VILLAGE
330 GALSTON ROAD, GALSTON NSW
VEHICLE SWEEP PATH - 1

DRAWING STATUS: PRELIMINARY	REV
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DRAWING NUMBER: 16018-CI-050	3



SU TRUCK

	metres
Width	: 2.50
Track	: 2.50
Lock to Lock Time	: 6.0
Steering Angle	: 36.6



DESIGNED: VC	DATUM: AHD	A1
DRAWN: IC	COORDINATE SYSTEM:	
CHECKED: VC	APPROVED:	
RECOMMENDED:	PROJECT MANAGER: DATE	PROJECT DIRECTOR: DATE

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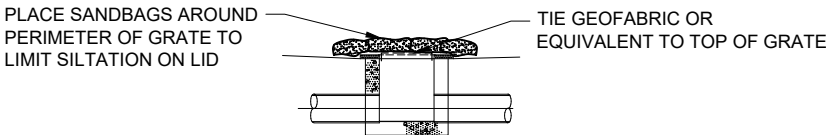
LIVING CHOICE AUSTRALIA
PROPOSED RETIREMENT VILLAGE
330 GALSTON ROAD, GALSTON NSW
VEHICLE SWEEP PATH - 1

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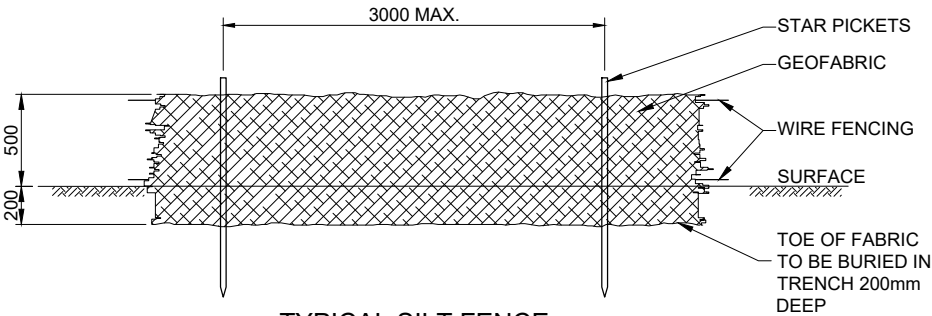
SEDIMENT CONTROL SITE PLAN
SCALE 1:1000 (AT A1)

LEGEND	
	TEMPORARY SURFACE INLET SEDIMENT TRAP OR GROSS POLLUTANT TRAP TO BE PROVIDED
	SILT FENCE
	TEMPORARY CONSTRUCTION VEHICLE EXIT
	TEMPORARY STOCKPILE OF TOPSOIL SURROUNDED WITH SILT FENCE

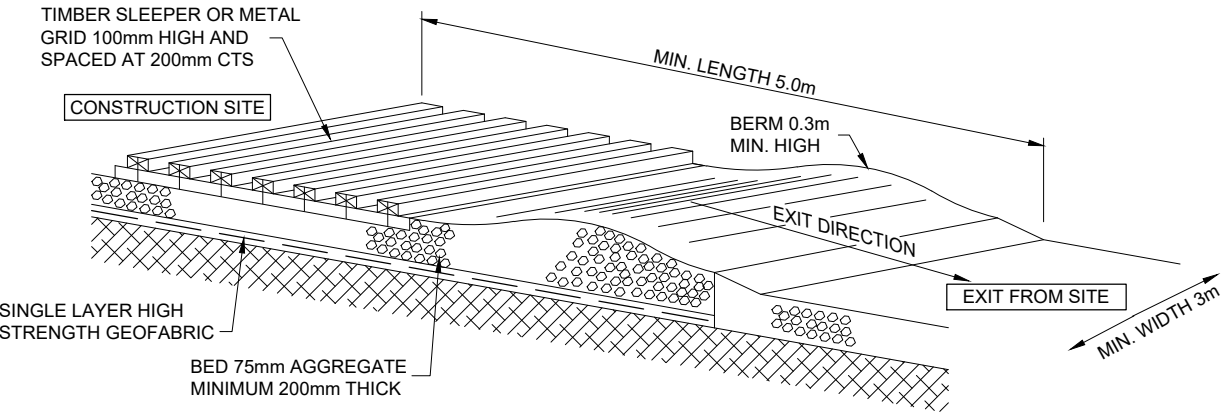


WHEN USED AS A GROSS POLLUTANT TRAP
STRUCTURE SHALL BE REGULARLY
DESILTED

TEMPORARY SURFACE INLET
SEDIMENT TRAP OR GROSS
POLLUTANT TRAP

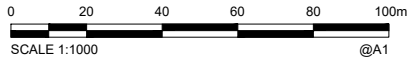


TYPICAL SILT FENCE
DETAIL
NTS



TEMPORARY CONSTRUCTION VEHICLE EXIT
NTS

REV	DATE	REVISIONS	DRN	CHK
3	15/04/21	PRELIMINARY	IC	VC
2	08/03/21	PRELIMINARY	IC	VC
1	30/04/20	PRELIMINARY	IC	VC

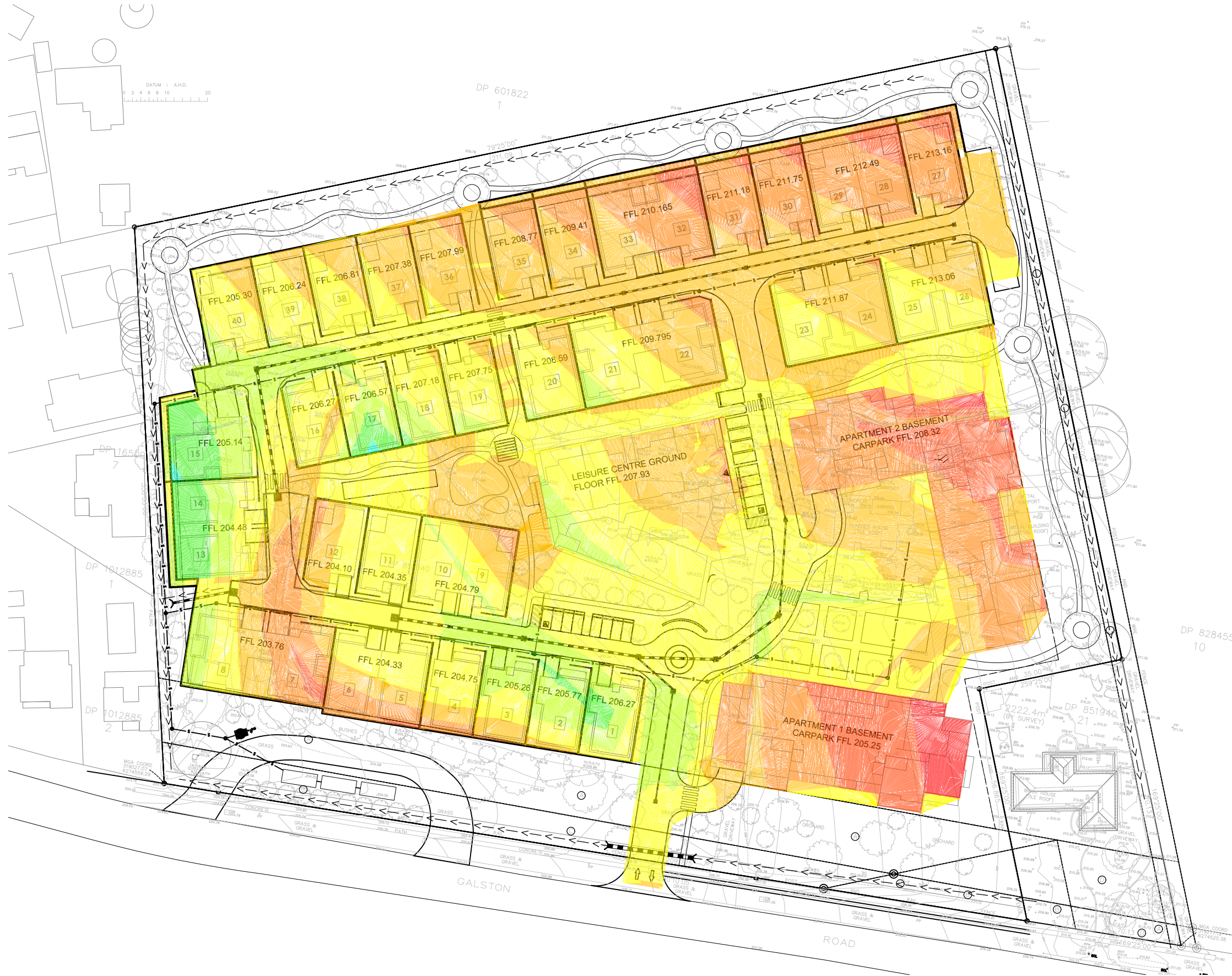
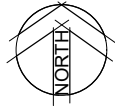


DESIGNED: VC	DATUM: AHD	A1
DRAWN: IC	COORDINATE SYSTEM:	
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RECOMMENDED:	PROJECT MANAGER	DATE
	PROJECT DIRECTOR	DATE

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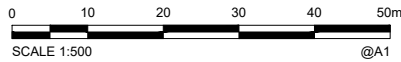
LIVING CHOICE AUSTRALIA
PROPOSED RETIREMENT VILLAGE
330 GALSTON ROAD, GALSTON NSW
SEDIMENT AND EROSION CONTROL PLAN & DETAILS

DRAWING STATUS: PRELIMINARY NOT TO BE USED FOR CONSTRUCTION PURPOSES	REV
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Height Table for Earthworks	
Elevation (m)	Colour
CUT -3.75 to -3.00	Red
CUT -3.00 to -2.00	Orange
CUT -2.00 to -1.00	Yellow
CUT -1.00 to 0.00	Light Green
FILL 0.00 to 1.00	Green
FILL 1.00 to 2.00	Dark Green
FILL 2.00 to 3.00	Light Blue
FILL 3.00 to 3.20	Dark Blue

BULK EARTHWORKS PLAN
1:500 (AT A1)



REV	DATE	REVISIONS	DRN	CHK
3	15/04/21	PRELIMINARY	IC	VC
2	08/03/21	PRELIMINARY	IC	VC
1	30/04/20	PRELIMINARY	IC	VC

DESIGNED: VC	DATUM: AHD	A1
DRAWN: IC	COORDINATE SYSTEM:	
CHECKED: VC	APPROVED:	
RECOMMENDED:	PROJECT MANAGER: DATE	PROJECT DIRECTOR: DATE

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LIVING CHOICE AUSTRALIA
PROPOSED RETIREMENT VILLAGE
330 GALSTON ROAD, GALSTON NSW
BULK EARTHWORKS PLAN

DRAWING STATUS: PRELIMINARY	REV
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DRAWING NUMBER: 16018-CI-080	3