

ARENA - STAGES 01-06, ORAN PARK

ISSUED FOR DEVELOPMENT APPLICATION

SCHEDULE OF DRAWINGS

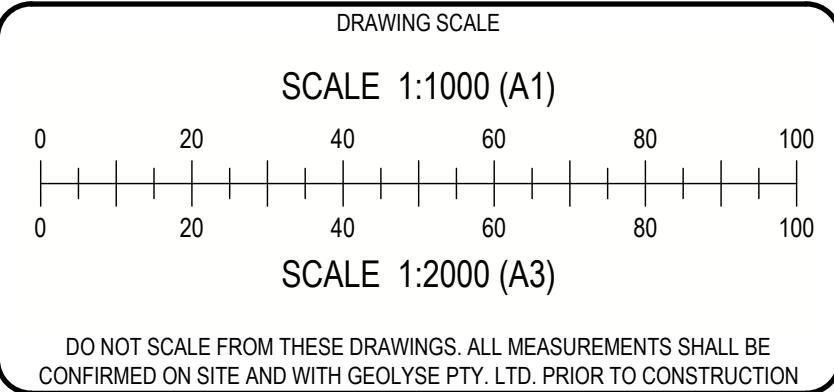
No.	DRAWING TITLE	REVISION
GENERAL		
C001	TITLE SHEET & SITE LOCALITY	G
C002	EXISTING SITE LAYOUT PLAN	B
C003	GENERAL ARRANGEMENT PLAN	C
C004	SHEET LAYOUT PLAN	B
C005	GENERAL NOTES & LEGEND	B
SITE REGRADING		
C100	SITE REGRADING PLAN SHEET 1 OF 5	E
C101	SITE REGRADING PLAN SHEET 2 OF 5	D
C102	SITE REGRADING PLAN SHEET 3 OF 5	D
C103	SITE REGRADING PLAN SHEET 4 OF 5	E
C104	SITE REGRADING PLAN SHEET 5 OF 5	D
C105	BULK EARTHWORKS PLAN	C
C106	SITE SECTIONS A-A & B-B	A
C107	SITE SECTIONS C-C & D-D	A
ENGINEERING PLAN		
C200	CIVIL WORKS PLAN SHEET 1 OF 5	E
C201	CIVIL WORKS PLAN SHEET 2 OF 5	D
C202	CIVIL WORKS PLAN SHEET 3 OF 5	E
C203	CIVIL WORKS PLAN SHEET 4 OF 5	E
C204	CIVIL WORKS PLAN SHEET 5 OF 5	D
TURNING PATH		
C300	TURNING PATH PLAN SHEET 1 OF 3	C
C301	TURNING PATH PLAN SHEET 2 OF 3	B
C302	TURNING PATH PLAN SHEET 3 OF 3	B
LANE LONGITUDINAL SECTIONS		
C350	LANE 01 & 02 LONGITUDINAL & TYPICAL SECTIONS	A
C351	LANE 03,04 & 05 LONGITUDINAL & TYPICAL SECTIONS	A
C352	DRIVEWAY 01, 02 & 03 LONGITUDINAL & TYPICAL SECTIONS	D
SEDIMENT & EROSION CONTROL		
C500	SOIL & WATER MANAGEMENT PLAN SHEET 1 OF 2	E
C501	SOIL & WATER MANAGEMENT PLAN SHEET 2 OF 2	C
C502	SOIL & WATER MANAGEMENT TYPICAL DETAILS	B



LOCALITY PLAN
SCALE 1:1000

REV.	DATE	DFTD.	APPD.	DETAILS
A	19/11/2018	KH	AB	ISSUED FOR DEVELOPMENT APPLICATION
B	21/11/2018	KH	MZ	GENERAL NOTES UPDATED & ISSUED FOR DEVELOPMENT APPLICATION
C	22/11/2018	KH	AB	ARCHITECTURAL PLAN UPDATED & ISSUED FOR DEVELOPMENT APPLICATION
D	06/12/2018	KH	AB	MINOR AMENDMENT & ISSUED FOR DEVELOPMENT APPLICATION
E	29/04/2019	KH	AB	ISSUED FOR DA - COUNCIL RFI 01
F	17/09/2019	NTT	AB	ISSUED FOR DA - COUNCIL RFI 02
G	25/10/2019	NTT	AB	PATHWAY AMENDED

	FILE	INITIALS	DATE
SURVEY	JMD Surveyor	-	APRIL 2013
DESIGN	Tranche_27_Stages_01-06.project	AB	APRIL 2018
DRAINS/ HEC-RAS MODELLING	-	-	-
ENGINEERING/ SURVEYING APPROVAL	ALEX BLACK MICHA ZESCHKE	AB MZ	19/11/2018 19/11/2018



APPROVAL AUTHORITY	CAMDEN COUNCIL
CLIENT	VILLAWORLD
PROJECT	ARENA - STAGES 1 - 6

 **GEOLYSE**

Part of  **Premise**

ORAN PARK
oranpark@geolyse.com
www.geolyse.com

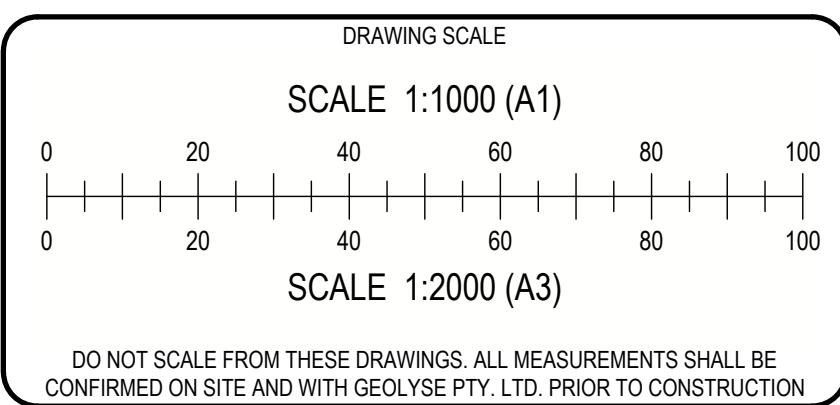
SUITE 301, LEVEL 3
ORAN PARK PODIUM
351 ORAN PARK DRIVE
ORAN PARK, NSW 2570
Ph. (02) 4632 6500

DRAWING			
TITLE SHEET & SITE LOCALITY			
PROJECT NUMBER 318028	DRAWING FILE 318028_04E_C001-C005.dwg	ORIGINAL	A1
SURVEY MARK	R.L.	DATUM A.H.D.	SET
IMAGE SOURCE			
STATUS FOR APPROVAL	SHEET C001 OF C502		04G



REV.	DATE	DFTD.	APPD.	DETAILS
A	29/04/2019	KH	AB	ISSUED FOR DA - COUNCIL RFI 01

	FILE	INITIALS	DATE
SURVEY	JMD Surveyor	-	APRIL 2013
DESIGN	Tranche_27_Stages_01-06.project	AB	APRIL 2018
DRAINS/ HEC-RAS MODELLING	-	-	-
ENGINEERING/ SURVEYING APPROVAL	ALEX BLACK MICHA ZESCHKE	AB MZ	19/11/2018 19/11/2018



APPROVAL AUTHORITY	CAMDEN COUNCIL
CLIENT	VILLAWORLD
PROJECT	ARENA - STAGES 1 - 6

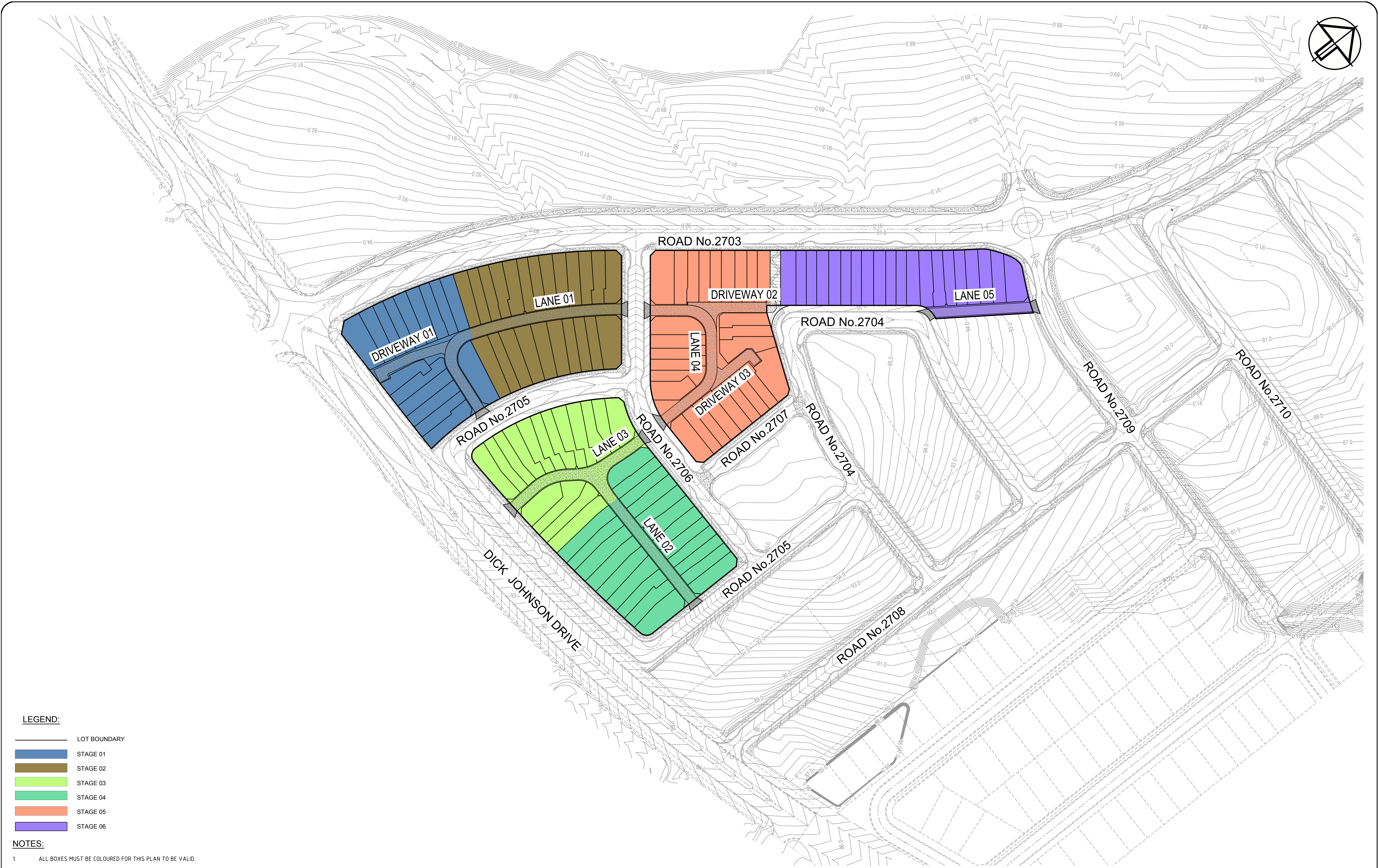
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DRAWING				EXISTING SITE LAYOUT PLAN	
PROJECT NUMBER	318028	DRAWING FILE	318028_04E_C001-C005.dwg	ORIGINAL	A1
SURVEY MARK	.	R.L.	.	DATUM	A.H.D.
IMAGE SOURCE	-	STATUS		FOR APPROVAL	SET
SHEET		C002	OF	C502	04A



LEGEND:

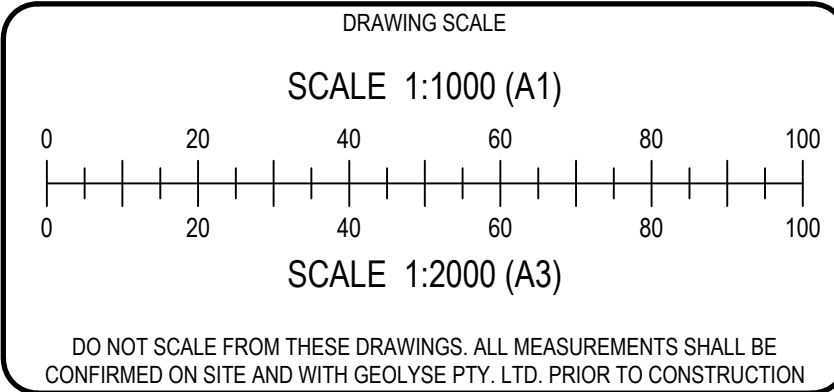
- LOT BOUNDARY
- STAGE 01
- STAGE 02
- STAGE 03
- STAGE 04
- STAGE 05
- STAGE 06

NOTES:

1. ALL BOXES MUST BE COLOURED FOR THIS PLAN TO BE VALID.

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	FILE	INITIALS	DATE
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DESIGN	Tranche_27_Stages_01-06.project	AB	APRIL 2018
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ENGINEERING/ SURVEYING APPROVAL	ALEX BLACK MICHA ZESCHKE	AB MZ	19/11/2018 19/11/2018



APPROVAL AUTHORITY	CAMDEN COUNCIL
CLIENT	VILLAWORLD
PROJECT	ARENA - STAGES 1 - 6

GEOLYSE

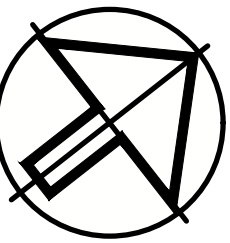
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GENERAL ARRANGEMENT PLAN			
PROJECT NUMBER 318028	DRAWING FILE 318028_04E_C001-C005.dwg	ORIGINAL	A1
SURVEY MARK	R.L.	DATUM A.H.D.	SET
IMAGE SOURCE -			
STATUS FOR APPROVAL	SHEET C003 OF C502		04C



REV.	DATE	DFTD.	APPD.	DETAILS
A	29/04/2019	KH	AB	ISSUED FOR DA - COUNCIL RF1 01
B	17/09/2019	NTT	AB	ISSUED FOR DA - COUNCIL RF1 02

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DESIGN	Tranche_27_Stages_01-06.project	AB	APRIL 2018
DRAINS/ HEC-RAS MODELLING	-	-	-
ENGINEERING/ SURVEYING/ APPROVAL	ALEX BLACK MICHA ZESCHKE	AB MZ	19/11/2018 19/11/2018

DRAWING SCALE

SCALE 1:1000 (A1)

0 20 40 60 80 100

0 20 40 60 80 100

SCALE 1:2000 (A3)

DO NOT SCALE FROM THESE DRAWINGS. ALL MEASUREMENTS SHALL BE
CONFIRMED ON SITE AND WITH GEOLYSE PTY. LTD. PRIOR TO CONSTRUCTION

APPROVAL AUTHORITY	CAMDEN COUNCIL
CLIENT	VILLAWORLD
PROJECT	ARENA - STAGES 1 - 6

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SURVEY MARK	.	R.L.	.	DATUM	A.H.D.
IMAGE SOURCE	-			SET	04B
STATUS	FOR APPROVAL	SHEET	C004	OF	C502

GENERAL NOTES:

1. ALL WORK TO BE CARRIED OUT IN ACCORDANCE WITH CAMDEN COUNCIL'S ENGINEERING DESIGN AND ENGINEERING CONSTRUCTION SPECIFICATIONS AND TO THE REQUIREMENTS OF THE CERTIFYING AUTHORITY.
2. ALL BUILDING WORK SHALL BE CARRIED OUT IN ACCORDANCE WITH THE NATIONAL CONSTRUCTION CODE.
3. INSPECTIONS BY CERTIFYING AUTHORITY ARE REQUIRED AT THE FOLLOWING STAGES AND THE WORKS APPROVED PRIOR TO CONTINUANCE OF ANY FUTURE WORK:

A. FOLLOWING INSTALLATION OF EROSION AND SEDIMENT CONTROL STRUCTURES/MEASURES.

B. PRIOR TO BACKFILLING PIPELINES, SUBSOIL DRAINS AND DAMS.

C. PRIOR TO CASTING OF PITS AND OTHER CONCRETE STRUCTURES, INCLUDING KERB AND GUTTER BUT FOLLOWING PLACEMENT OF FOOTINGS, FORMWORK, AND REINFORCEMENT.

D. PRIOR TO PLACEMENT OF SUB BASE AND ALL SUBSEQUENT PAVEMENT LAYERS, A PROOF ROLLER TEST OF EACH PAVEMENT LAYER IS REQUIRED.

E. FORMWORK PRIOR TO POURING CONCRETE IN PARKING AREA FOR FOOTPATH CROSSING AND OTHER ASSOCIATED WORK.

F. PRIOR TO BACKFILLING PUBLIC UTILITY CROSSINGS IN ROAD RESERVES.

G. FINAL INSPECTIONS AFTER ALL WORKS ARE COMPLETED AND 'WORKS AS EXECUTED' PLANS HAVE BEEN SUBMITTED TO COUNCIL.

4. NO TREES ARE TO BE REMOVED UNLESS APPROVAL IS GRANTED BY COUNCIL'S LANDSCAPE COMPLIANCE OFFICER OR AS AUTHORISED BY DEVELOPMENT CONSENT.

5. MAKE SMOOTH JUNCTIONS WITH EXISTING WORKS.

6. NO WORK IS TO BE CARRIED OUT ON COUNCIL PROPERTY OR ADJOINING PROPERTIES WITHOUT THE WRITTEN PERMISSION FROM THE OWNERS.

7. VEHICULAR ACCESS AND ALL UTILITIES/SERVICES ARE TO BE MAINTAINED AT ALL TIMES TO ADJOINING PROPERTIES AFFECTED BY CONSTRUCTION.

8. ALL RUBBISH, BUILDINGS, SHEDS AND FENCES TO BE REMOVED TO SATISFACTION OF COUNCIL'S ENGINEER.
- EARTHWORKS
1. EARTHWORKS ARE TO BE CARRIED OUT TO THE SATISFACTION OF THE COUNCIL. UNSUITABLE MATERIALS ARE TO BE REMOVED FROM ROADS AND LOTS PRIOR TO FILLING. THE CONTRACTOR IS TO ARRANGE AND MAKE AVAILABLE COMPACTION TESTING RESULTS FOR ALL AREAS THAT CONTAIN FILL IN EXCESS OF 200mm.

2. COMPACTION OF EARTHWORKS SHALL CONTINUE UNTIL A DRY DENSITY RATIO OF 95% FOR SITE FILLING AND 100% FOR ROAD PAVEMENT SUBGRADES HAS BEEN ACHIEVED IN ACCORDANCE WITH TEST METHOD AS1289.5.3.1 OR AS1289.5.1.1. THE CONTROL TESTING OF EARTHWORKS SHALL BE IN ACCORDANCE WITH THE GUIDELINES IN AS3798 'GUIDELINES ON EARTHWORKS FOR COMMERCIAL AND RESIDENTIAL DEVELOPMENTS', WHERE IT IS PROPOSED TO USE TEST METHOD AS1289.5.8.1 TO DETERMINE THE FIELD DENSITY, A SAND REPLACEMENT METHOD SHALL BE USED TO CONFIRM THE RESULTS.

3. THE SUITABLE QUALIFIED GEOTECHNICAL ENGINEER, SHALL HAVE A LEVEL 1 RESPONSIBILITY FOR ALL FILLING AS DEFINED IN APPENDIX B AS3798 'GUIDELINES ON EARTHWORKS FOR COMMERCIAL AND RESIDENTIAL DEVELOPMENTS', AND AT THE END OF THE WORKS SHALL CONFIRM THE EARTHWORKS COMPLY WITH THE REQUIREMENTS OF THE SPECIFICATION AND DRAWINGS BY WRITTEN NOTIFICATION.

4. IN AREAS TO BE FILLED WHERE THE SLOPE OF THE NATURAL SURFACE EXCEEDS 1(V):4(H), BENCHES ARE TO BE CUT TO PREVENT SLIPPING OF THE PLACED FILL MATERIAL AS REQUIRED BY THE COUNCIL. TEMPORARY BATTERS TO BE STABILISED TO COUNCIL ENGINEERS SATISFACTION.

5. ALL EXPOSED AREAS TO BE COATED BY COUNCIL APPROVED SUPERSKIN OR APPROVED EQUIVALENT.

6. PROVIDE MINIMUM 150mm AND MAXIMUM 300mm TOPSOIL ON FOOTPATHS, FILLED AREAS AND ALL OTHER AREAS DISTURBED DURING CONSTRUCTION. TOPSOILED AREAS TO BE STABILISED WITH APPROVED VEGETATION A MAXIMUM OF 14 DAYS AFTER TOPSOILING AND ARE TO BE WATERED TO ENSURE GERMINATION.

7. THE CONTRACTOR SHALL CONTROL SEDIMENTATION, EROSION AND POLLUTION DURING CONSTRUCTION IN ACCORDANCE WITH THE REQUIREMENTS OF THE CURRENT EDITION OF 'MANAGING URBAN STORMWATER: SOILS AND CONSTRUCTION' PRODUCED BY LANDCOM.

8. A MINIMUM 1m WIDE, CONTINUOUS STRIP OF COUCH GRASS SHALL BE PLACED BEHIND THE BACK OF ALL KERBS & OTHER CONCRETE STRUCTURES IMMEDIATELY AFTER THE COMPLETION OF THE FOOTPATH GRADING OR OTHER ELEMENTS AS APPLICABLE, AND SHALL BE MAINTAINED AND REPLACED AS REQUIRED DURING THE CONSTRUCTION MAINTENANCE PERIOD.
- ROADWORKS:
1. SUBGRADES AND SUB BASES ARE TO BE COMPACTED IN ACCORDANCE WITH COUNCIL'S CONSTRUCTION SPECIFICATION.

2. SUBSOIL DRAINS TO BE PROVIDED ON BOTH SIDES OF ROADS (EXCEPT WHERE THERE IS STORMWATER DRAINAGE).

3. 150 x 50 H.D. GALVANISED STEEL KERB OUTLETS TO BE PLACED IN ALL KERB TYPES ON LOW SIDE OF LOTS. PROVIDE SUITABLE ADAPTOR TO ALLOW CONNECTION OF STORMWATER PIPE.

4. LIPLESS PERAMBULATOR CROSSINGS ARE TO BE PROVIDED IN ALL KERB RETURNS AND WHERE REQUIRED BY COUNCIL.

5. SERVICE CONDUITS TO BE PLACED AS DIRECTED BY ALL PUBLIC UTILITY AUTHORITIES INCLUDING INTEGRAL ENERGY, TELSTRA AND SYDNEY WATER

6. PROPOSED UTILITIES AND SERVICES CROSSING EXISTING ROADS SHALL BE PROVIDED FOR USING A TRENCHLESS TECHNIQUE SO AS NOT TO DAMAGE THE EXISTING SURFACE. ALL SERVICE CONDUITS UNDER ROADS MUST BE LAID TO A MINIMUM DEPTH OF 750mm.

7. CONCRETE FOOTPATH CONSTRUCTION IS TO BE BONDED WITH COUNCIL PENDING COMPLETION OF UTILITY/SERVICES AND SURROUNDING DWELLINGS.

8. ALL TEMPORARY ROADS MUST BE TEMPORARILY SEALED WITH A SINGLE COAT FLUSH SEAL.

9. SIGNPOSTING AND LINE MARKING SHALL CONFORM TO AS1742.2 'TRAFFIC CONTROL DEVICES FOR GENERAL USE'. RAISED RETRO-REFLECTIVE PAVEMENT MARKERS TO CONFORM TO AS1906 'RETRO-REFLECTIVE MATERIALS AND DEVICES FOR ROAD TRAFFIC CONTROL PURPOSES'. ALL APRONS AND KERB FACE ON CENTRAL ISLANDS OF ROUNDABOUTS AND ALL OTHER ISLANDS TO BE DELINEATED BY REFLECTIVE WHITE MARKING. INSTALLATION SHALL OCCUR IN ACCORDANCE WITH THE PLAN APPROVED BY THE LOCAL TRAFFIC COMMITTEE.

10. ALL LOT AND HOUSE NUMBERS MUST BE STENCILLED ON KERB FACE.

11. STREET SIGNS TO COUNCIL STANDARD MUST BE INSTALLED BY THE CONTRACTOR.
- STORMWATER:
1. ALL PIPES TO BE SPIGOT AND SOCKET, RUBBER RING JOINTED, U.N.O.

2. ALL LONGITUDINAL PIPELINES IN ROADS MUST BE LOCATED UNDER KERB AND GUTTER AND BE BACKFILLED WITH APPROVED GRANULAR MATERIAL UNLESS OTHERWISE APPROVED BY THE COUNCIL ENGINEER.

3. DRAINAGE LINES MUST BE BACKFILLED WITH APPROVED GRANULAR MATERIAL IN TRAFFICABLE AREAS. THREE (3) METRES OF SUBSOIL DRAINAGE WRAPPED IN GEOTEXTILE STOCKING MUST BE PROVIDED TO ALL DOWNSTREAM PITS.

4. ALL GULLY PITS TO COUNCIL'S STANDARD AND LINTELS CENTRALLY PLACED AT SAG PITS.

5. ALL PITS MUST BE BENCHED AND STREAMLINED. PROVIDE SL72 REINFORCEMENT AND GALVANISED STEP IRONS IN ALL PITS OVER 1.2-METRES DEEP AS MEASURED FROM THE TOP OF GRATE TO THE INVERT OF THE PIT.

6. CONCRETE IS TO HAVE MINIMUM COMPRESSIVE STRENGTH OF 32MPA AT 28-DAYS UNLESS OTHERWISE APPROVED BY THE COUNCIL ENGINEER.

7. ALL INTER-ALLOTMENT DRAINAGE MUST HAVE A MINIMUM PIPE DIAMETER OF 150mm AND A MINIMUM GRADE OF 1% UNLESS OTHERWISE APPROVED BY THE COUNCIL ENGINEER.

8. ALL INTER-ALLOTMENT DRAINAGE LINES MUST BE LAID CENTRALLY WITHIN DRAINAGE EASEMENTS. INSPECTION PITS MUST BE PROVIDED AT ALL CHANGES OF GRADE AND DIRECTION.

9. INTER-ALLOTMENT DRAINAGE LINES MUST BE INSTALLED AFTER SYDNEY WATER SEWERAGE LINES HAVE BEEN INSTALLED WHERE SEWER IS PROPOSED ADJACENT TO INTER-ALLOTMENT DRAINAGE LINES.

10. 1% AEP OVERLAND FLOW PATHS MUST BE FORMED AND SHOWN ON 'WORKS AS EXECUTED' DRAWINGS.

11. ALL PLANS (BOTH DESIGN AND WAE) ARE TO CLEARLY DELINEATE THE EXTENT/LOCATION OF FLOOD LINES INCLUDING THE 5% AEP, 1% AEP AND PMF WHERE APPLICABLE.

12. ADEQUATE PROVISION IS TO BE MADE TO PREVENT SCOURING AND SEDIMENTATION FOR ALL DRAINAGE WORKS IN ACCORDANCE WITH COUNCIL'S REQUIREMENTS.

13. CATCH DRAINS MUST BE CONSTRUCTED AS REQUIRED BY THE APPROVED PLANS OR THE PRINCIPAL CERTIFYING AUTHORITY.

14. SOIL AND WATER MANAGEMENT PLANS ARE TO BE PREPARED FOR ALL DISTURBED SITES AND ADHERED TO AT ALL TIMES DURING THE CONSTRUCTION AND MAINTENANCE PERIODS.
- LEGEND
- | DESCRIPTIONS | EXISTING | PROPOSED | FUTURE |
|-----------------------------------|----------|----------|--------|
| 150mm KERB & GUTTER | | | |
| ROLL TYPE KERB | | | |
| EDGE STRIP | | | |
| KERB ONLY | | | |
| MOUNTABLE SF TYPE KERB | | | |
| DISH CROSSING | | | |
| VEHICULAR CROSSING | | | |
| KERB / PEDESTRIAN RAMP | | | |
| EDGE OF BITUMEN | | | |
| ROAD PAVEMENT | | | |
| PATH PAVING | | | |
| BATTERS /TOP & BOTTOM OF BANKS | | | |
| CONTOURS | | | |
| SITE REGRADING AREA | | | |
| RETAINING WALL | | | |
| ROCK GABION WALL | | | |
| STORMWATER DRAINAGE PIPE | | | |
| STORMWATER DRAINAGE PIT | | | |
| DRAINAGE LINES & PIT NUMBERS | | | |
| CONCRETE HEADWALL | | | |
| SUB-SOIL & FLUSH POINTS | | | |
| KERB OUTLETS | | | |
| PIPE CONNECTIONS/JUNCTIONS | | | |
| LIMIT OF WORKS | | | |
| LIMIT OF STAGE | | | |
| LOT NUMBERS | | | |
| BOUNDARY | | | |
| FENCE | | | |
| BUILDING / STRUCTURES | | | |
| TREE | | | |
| SEWER & MANHOLES | | | |
| WATER / HYDRANTS & STOP VALVES | | | |
| ELECTRICITY / POWER & LIGHT POLES | | | |
| GAS / GAS METERS | | | |
| TELSTRA / FIBRE OPTIC / NBN | | | |
- | REV. | DATE | DFTD. | APPD. | DETAILS |
|------|------------|-------|-------|------------------------------------|
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| | | | | |
- | | FILE | INITIALS | DATE |
|---------------------------------|---------------------------------|----------|--------------------------|
| SURVEY | JMD Surveyor | - | APRIL 2013 |
| DESIGN | Tranche_27_Stages_01-06.project | AB | APRIL 2018 |
| DRAINS/ HEC-RAS MODELLING | - | - | - |
| ENGINEERING/ SURVEYING APPROVAL | ALEX BLACK
MICHA ZESCHKE | AB
MZ | 19/11/2018
19/11/2018 |
- | |
|--|
| DRAWING SCALE |
| DO NOT SCALE FROM THESE DRAWINGS. ALL MEASUREMENTS SHALL BE CONFIRMED ON SITE AND WITH GEOLYSE PTY. LTD. PRIOR TO CONSTRUCTION |
- | | |
|--------------------|----------------------|
| APPROVAL AUTHORITY | CAMDEN COUNCIL |
| CLIENT | VILLAWORLD |
| PROJECT | ARENA - STAGES 1 - 6 |
- 

Part of

Premise

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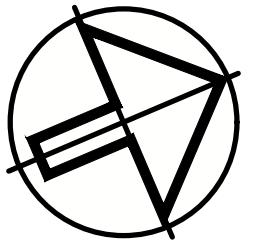
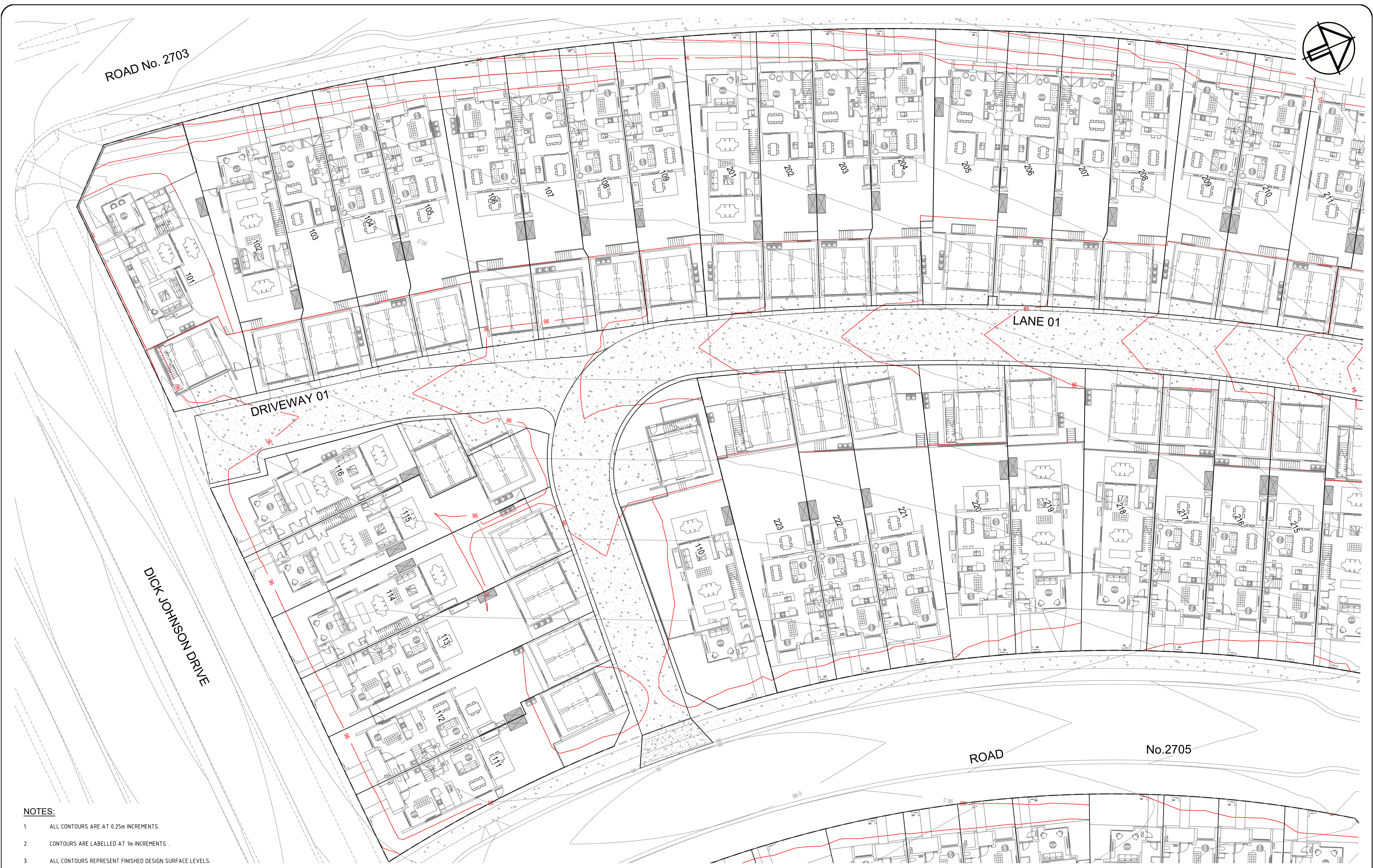
SUITE 301, LEVEL 3

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ORAN PARK, NSW 2570

Ph. (02) 4632 6500
- | GENERAL NOTES & LEGEND | | | |
|------------------------|--|---------------------------------------|--|
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| SURVEY MARK . | | R.L. . DATUM A.H.D. | |
| IMAGE SOURCE - | | SET | |
| STATUS FOR APPROVAL | | SHEET C005 OF C502 | |
| | | 04B | |

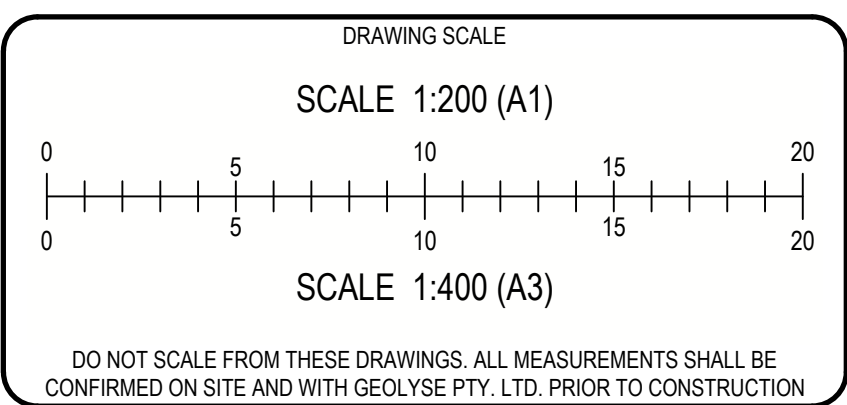


NOTES:

- ALL CONTOURS ARE AT 0.25m INCREMENTS.
- CONTOURS ARE LABELLED AT 1m INCREMENTS .
- ALL CONTOURS REPRESENT FINISHED DESIGN SURFACE LEVELS.

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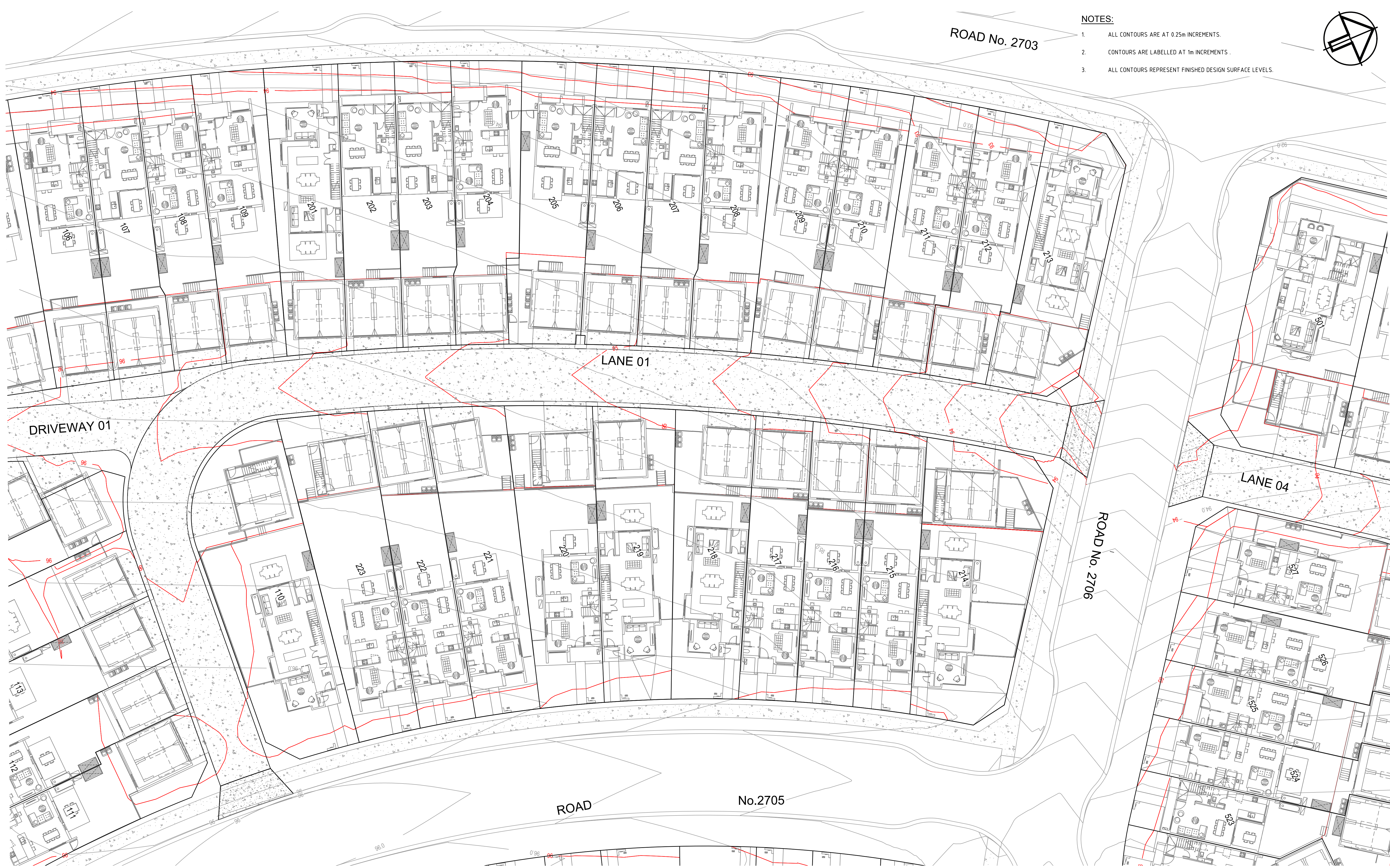
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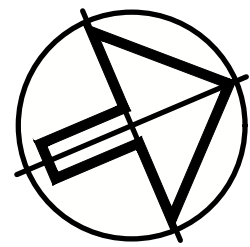
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DRAWING			
SITE REGRADING PLAN SHEET 1 OF 5			
PROJECT NUMBER 318028	DRAWING FILE 318028_04C_C100-C107.dwg	ORIGINAL	A1
SURVEY MARK	R.L.	DATUM A.H.D.	
IMAGE SOURCE			
STATUS FOR APPROVAL	SHEET C100 OF C502	04E	



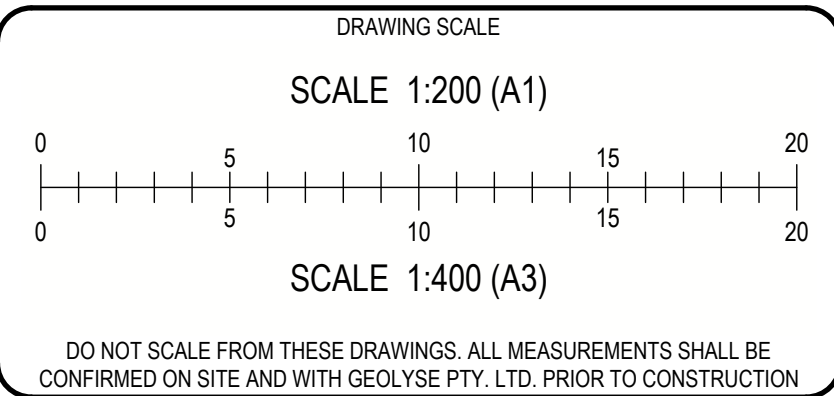
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C	29/04/2019	KH	AB	ISSUED FOR DA - COUNCIL RFI 01
D	17/09/2019	NTT	AB	ISSUED FOR DA - COUNCIL RFI 02

	FILE	INITIALS	DATE
SURVEY	JMD Surveyor	-	APRIL 2013
DESIGN	Tranche_27_Stages_01-06.project	AB	APRIL 2018
DRAINS/ HEC-RAS MODELLING			
ENGINEERING/ SURVEYING APPROVAL	ALEX BLACK MICHA ZESCHKE	AB MZ	19/11/2018 19/11/2018



APPROVAL AUTHORITY	CAMDEN COUNCIL
CLIENT	VILLAWORLD
PROJECT	ARENA - STAGES 1 - 6

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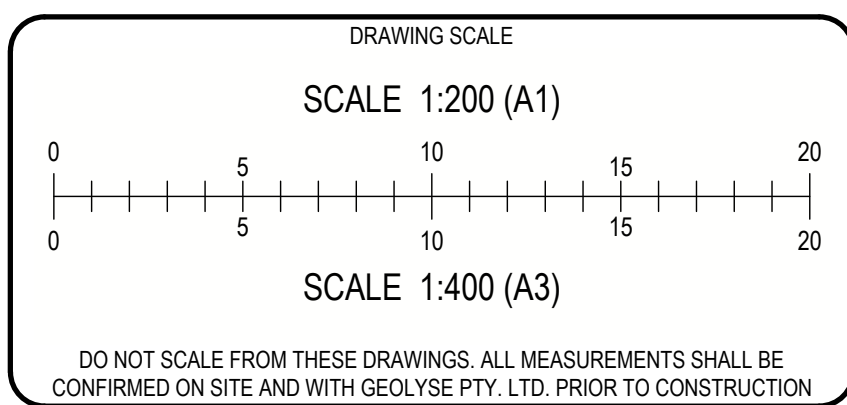
DRAWING			
SITE REGRADING PLAN SHEET 2 OF 5			
PROJECT NUMBER	318028	DRAWING FILE	318028_04C_C100-C107.dwg
SURVEY MARK		R.L.	DATUM A.H.D.
IMAGE SOURCE			
STATUS	FOR APPROVAL	SHEET	C101 OF C502
			04D



- NOTES:
- ALL CONTOURS ARE AT 0.25m INCREMENTS.
 - CONTOURS ARE LABELLED AT 1m INCREMENTS.
 - ALL CONTOURS REPRESENT FINISHED DESIGN SURFACE LEVELS.

REV.	DATE	DFTD.	APPD.	DETAILS
A	19/11/2018	KH	AB	ISSUED FOR DEVELOPMENT APPLICATION
B	06/12/2018	KH	AB	MINOR AMENDMENT & ISSUED FOR DEVELOPMENT APPLICATION
C	29/04/2019	KH	AB	ISSUED FOR DA - COUNCIL RFI 01
D	17/09/2019	NTT	AB	ISSUED FOR DA - COUNCIL RFI 02

	FILE	INITIALS	DATE
SURVEY	JMD Surveyor	-	APRIL 2013
DESIGN	Tranche_27_Stages_01-06.project	AB	APRIL 2018
DRAINS/ HEC-RAS MODELLING			
ENGINEERING/ SURVEYING APPROVAL	ALEX BLACK MICHA ZESCHKE	AB MZ	19/11/2018 19/11/2018



APPROVAL AUTHORITY	CAMDEN COUNCIL
CLIENT	VILLAWORLD
PROJECT	ARENA - STAGES 1 - 6

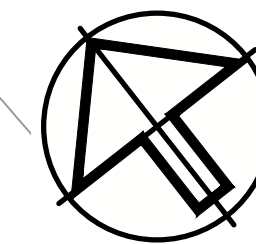
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DRAWING			
SITE REGRADING PLAN SHEET 3 OF 5			
PROJECT NUMBER	318028	DRAWING FILE	318028_04C-C100-C107.dwg
SURVEY MARK		R.L.	DATUM A.H.D.
IMAGE SOURCE			
STATUS	FOR APPROVAL	SHEET	C102 OF C502
			04D



No.2703

ROAD

ROAD No.2704

ROAD No.2707

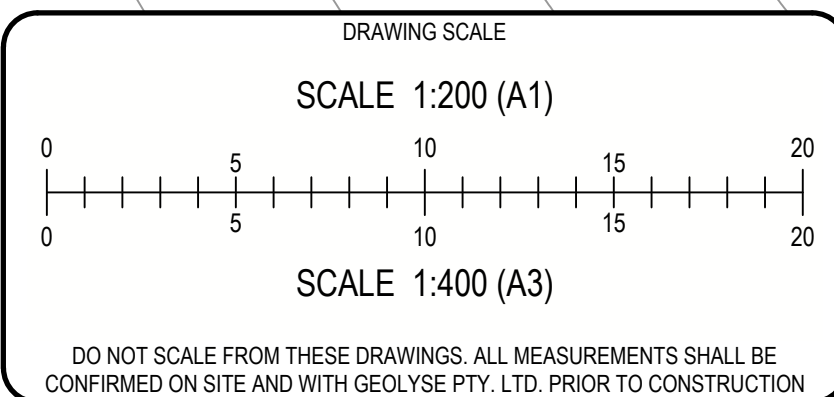
ROAD 2706

NOTES:

- ALL CONTOURS ARE AT 0.25m INCREMENTS.
- CONTOURS ARE LABELLED AT 1m INCREMENTS .
- ALL CONTOURS REPRESENT FINISHED DESIGN SURFACE LEVELS.

REV.	DATE	DFTD.	APPD.	DETAILS
A	19/11/2018	KH	AB	ISSUED FOR DEVELOPMENT APPLICATION
B	06/12/2018	KH	AB	MINOR AMENDMENT & ISSUED FOR DEVELOPMENT APPLICATION
C	29/04/2019	KH	AB	ISSUED FOR DA – COUNCIL RFI 01
D	17/09/2019	NTT	AB	ISSUED FOR DA – COUNCIL RFI 02
E	25/10/2019	NTT	AB	PATHWAY AMENDED

	FILE	INITIALS	DATE
SURVEY	JMD Surveyor	-	APRIL 2013
DESIGN	Tranche_27_Stages_01-06.project	AB	APRIL 2018
DRAINS/ HEC-RAS MODELLING			
ENGINEERING/ SURVEYING APPROVAL	ALEX BLACK MICHA ZESCHKE	AB MZ	19/11/2018 19/11/2018



APPROVAL AUTHORITY	CAMDEN COUNCIL
CLIENT	VILLAWORLD
PROJECT	ARENA - STAGES 1 - 6

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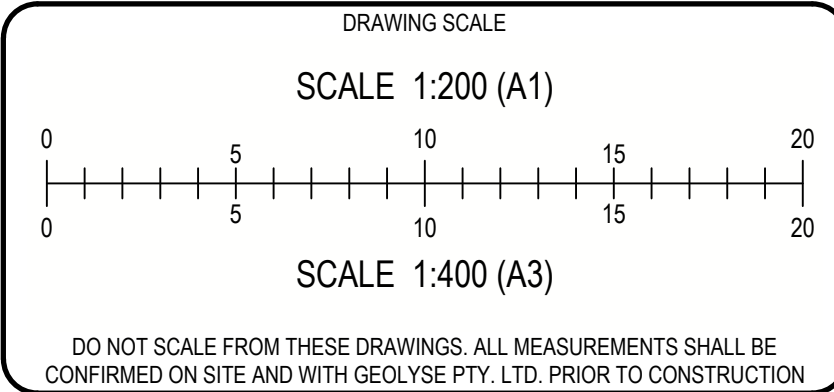
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DRAWING				SITE REGRADING PLAN SHEET 4 OF 5	
PROJECT NUMBER	318028	DRAWING FILE	318028_04C_C100-C107.dwg	ORIGINAL	A1
SURVEY MARK		R.L.		DATUM	A.H.D.
IMAGE SOURCE				SET	04E
STATUS FOR APPROVAL		SHEET	C103	OF	C502



REV.	DATE	DFTD.	APPD.	DETAILS
A	19/11/2018	KH	AB	ISSUED FOR DEVELOPMENT APPLICATION
B	06/12/2018	KH	AB	MINOR AMENDMENT & ISSUED FOR DEVELOPMENT APPLICATION
C	29/04/2019	KH	AB	ISSUED FOR DA - COUNCIL RF1 01
D	17/09/2019	NTT	AB	ISSUED FOR DA - COUNCIL RF1 02

	FILE	INITIALS	DATE
SURVEY	JMD Surveyor	-	APRIL 2013
DESIGN	Tranche_27_Stages_01-06.project	AB	APRIL 2018
DRAINS/ HEC-RAS MODELLING			
ENGINEERING/ SURVEYING APPROVAL	ALEX BLACK MICHA ZESCHKE	AB MZ	19/11/2018 19/11/2018



APPROVAL AUTHORITY	CAMDEN COUNCIL
CLIENT	VILLAWORLD
PROJECT	ARENA - STAGES 1 - 6

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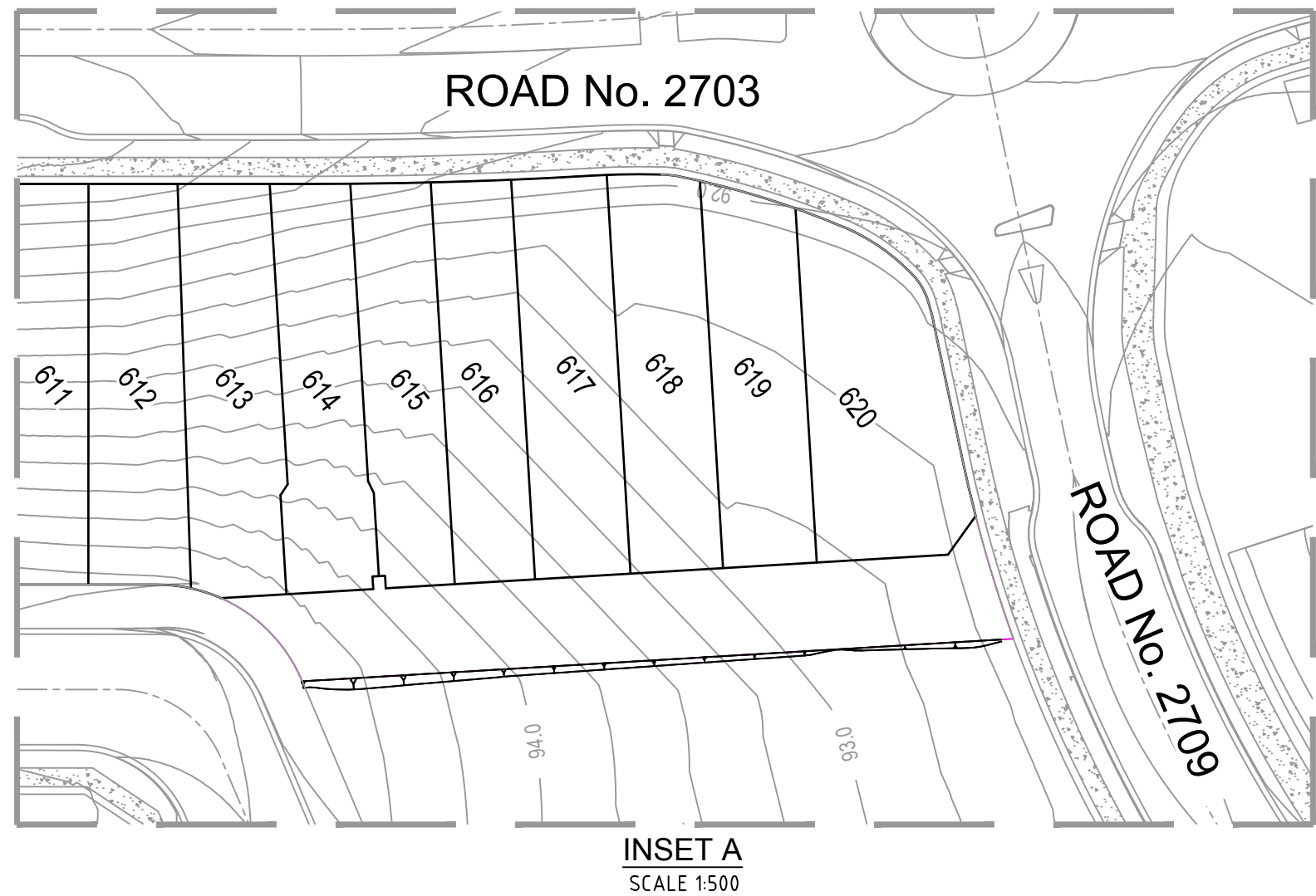
DRAWING				SITE REGRADING PLAN SHEET 5 OF 5	
PROJECT NUMBER 318028		DRAWING FILE 318028_04C_C100-C107.dwg		ORIGINAL	
SURVEY MARK		R.L.		DATUM A.H.D.	
IMAGE SOURCE				SET	
STATUS FOR APPROVAL		SHEET C104 OF C502		04D	



CUT/FILL		
Colour	Depth Range (m)	
	-5.000	-2.000
	-2.000	-1.000
	-1.000	-0.500
	-0.500	-0.250
	-0.250	0.000
	0.000	0.250
	0.250	0.500
	0.500	1.000
	1.000	2.000
	2.000	5.000
	5.000	10.000

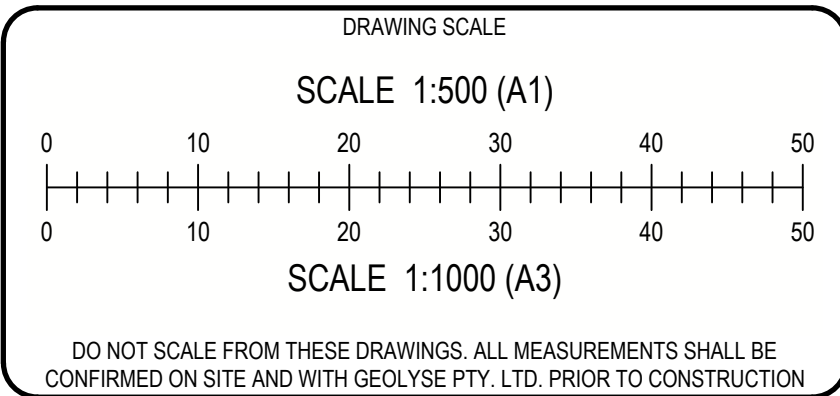
NOTES:

- CUT/FILL DEPTHS REPRESENT LEVEL DIFFERENCE BETWEEN EXISTING TERRAIN & FINISHED DESIGN LEVEL ONLY.
- ALL BOXES MUST BE COLOURED FOR THIS PLAN TO BE VALID.



REV.	DATE	DFTD.	APPD.	DETAILS
A	19/11/2018	KH	AB	ISSUED FOR DEVELOPMENT APPLICATION
B	29/04/2019	KH	AB	ISSUED FOR DA - COUNCIL RFI 01
C	17/09/2019	NTT	AB	ISSUED FOR DA - COUNCIL RFI 02

	FILE	INITIALS	DATE
SURVEY	JMD Surveyor	-	APRIL 2013
DESIGN	Tranche_27_Stages_01-06.project	AB	APRIL 2018
DRAINS/ HEC-RAS MODELLING			-
ENGINEERING/ SURVEYING APPROVAL	ALEX BLACK MICHA ZESCHKE	AB MZ	19/11/2018 19/11/2018



APPROVAL AUTHORITY	CAMDEN COUNCIL
CLIENT	VILLAWORLD
PROJECT	ARENA - STAGES 1 - 6

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DRAWING				BULK EARTHWORKS PLAN	
PROJECT NUMBER 318028		DRAWING FILE 318028_04C_C100-C107.dwg		ORIGINAL	A1
SURVEY MARK		R.L.		DATUM	A.H.D.
IMAGE SOURCE				SET	04C
STATUS FOR APPROVAL		SHEET C105 OF C502			

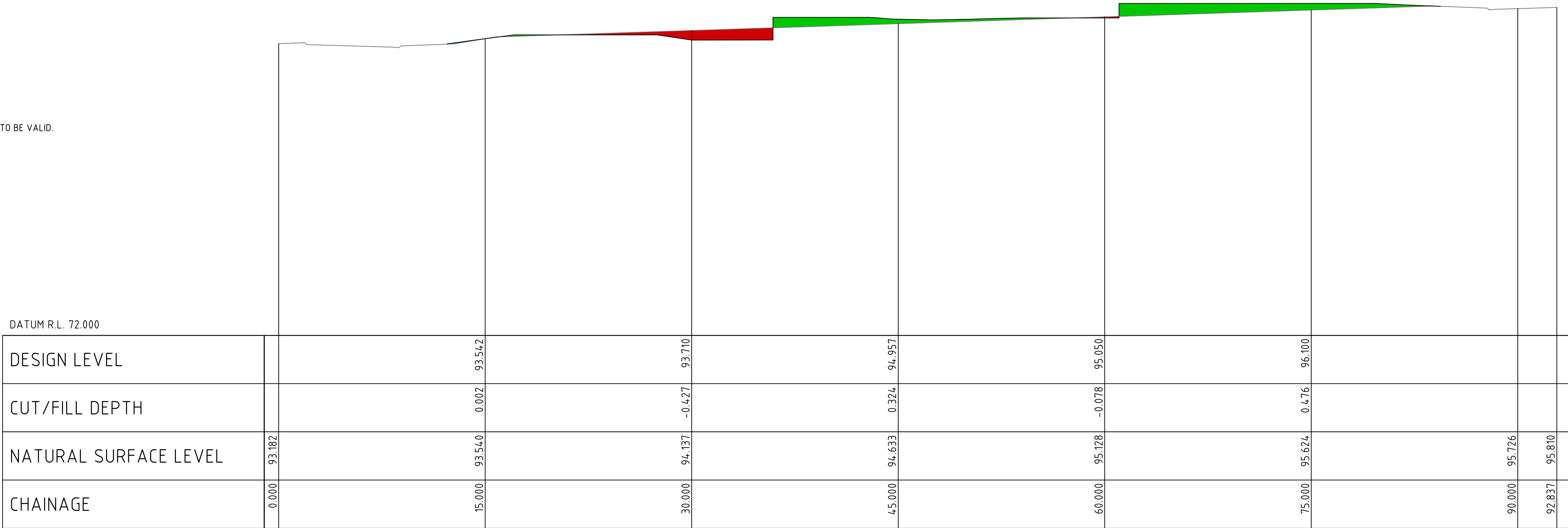
LEGEND

CUT

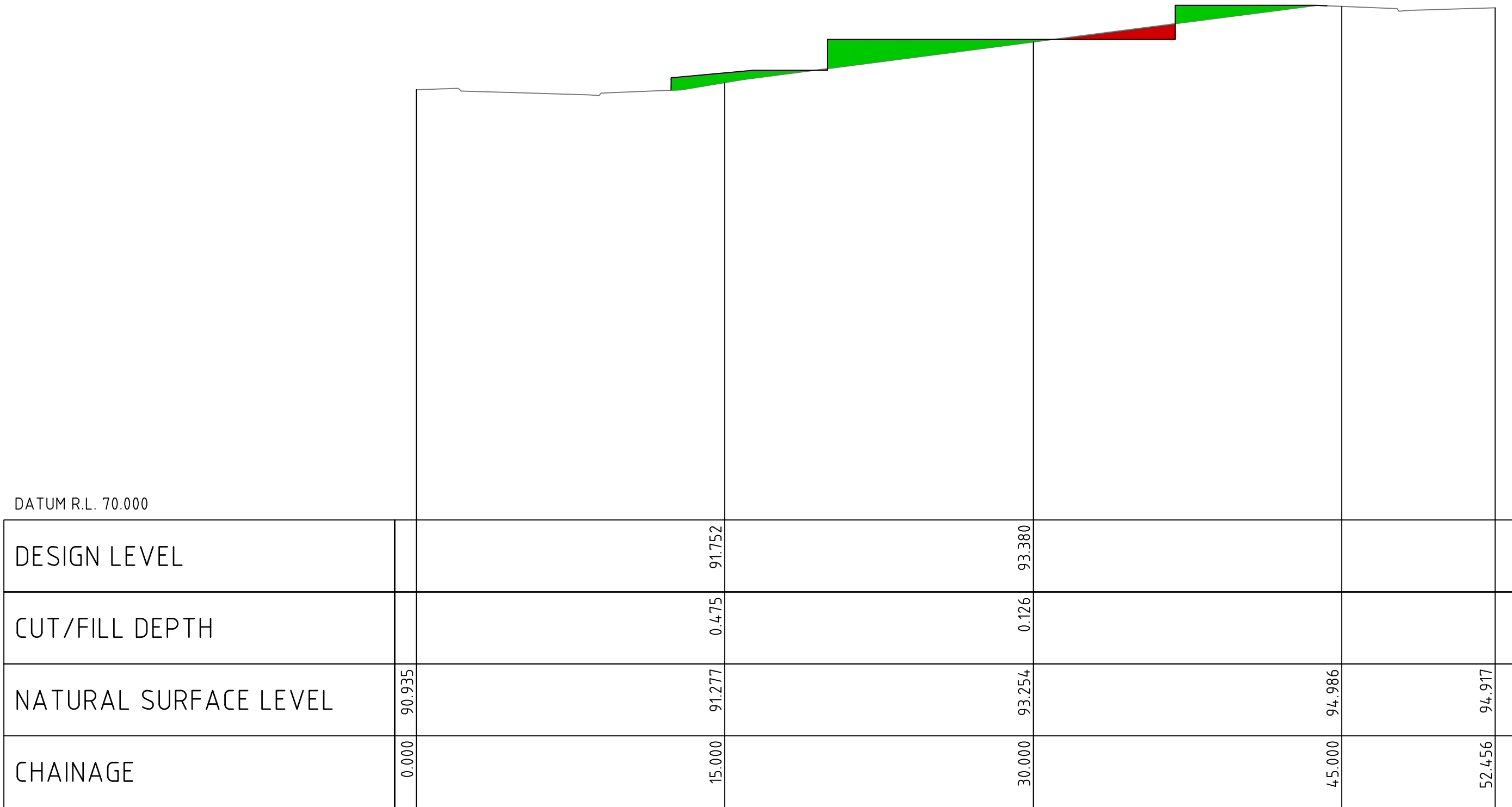
FILL

NOTES:

1. ALL BOXES MUST BE COLOURED FOR THIS PLAN TO BE VALID.



LONGITUDINAL SECTION B-B



LONGITUDINAL SECTION A-A

REV.	DATE	DFTD.	APPD.	DETAILS
A	29/04/2019	KH	AB	ISSUED FOR DA – COUNCIL RFI 01

	FILE	INITIALS	DATE
SURVEY	JMD Surveyor	-	APRIL 2013
DESIGN	Tranche_27_Stages_01-06.project	AB	APRIL 2018
DRAINS/ HEC-RAS MODELLING	-	-	-
ENGINEERING/ SURVEYING/ APPROVAL	ALEX BLACK MICHA ZESCHKE	AB MZ	19/11/2018 19/11/2018

DRAWING SCALE

SCALE 1:200 (A1)

SCALE 1:400 (A3)

DO NOT SCALE FROM THESE DRAWINGS. ALL MEASUREMENTS SHALL BE
CONFIRMED ON SITE AND WITH GEOLYSE PTY. LTD. PRIOR TO CONSTRUCTION

APPROVAL AUTHORITY	CAMDEN COUNCIL
CLIENT	VILLAWORLD
PROJECT	ARENA - STAGES 1 - 6

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DRAWING				SITE SECTIONS A-A & B-B	
PROJECT NUMBER 318028		DRAWING FILE 318028_04C_C100-C107.dwg		ORIGINAL	
SURVEY MARK .		R.L. .		DATUM A.H.D.	A1
IMAGE SOURCE -				SET	04A
STATUS FOR APPROVAL		SHEET C106 OF C502			

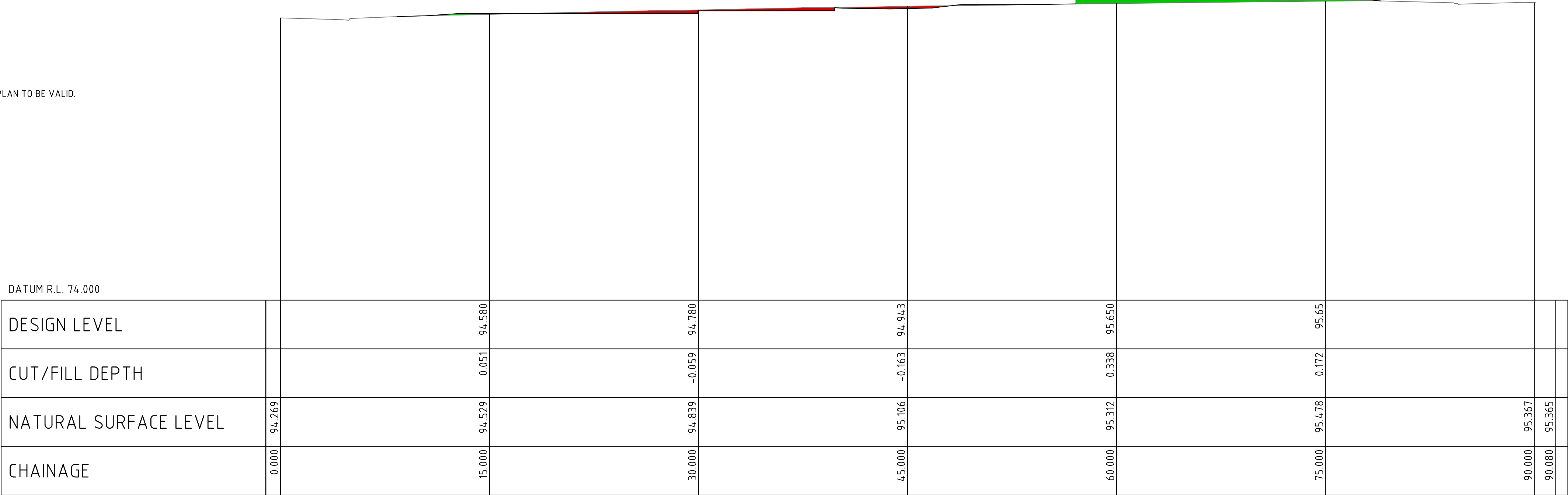
LEGEND

CUT

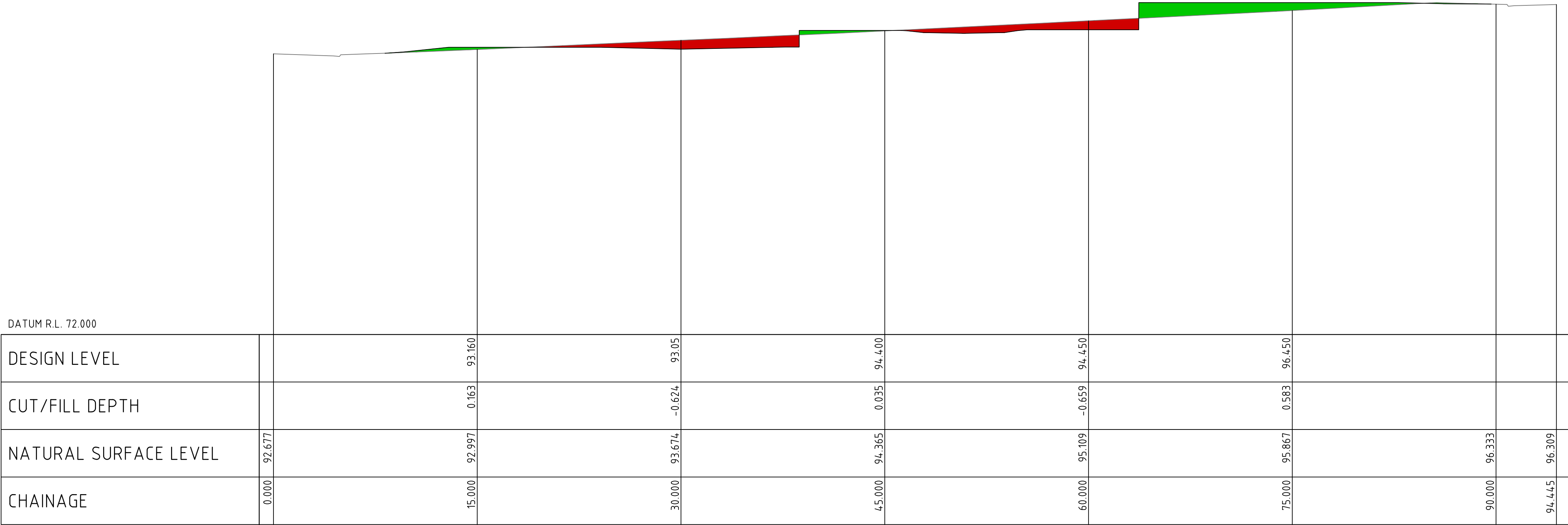
FILL

NOTES:

1. ALL BOXES MUST BE COLOURED FOR THIS PLAN TO BE VALID.



LONGITUDINAL SECTION D-D



LONGITUDINAL SECTION C-C

REV.	DATE	DFTD.	APPD.	DETAILS
A	29/04/2019	KH	AB	ISSUED FOR DA – COUNCIL RFI 01

	FILE	INITIALS	DATE
SURVEY	JMD Surveyor	-	APRIL 2013
DESIGN	Tranche_27_Stages_01-06.project	AB	APRIL 2018
DRAINS/ HEC-RAS MODELLING	-	-	-
ENGINEERING/ SURVEYING/ APPROVAL	ALEX BLACK MICHA ZESCHKE	AB MZ	19/11/2018 19/11/2018

DRAWING SCALE

SCALE 1:200 (A1)

SCALE 1:400 (A3)

DO NOT SCALE FROM THESE DRAWINGS. ALL MEASUREMENTS SHALL BE
CONFIRMED ON SITE AND WITH GEOLYSE PTY. LTD. PRIOR TO CONSTRUCTION

APPROVAL AUTHORITY	CAMDEN COUNCIL
CLIENT	VILLAWORLD
PROJECT	ARENA - STAGES 1 - 6

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DRAWING				SITE SECTIONS C-C & D-D	
PROJECT NUMBER 318028		DRAWING FILE 318028_04C_C100-C107.dwg		ORIGINAL	
SURVEY MARK .		R.L. .		DATUM A.H.D.	
IMAGE SOURCE -				SET	
STATUS FOR APPROVAL		SHEET C107 OF C502		04A	



- NOTES:**
- 1. WATER SUPPLY & SEWER AS SHOWN ARE CONCEPT & INDICATIVE ONLY. WSC TO CONFIRM DETAILED DESIGN OF THESE SERVICES AT CONSTRUCTION CERTIFICATE.
 - 2. REFER TO LANDSCAPE PLANS FOR FURTHER DETAILS ON PROPOSED LANDSCAPE WALLS.
 - 3. REFER TO STRUCTURAL PLANS FOR ALL WALL TYPICAL DETAILS & SLAB DROP EDGE BEAMS DETAILS. LOCATION OF EDGE BEAMS ARE THE STRUCTURAL ENGINEERS ULTIMATE DISCRETION.
 - 4. ALL BOXES MUST BE COLOURED FOR THIS PLAN TO BE VALID.
 - 5. PROVIDE COMMERCIAL/INDUSTRIAL LAYBACK ALL PROPOSED LANEWAY CROSSOVERS.

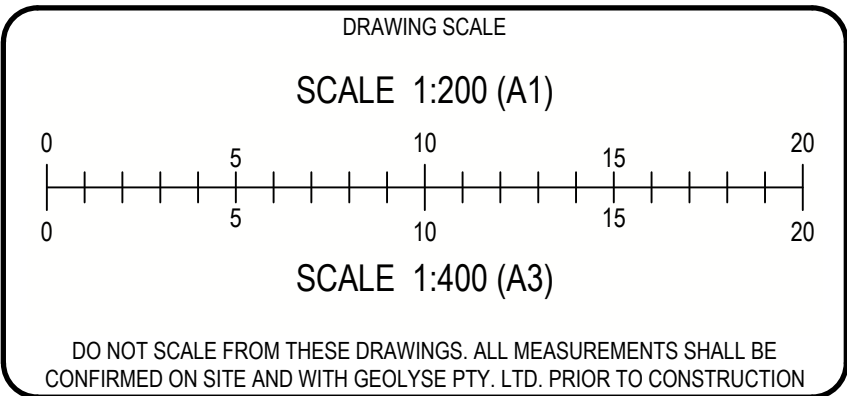
SLAB LEVEL DIFFERENCE	
LEGEND	HEIGHT (MM)
	0 - 600
	600 - 1000
	1000 - 2000

CIVIL RETAINING WALL SCHEDULE	
TYPE	HEIGHT (MM)
TYPE 01	400 - 1000
TYPE 02	1000 - 2000
TYPE 03	2000 - 3000

LANDSCAPE RETAINING WALL SCHEDULE	
LEGEND	HEIGHT (MM)
	0 - 400

REV.	DATE	DFTD.	APPD.	DETAILS
A	19/11/2018	KH	AB	ISSUED FOR DEVELOPMENT APPLICATION
B	22/11/2018	KH	AB	ARCHITECTURAL PLAN UPDATED & ISSUED FOR DEVELOPMENT APPLICATION
C	06/12/2018	KH	AB	MINOR AMENDMENT & ISSUED FOR DEVELOPMENT APPLICATION
D	29/04/2019	KH	AB	ISSUED FOR DA - COUNCIL RFI 01
E	17/09/2019	NTT	AB	ISSUED FOR DA - COUNCIL RFI 02

	FILE	INITIALS	DATE
SURVEY	JMD Surveyor	-	APRIL 2013
DESIGN	Tranche_27_Stages_01-06.project	AB	APRIL 2018
DRAINS/ HEC-RAS MODELING			
ENGINEERING/ SURVEYING APPROVAL	ALEX BLACK MICHA ZESCHKE	AB MZ	19/11/2018 19/11/2018

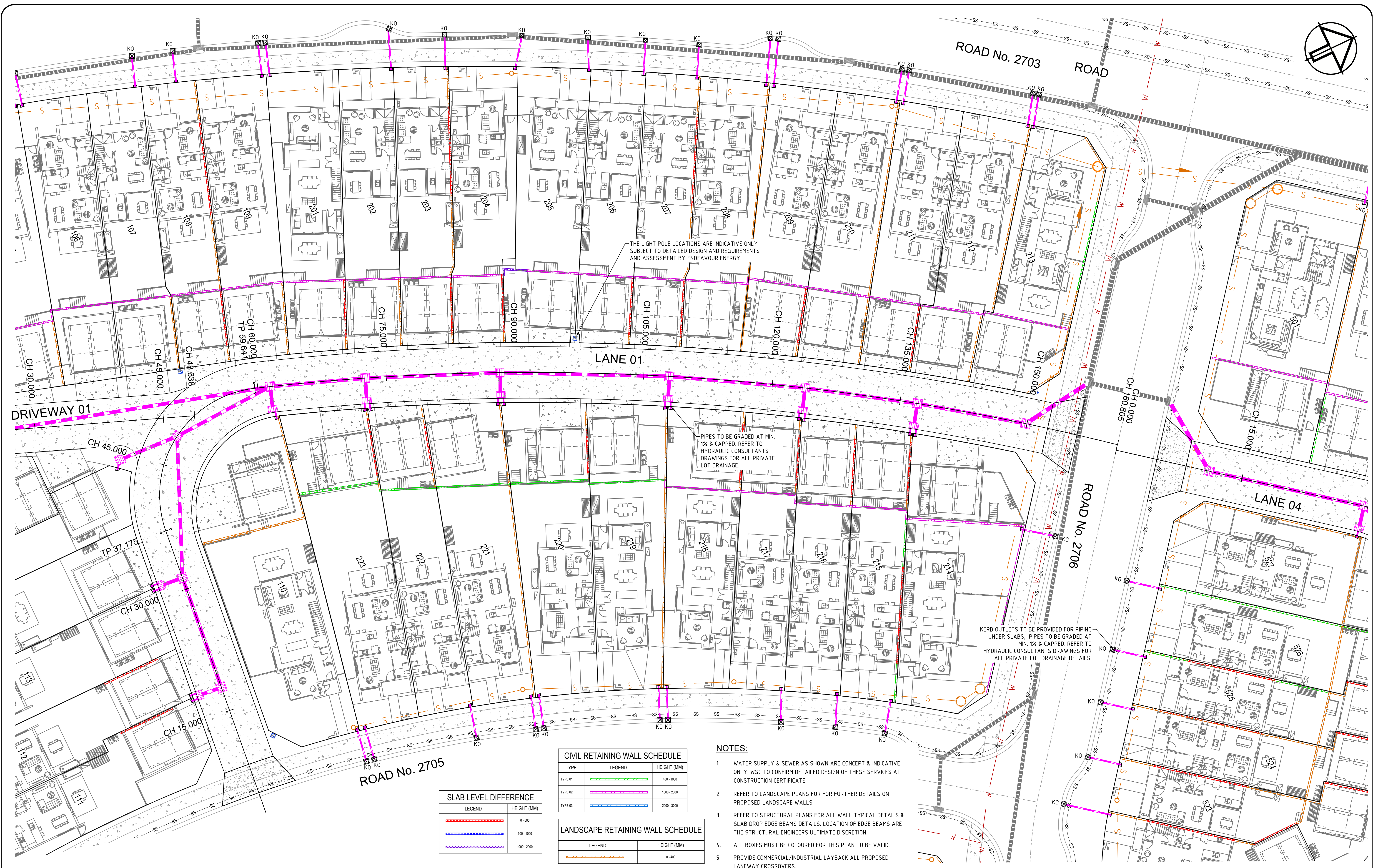


APPROVAL AUTHORITY	CAMDEN COUNCIL
CLIENT	VILLAWORLD
PROJECT	ARENA - STAGES 1 - 6

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DRAWING				CIVIL WORKS PLAN SHEET 1 OF 5	
PROJECT NUMBER	318028	DRAWING FILE	318028_04C_C200-C205.dwg	ORIGINAL	A1
SURVEY MARK		R.L.		DATUM	A.H.D.
IMAGE SOURCE				SET	04E
STATUS	FOR APPROVAL	SHEET	C200	OF	C502



THE LIGHT POLE LOCATIONS ARE INDICATIVE ONLY
SUBJECT TO DETAILED DESIGN AND REQUIREMENTS
AND ASSESSMENT BY ENDEAVOUR ENERGY.

PIPES TO BE GRADED AT MIN.
1% & CAPPED. REFER TO
HYDRAULIC CONSULTANTS
DRAWINGS FOR ALL PRIVATE
LOT DRAINAGE.

KERB OUTLETS TO BE PROVIDED FOR PIPING
UNDER SLABS; PIPES TO BE GRADED AT
MIN. 1% & CAPPED. REFER TO
HYDRAULIC CONSULTANTS DRAWINGS FOR
ALL PRIVATE LOT DRAINAGE DETAILS.

CIVIL RETAINING WALL SCHEDULE		
TYPE	LEGEND	HEIGHT (MM)
TYPE 01		400 - 1000
TYPE 02		1000 - 2000
TYPE 03		2000 - 3000

LANDSCAPE RETAINING WALL SCHEDULE	
LEGEND	HEIGHT (MM)
	0 - 400

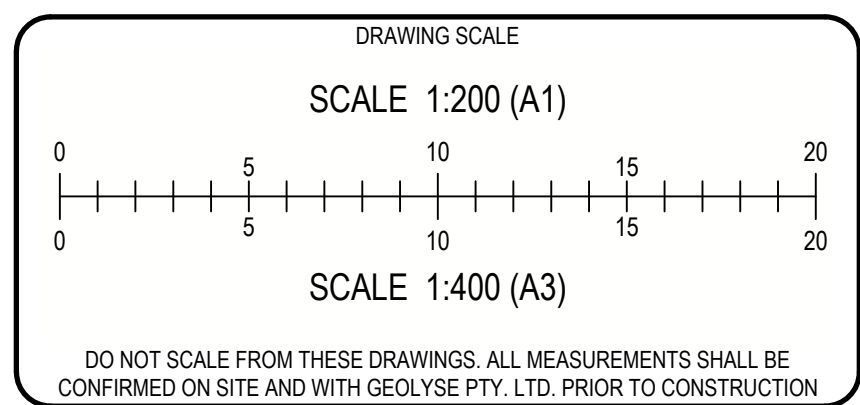
SLAB LEVEL DIFFERENCE	
LEGEND	HEIGHT (MM)
	0 - 600
	600 - 1000
	1000 - 2000

NOTES:

- WATER SUPPLY & SEWER AS SHOWN ARE CONCEPT & INDICATIVE ONLY. WSC TO CONFIRM DETAILED DESIGN OF THESE SERVICES AT CONSTRUCTION CERTIFICATE.
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REV.	DATE	DFTD.	APPD.	DETAILS
A	19/11/2018	KH	AB	ISSUED FOR DEVELOPMENT APPLICATION
B	06/12/2018	KH	AB	MINOR AMENDMENT & ISSUED FOR DEVELOPMENT APPLICATION
C	29/04/2019	KH	AB	ISSUED FOR DA - COUNCIL RFI 01
D	17/09/2019	NTT	AB	ISSUED FOR DA - COUNCIL RFI 02

FILE	INITIALS	DATE
SURVEY	JMD Surveyor	- APRIL 2013
DESIGN	Tranche_27_Stages_01-06.project	AB APRIL 2018
DRAINS/ HEC-RAS MODELING		
ENGINEERING/ SURVEYING APPROVAL	ALEX BLACK MICHA ZESCHKE	AB 19/11/2018 MZ 19/11/2018



APPROVAL AUTHORITY	CAMDEN COUNCIL
CLIENT	VILLAWORLD
PROJECT	ARENA - STAGES 1 - 6

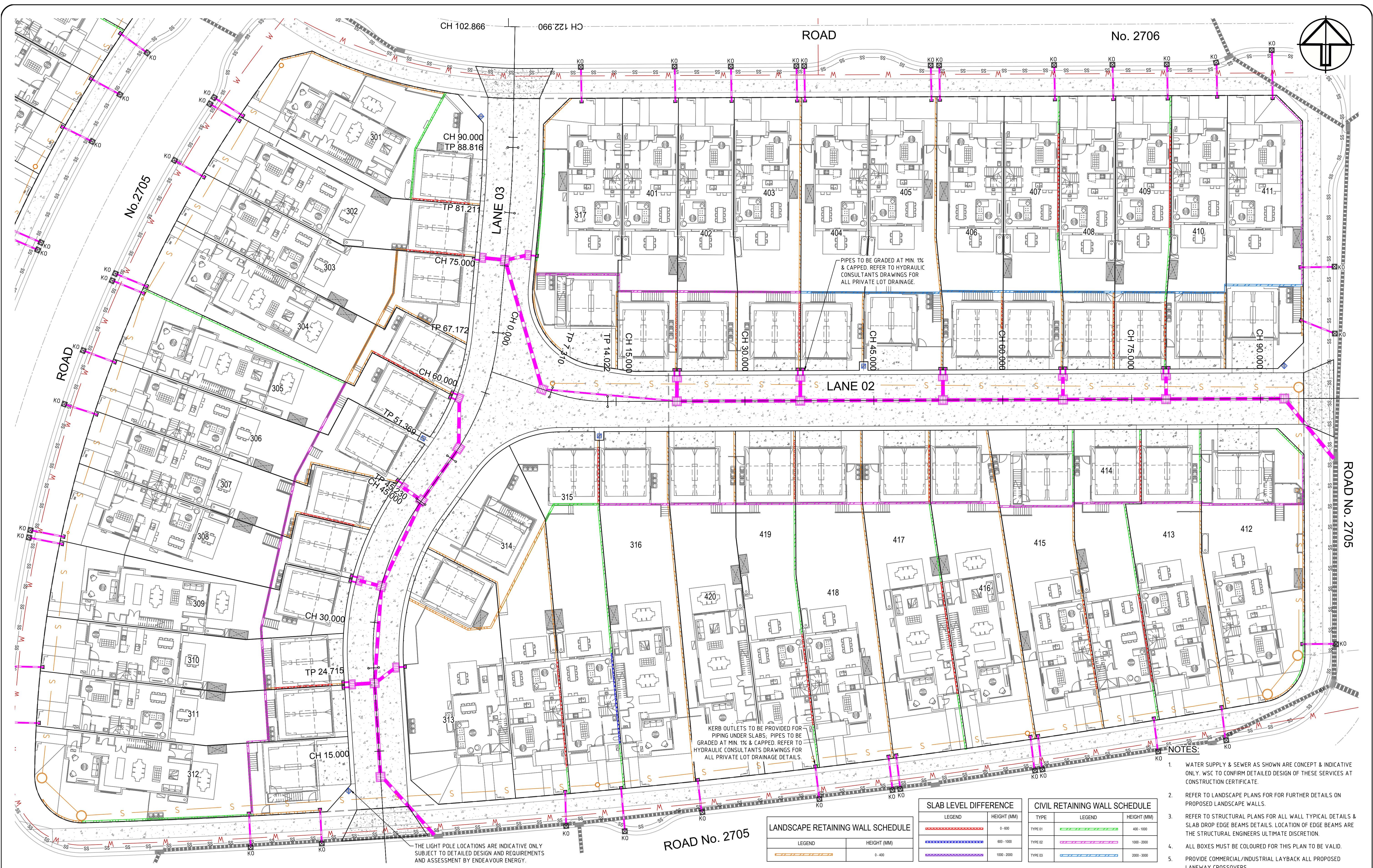
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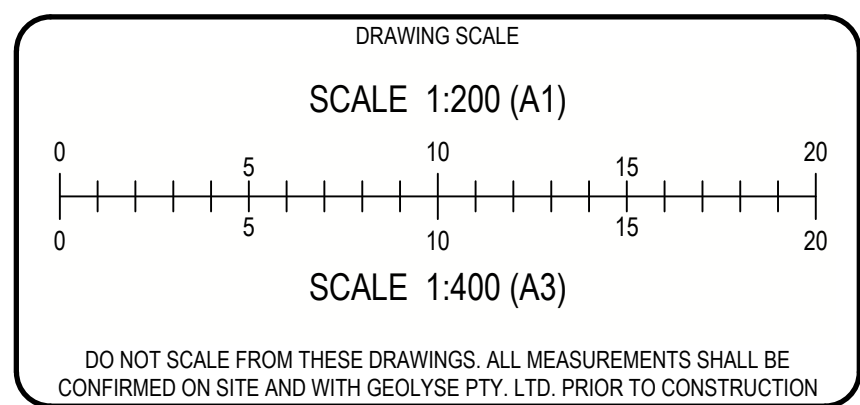
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DRAWING				CIVIL WORKS PLAN SHEET 2 OF 5	
PROJECT NUMBER	318028	DRAWING FILE	318028_04C_C200-C205.dwg	ORIGINAL	A1
SURVEY MARK		R.L.		DATUM	A.H.D.
IMAGE SOURCE				SET	04D
STATUS FOR APPROVAL		SHEET	C201	OF	C502



REV.	DATE	DFTD.	APPD.	DETAILS
A	19/11/2018	KH	AB	ISSUED FOR DEVELOPMENT APPLICATION
B	06/12/2018	KH	AB	MINOR AMENDMENT & ISSUED FOR DEVELOPMENT APPLICATION
C	29/04/2019	KH	AB	ISSUED FOR DA - COUNCIL RFI 01
D	17/09/2019	NTT	AB	ISSUED FOR DA - COUNCIL RFI 02

FILE	INITIALS	DATE
SURVEY	JMD Surveyor	- APRIL 2013
DESIGN	Tranche_27_Stages_01-06.project	AB APRIL 2018
DRAINS/ HEC-RAS MODELING		
ENGINEERING/ SURVEYING APPROVAL	ALEX BLACK MICHA ZESCHKE	AB 19/11/2018 MZ 19/11/2018



APPROVAL AUTHORITY	CAMDEN COUNCIL
CLIENT	VILLAWORLD
PROJECT	ARENA - STAGES 1 - 6

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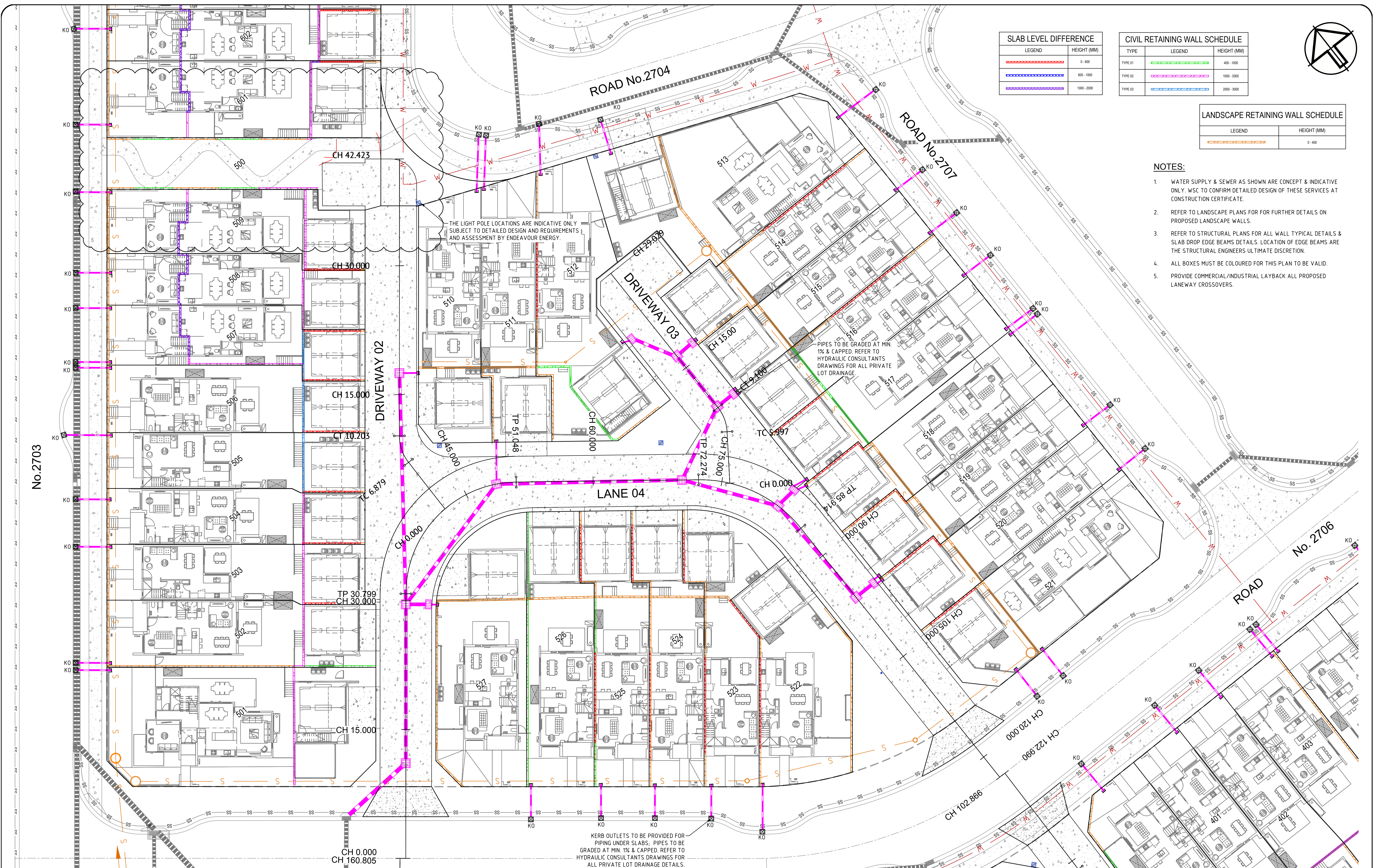
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CIVIL WORKS PLAN SHEET 3 OF 5			
PROJECT NUMBER	318028	DRAWING FILE	318028_04C_C200-C205.dwg
SURVEY MARK	R.L.	DATUM	A.H.D.
IMAGE SOURCE	-		
STATUS	FOR APPROVAL	SHEET	C202 OF C502
			04D

- NOTES:
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 - PROVIDE COMMERCIAL/INDUSTRIAL LAYBACK ALL PROPOSED LANEWAY CROSSOVERS.

LANDSCAPE RETAINING WALL SCHEDULE	
LEGEND	HEIGHT (MM)
	0 - 400

SLAB LEVEL DIFFERENCE	
LEGEND	HEIGHT (MM)
	0 - 600
	600 - 1000
	1000 - 2000

CIVIL RETAINING WALL SCHEDULE	
TYPE	LEGEND
TYPE 01	
TYPE 02	
TYPE 03	



SLAB LEVEL DIFFERENCE	
LEGEND	HEIGHT (MM)
	0 - 600
	600 - 1000
	1000 - 2000

CIVIL RETAINING WALL SCHEDULE		
TYPE	LEGEND	HEIGHT (MM)
TYPE 01		400 - 1000
TYPE 02		1000 - 2000
TYPE 03		2000 - 3000

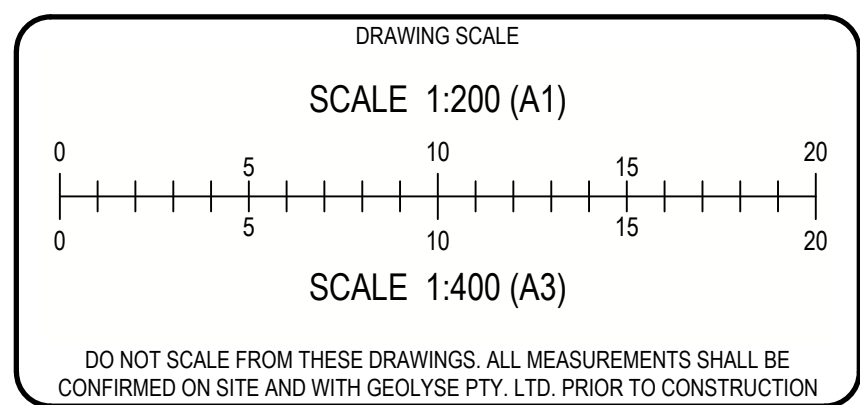
LANDSCAPE RETAINING WALL SCHEDULE	
LEGEND	HEIGHT (MM)
	0 - 400

NOTES:

1. WATER SUPPLY & SEWER AS SHOWN ARE CONCEPT & INDICATIVE ONLY. WSC TO CONFIRM DETAILED DESIGN OF THESE SERVICES AT CONSTRUCTION CERTIFICATE.
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4. ALL BOXES MUST BE COLOURED FOR THIS PLAN TO BE VALID.
5. PROVIDE COMMERCIAL/INDUSTRIAL LAYBACK ALL PROPOSED LANEWAY CROSSOVERS.

REV.	DATE	DFTD.	APPD.	DETAILS
A	19/11/2018	KH	AB	ISSUED FOR DEVELOPMENT APPLICATION
B	06/12/2018	KH	AB	MINOR AMENDMENT & ISSUED FOR DEVELOPMENT APPLICATION
C	29/04/2019	KH	AB	ISSUED FOR DA - COUNCIL RFI 01
D	17/09/2019	NTT	AB	ISSUED FOR DA - COUNCIL RFI 02
E	25/10/2019	NTT	AB	PATHWAY AMENDED

FILE	INITIALS	DATE
SURVEY	JMD Surveyor	- APRIL 2013
DESIGN	Tranche_27_Stages_01-06.project	AB APRIL 2018
DRAINS/ HEC-RAS MODELING		
ENGINEERING/ SURVEYING APPROVAL	ALEX BLACK MICHA ZESCHKE	AB 19/11/2018 MZ 19/11/2018

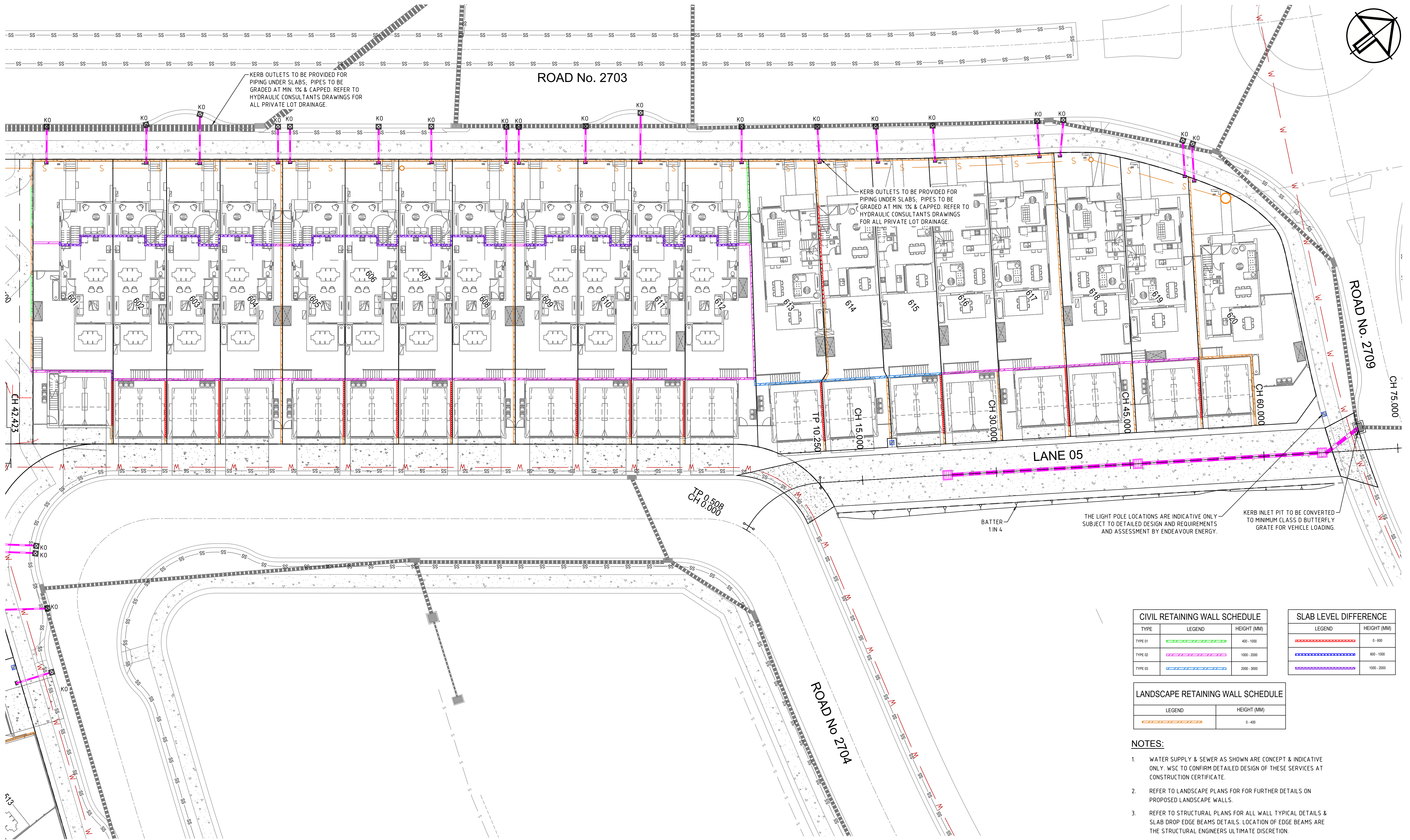


APPROVAL AUTHORITY	CAMDEN COUNCIL
CLIENT	VILLAWORLD
PROJECT	ARENA - STAGES 1 - 6

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oranpark@geolyse.com
www.geolyse.com

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ORAN PARK, NSW 2570
Ph. (02) 4632 6500

DRAWING CIVIL WORKS PLAN SHEET 4 OF 5			
PROJECT NUMBER	318028	DRAWING FILE	318028_04C_C200-C205.dwg
SURVEY MARK		R.L.	DATUM A.H.D.
IMAGE SOURCE			
STATUS	FOR APPROVAL	SHEET	C203 OF C502
			04E



CIVIL RETAINING WALL SCHEDULE		
TYPE	LEGEND	HEIGHT (MM)
TYPE 01		400 - 1000
TYPE 02		1000 - 2000
TYPE 03		2000 - 3000

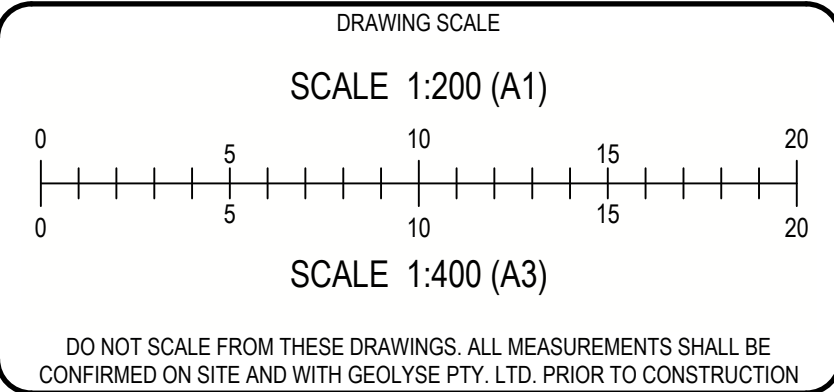
SLAB LEVEL DIFFERENCE	
LEGEND	HEIGHT (MM)
	0 - 600
	600 - 1000
	1000 - 2000

LANDSCAPE RETAINING WALL SCHEDULE	
LEGEND	HEIGHT (MM)
	0 - 400

- NOTES:**
1. WATER SUPPLY & SEWER AS SHOWN ARE CONCEPT & INDICATIVE ONLY. WSC TO CONFIRM DETAILED DESIGN OF THESE SERVICES AT CONSTRUCTION CERTIFICATE.
 2. REFER TO LANDSCAPE PLANS FOR FURTHER DETAILS ON PROPOSED LANDSCAPE WALLS.
 3. REFER TO STRUCTURAL PLANS FOR ALL WALL TYPICAL DETAILS & SLAB DROP EDGE BEAMS DETAILS. LOCATION OF EDGE BEAMS ARE THE STRUCTURAL ENGINEERS ULTIMATE DISCRETION.
 4. ALL BOXES MUST BE COLOURED FOR THIS PLAN TO BE VALID.
 5. PROVIDE COMMERCIAL/INDUSTRIAL LAYBACK ALL PROPOSED LANEWAY CROSSOVERS.

REV.	DATE	DFTD.	APPD.	DETAILS
A	19/11/2018	KH	AB	ISSUED FOR DEVELOPMENT APPLICATION
B	06/12/2018	KH	AB	MINOR AMENDMENT & ISSUED FOR DEVELOPMENT APPLICATION
C	29/04/2019	KH	AB	ISSUED FOR DA - COUNCIL RF1 01
D	17/09/2019	NTT	AB	ISSUED FOR DA - COUNCIL RF1 02

	FILE	INITIALS	DATE
SURVEY	JMD Surveyor	-	APRIL 2013
DESIGN	Tranche_27_Stages_01-06.project	AB	APRIL 2018
DRAINS/ HEC-RAS MODELLING			
ENGINEERING/ SURVEYING APPROVAL	ALEX BLACK MICHA ZESCHKE	AB MZ	19/11/2018 19/11/2018

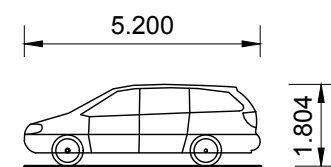
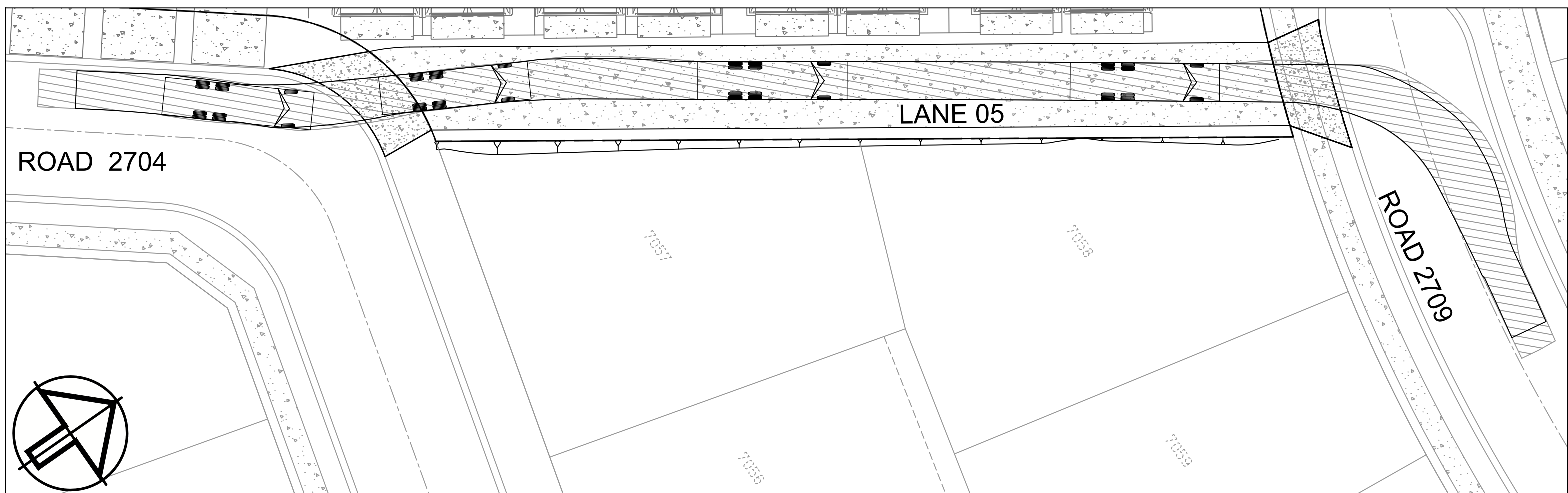
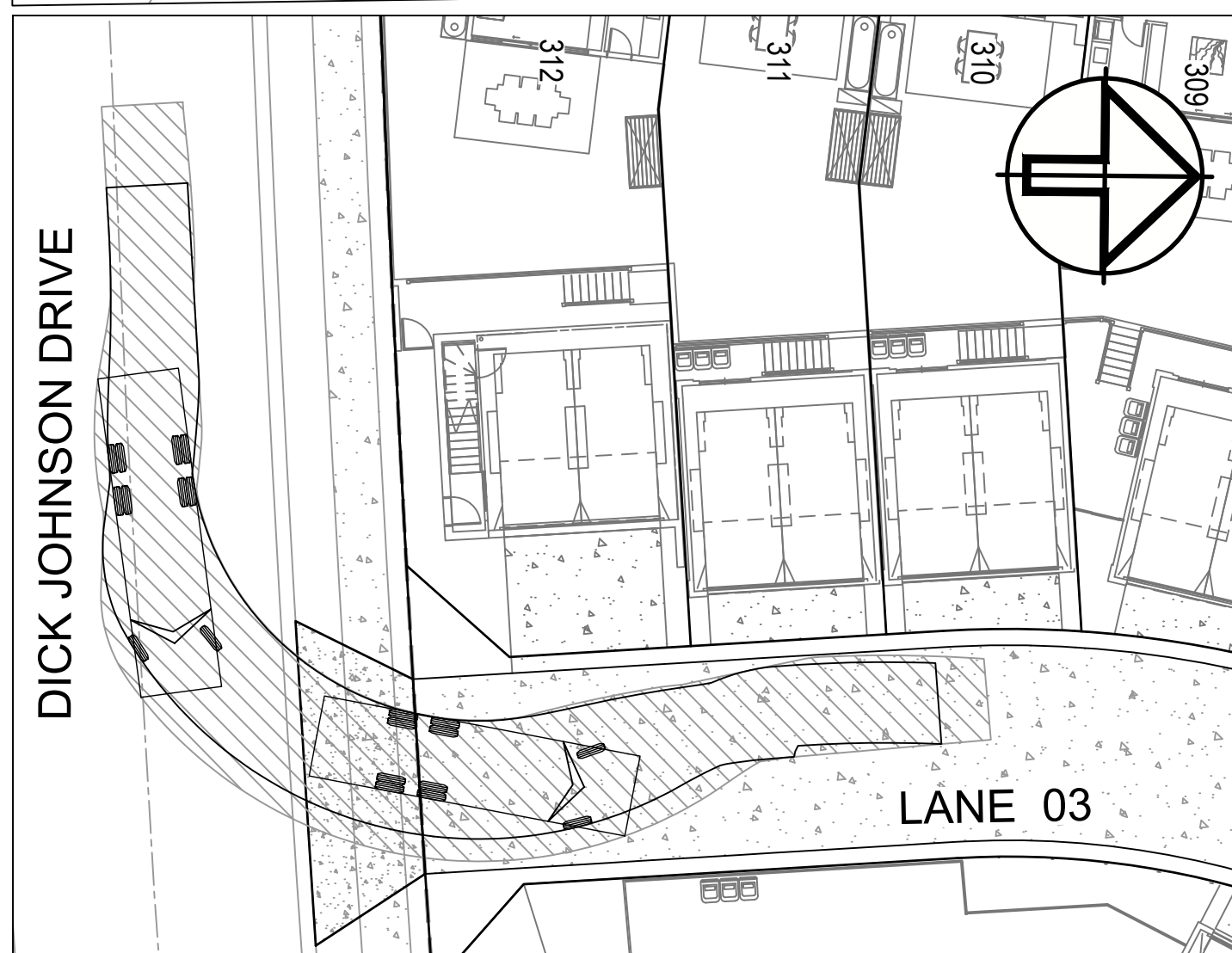
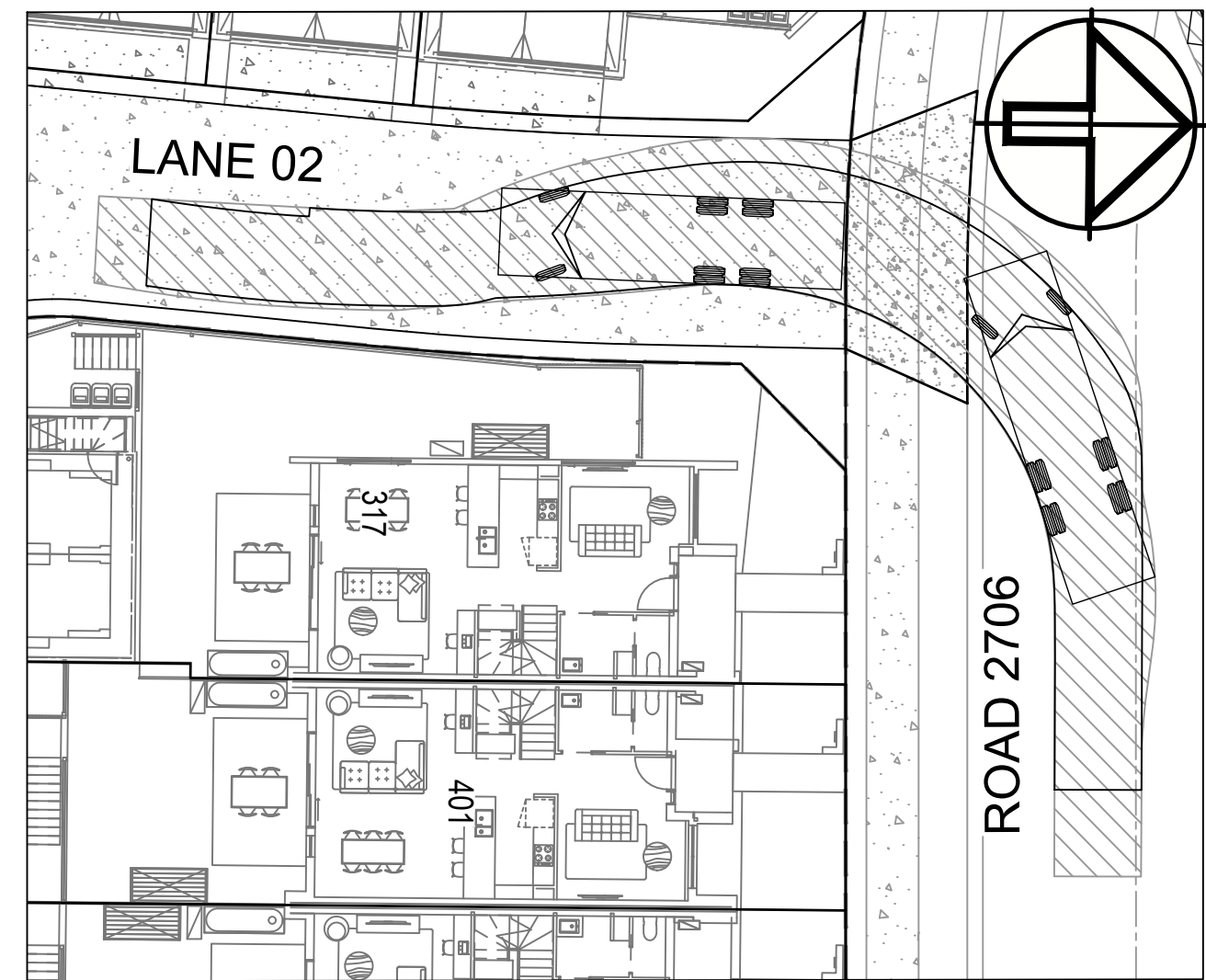
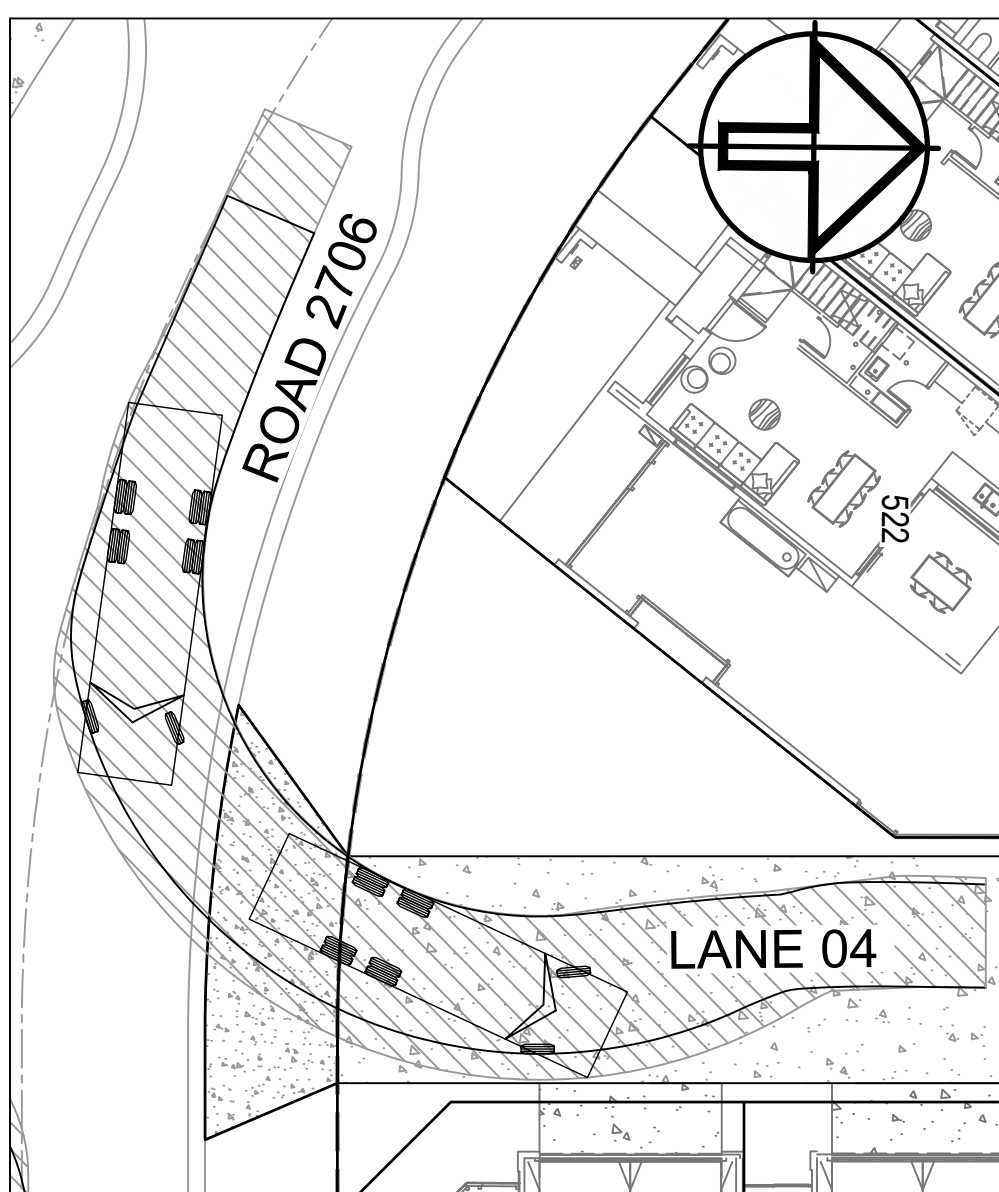
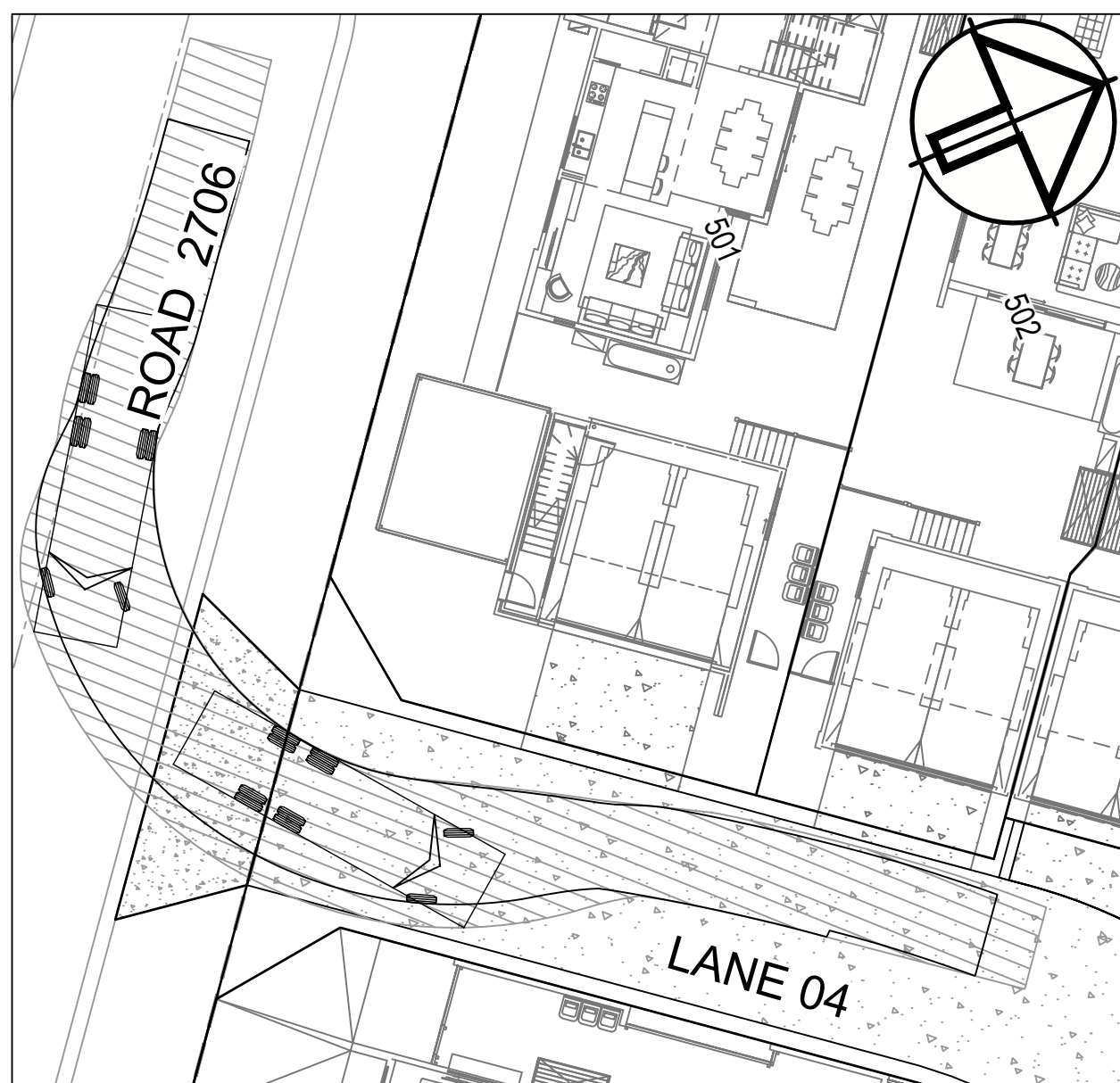
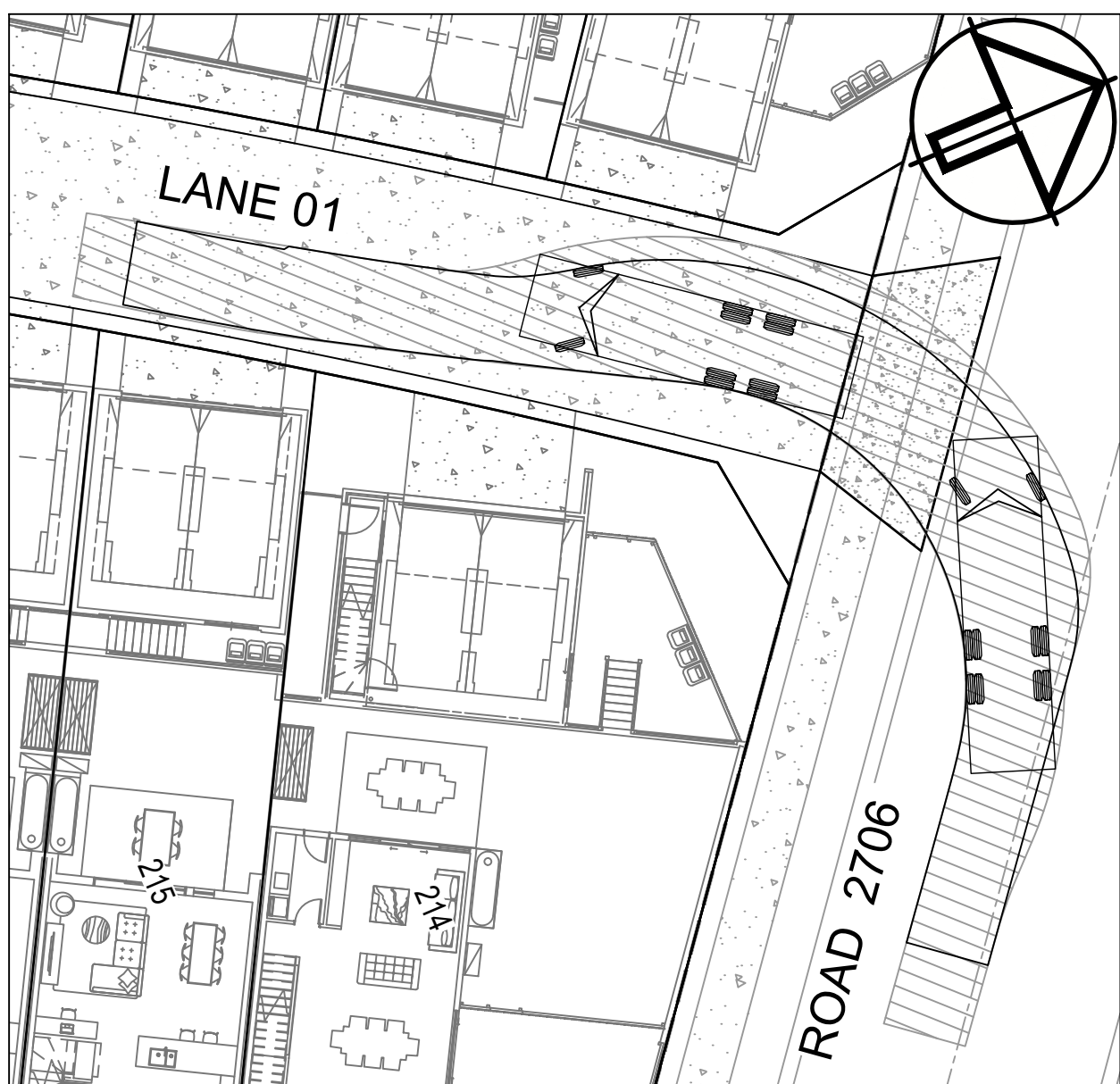
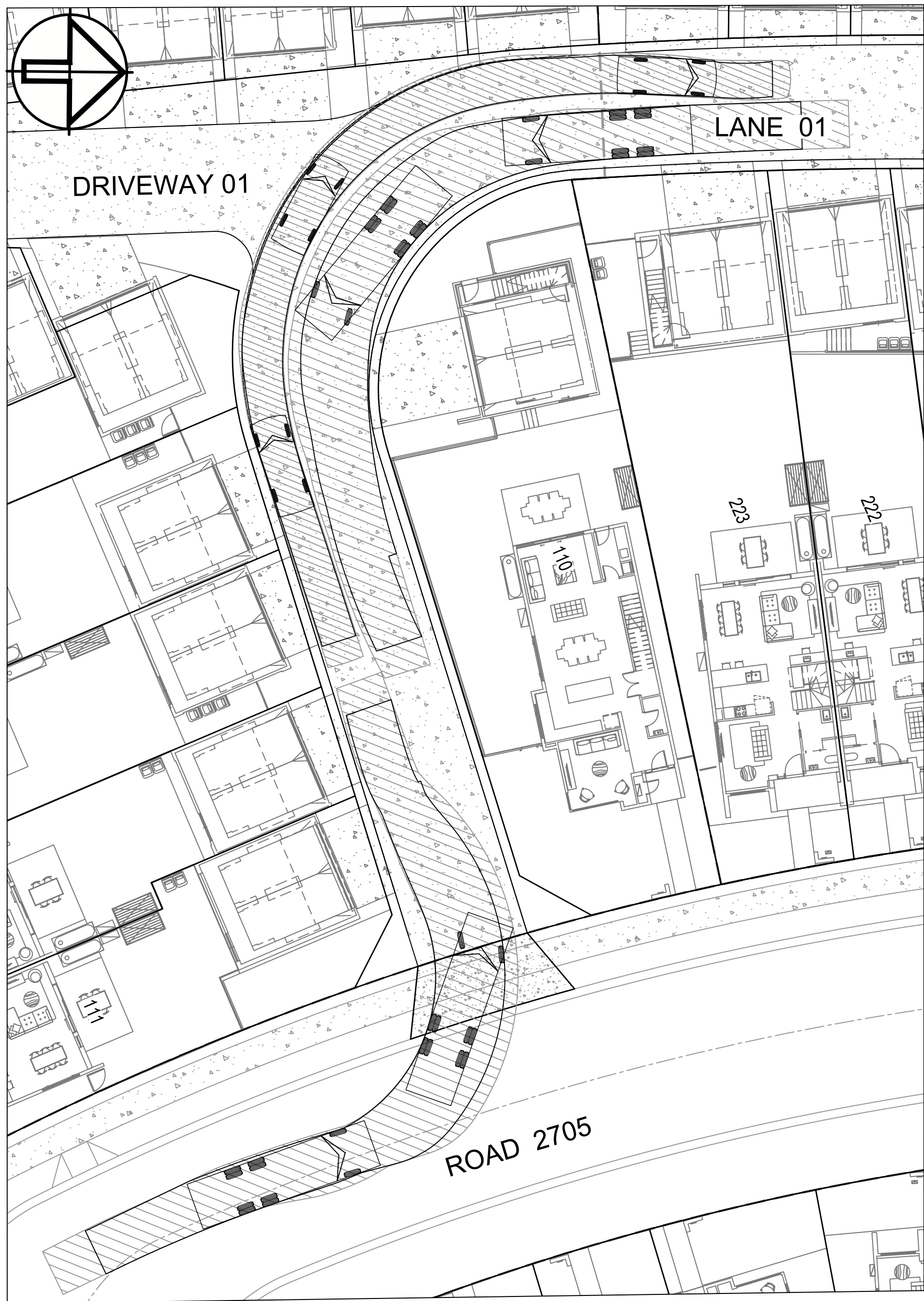


APPROVAL AUTHORITY	CAMDEN COUNCIL
CLIENT	VILLAWORLD
PROJECT	ARENA - STAGES 1 - 6

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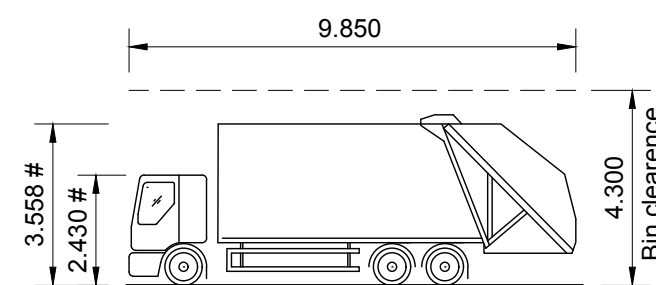
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DRAWING				CIVIL WORKS PLAN SHEET 5 OF 5	
PROJECT NUMBER	318028	DRAWING FILE	318028_04C_C200-C205.dwg	ORIGINAL	A1
SURVEY MARK		R.L.		DATUM	A.H.D.
IMAGE SOURCE				SET	04D
STATUS	FOR APPROVAL	SHEET	C204	OF	C502



Passenger vehicle (5.2 m):
(n.t.s.)
Overall Length 5.200m
Overall Width 1.940m
Overall Body Height 1.804m
Min Body Ground Clearance 0.295m
Track Width 1.840m
Turning Circle 12.600m

DESIGN VEHICLE



Typical Council Garbage Truck:
(n.t.s.)
Overall Length 9.85m
Overall Width 2.50m
Overall Body Height 4.30m
Min Body Ground Clearance 0.150m
Track Width 2.50m
Turning Circle 25.00m

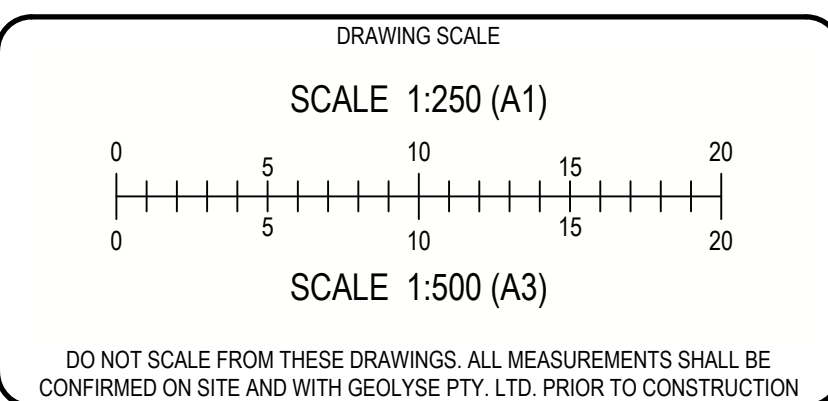
CHECKING VEHICLE

NOTES:

- ALL PROPOSED BIN PAD LOCATIONS HAVE BEEN CHECKED FOR TRUCK SERVICEABILITY WITH TRUCK SWING ARM DIMENSIONS AS PRESCRIBED BY CAMDEN COUNCIL

REV.	DATE	DFTD.	APPD.	DETAILS
A	19/11/2018	KH	AB	ISSUED FOR DEVELOPMENT APPLICATION
B	29/04/2019	KH	AB	ISSUED FOR DA - COUNCIL RFI 01
C	17/09/2019	NTT	AB	ISSUED FOR DA - COUNCIL RFI 02

FILE	INITIALS	DATE
SURVEY	JMD Surveyor	- APRIL 2013
DESIGN	Tranche_27_Stages_01-06.project	AB APRIL 2018
DRAINS/ HEC-RAS MODELLING	-	-
ENGINEERING/ SURVEYING APPROVAL	ALEX BLACK MICHA ZESCHKE	AB 19/11/2018 MZ 19/11/2018



APPROVAL AUTHORITY	CAMDEN COUNCIL
CLIENT	VILLAWORLD
PROJECT	ARENA - STAGES 1 - 6

GEOLYSE

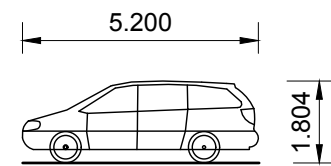
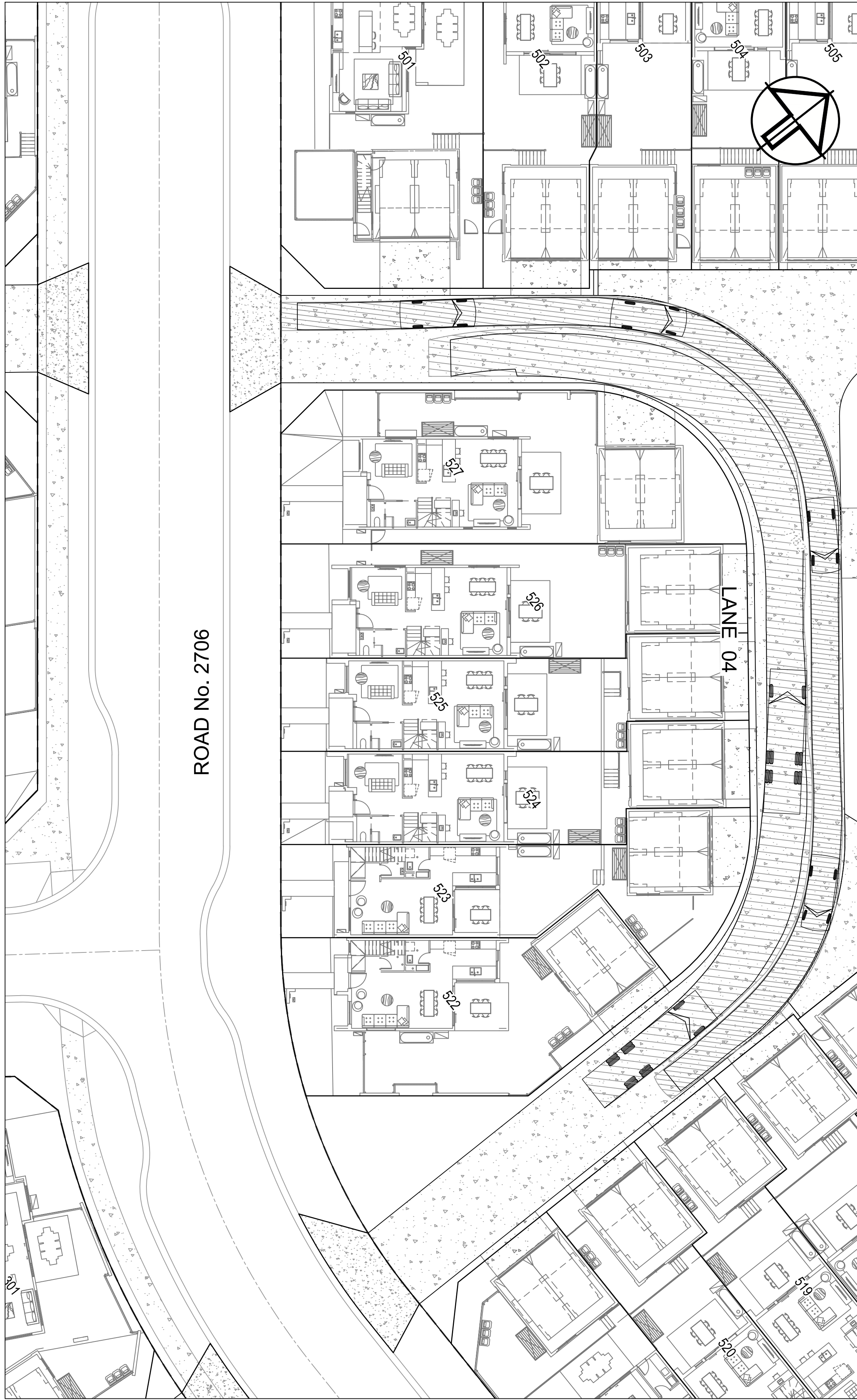
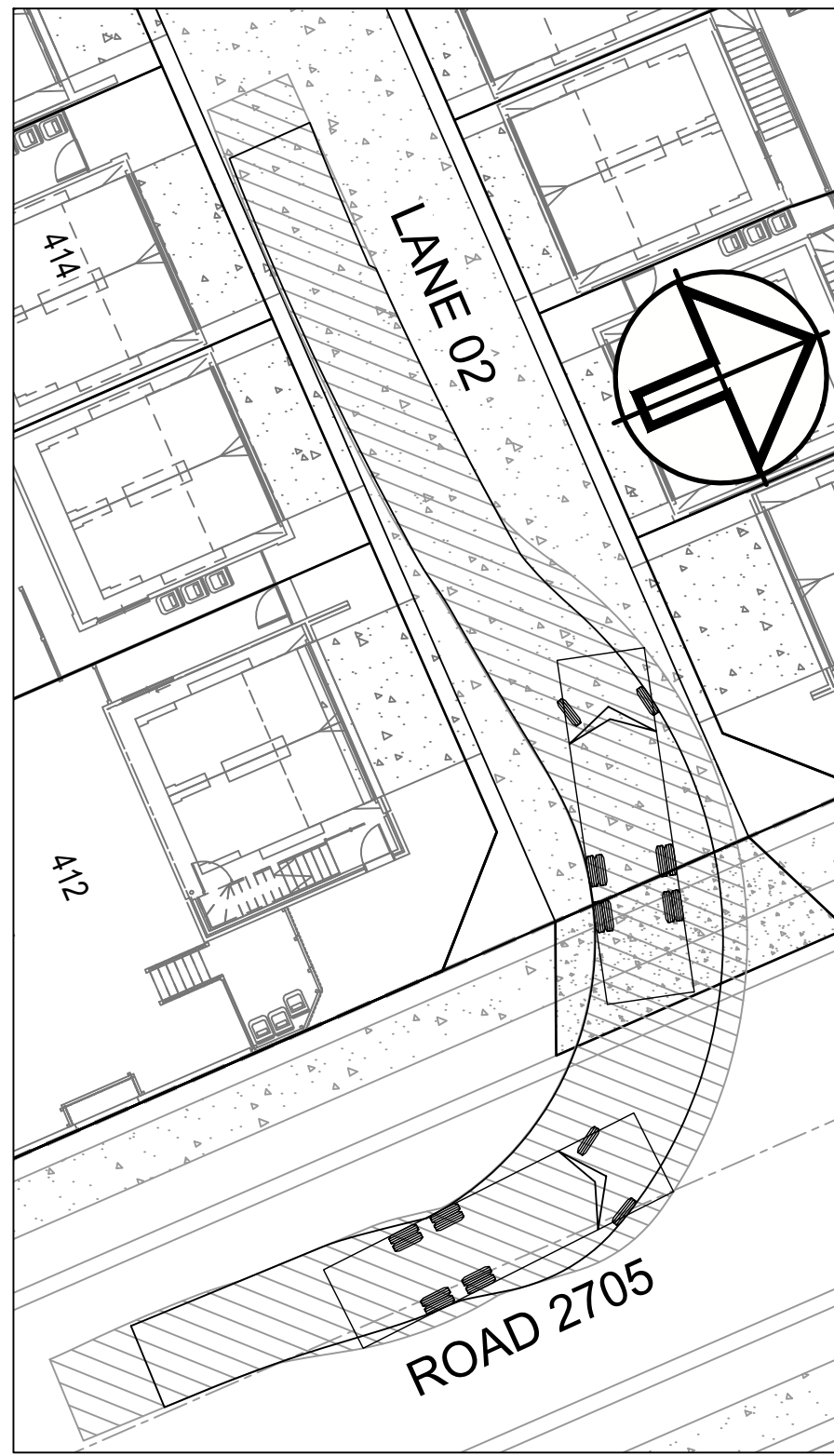
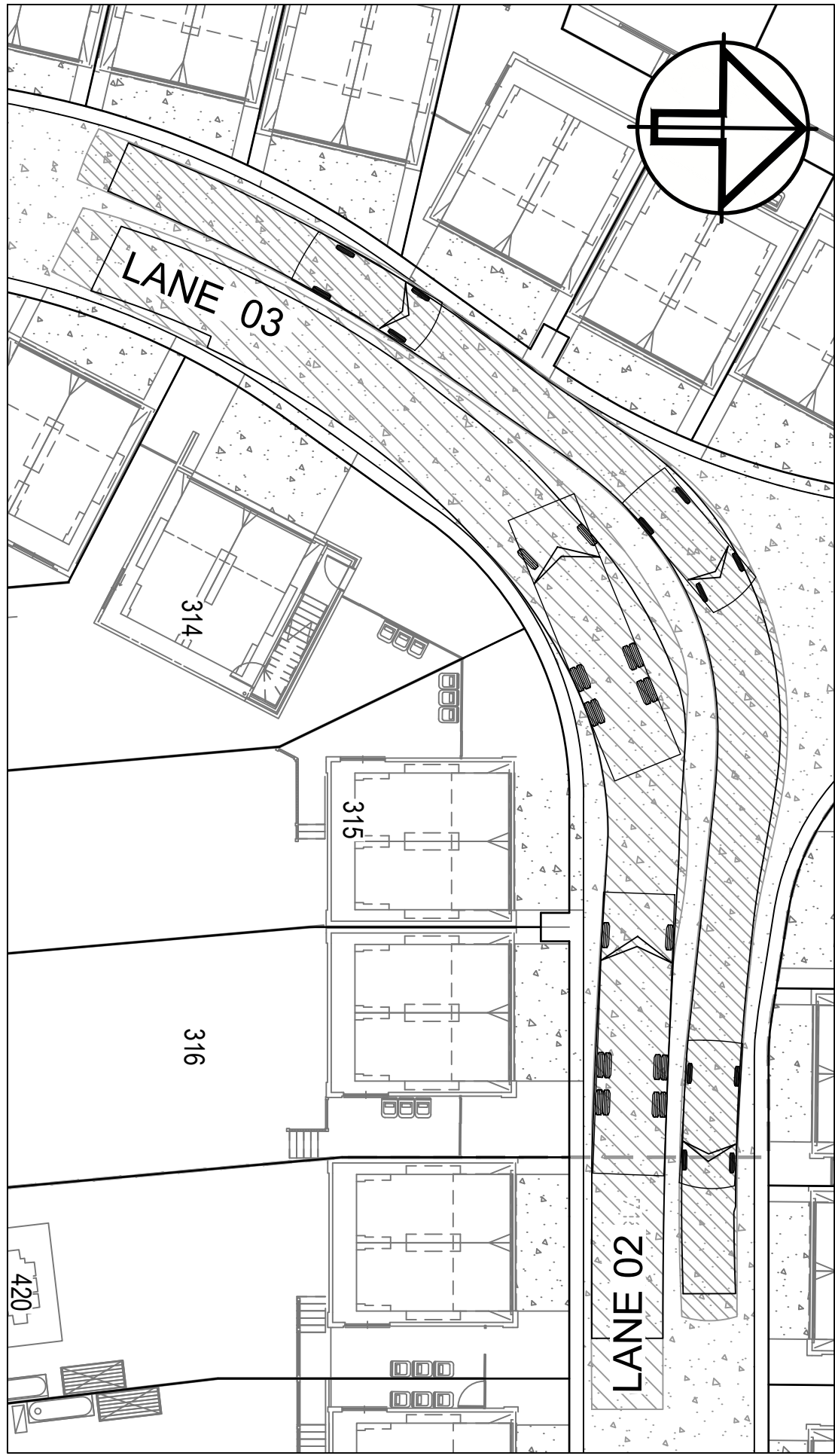
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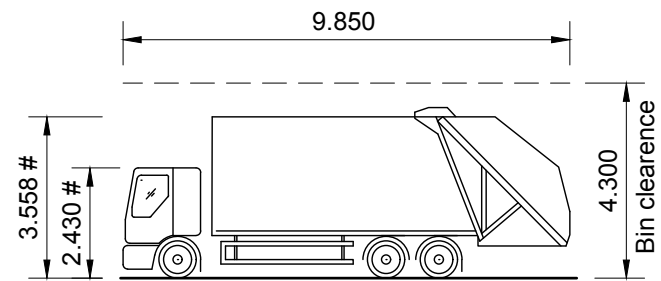
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DRAWING			
TURNING PATH PLAN SHEET 1 OF 3			
PROJECT NUMBER 318028	DRAWING FILE 318028_04B_C300-C302.dwg	ORIGINAL	A1
SURVEY MARK	R.L.	DATUM A.H.D.	SET
IMAGE SOURCE -			
STATUS FOR APPROVAL	SHEET C300 OF C502	04C	



Passenger vehicle (5.2 m):
(n.t.s.)
Overall Length 5.200m
Overall Width 1.940m
Overall Body Height 1.804m
Min Body Ground Clearance 0.295m
Track Width 1.840m
Turning Circle 12.600m

DESIGN VEHICLE



Typical Council Garbage Truck:
(n.t.s.)
Overall Length 9.85m
Overall Width 2.50m
Overall Body Height 4.30m
Min Body Ground Clearance 0.150m
Track Width 2.50m
Turning Circle 25.00m

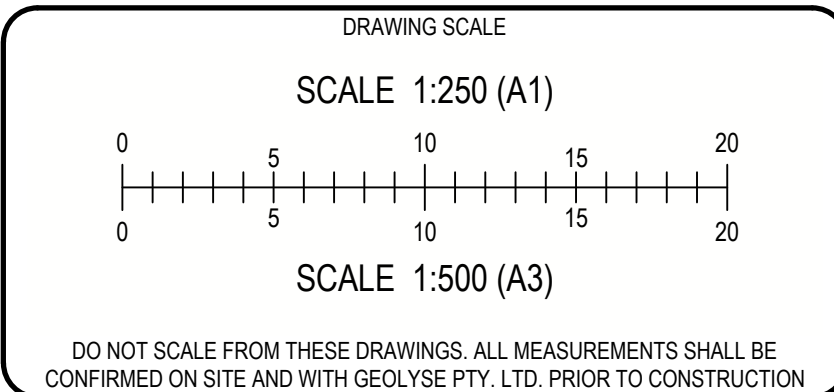
CHECKING VEHICLE

NOTES:

- ALL PROPOSED BIN PAD LOCATIONS HAVE BEEN CHECKED FOR TRUCK SERVICEABILITY WITH TRUCK SWING ARM DIMENSIONS AS PRESCRIBED BY CAMDEN COUNCIL

REV.	DATE	DFTD.	APPD.	DETAILS
A	19/11/2018	KH	AB	ISSUED FOR DEVELOPMENT APPLICATION
B	29/04/2019	KH	AB	ISSUED FOR DA - COUNCIL RFI 01

	FILE	INITIALS	DATE
SURVEY	JMD Surveyor	-	APRIL 2013
DESIGN	Tranche_27_Stages_01-06.project	AB	APRIL 2018
DRAINS/ HEC-RAS MODELLING	-	-	-
ENGINEERING/ SURVEYING APPROVAL	ALEX BLACK MICHA ZESCHKE	AB MZ	19/11/2018 19/11/2018



APPROVAL AUTHORITY	CAMDEN COUNCIL
CLIENT	VILLAWORLD
PROJECT	ARENA - STAGES 1 - 6

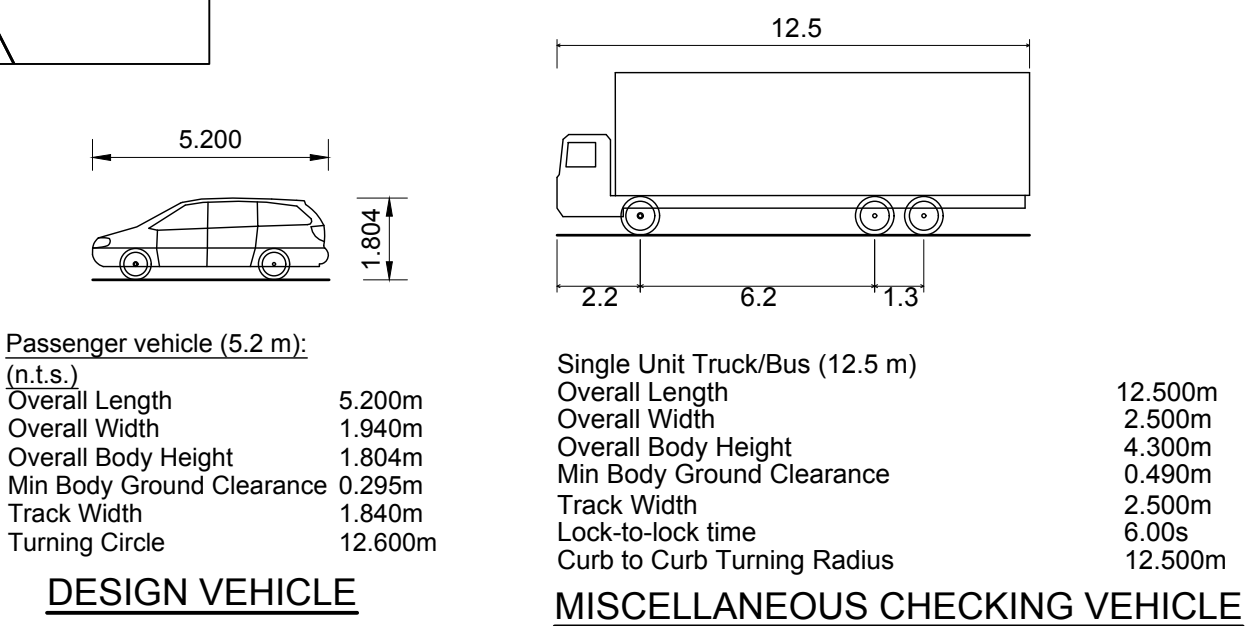
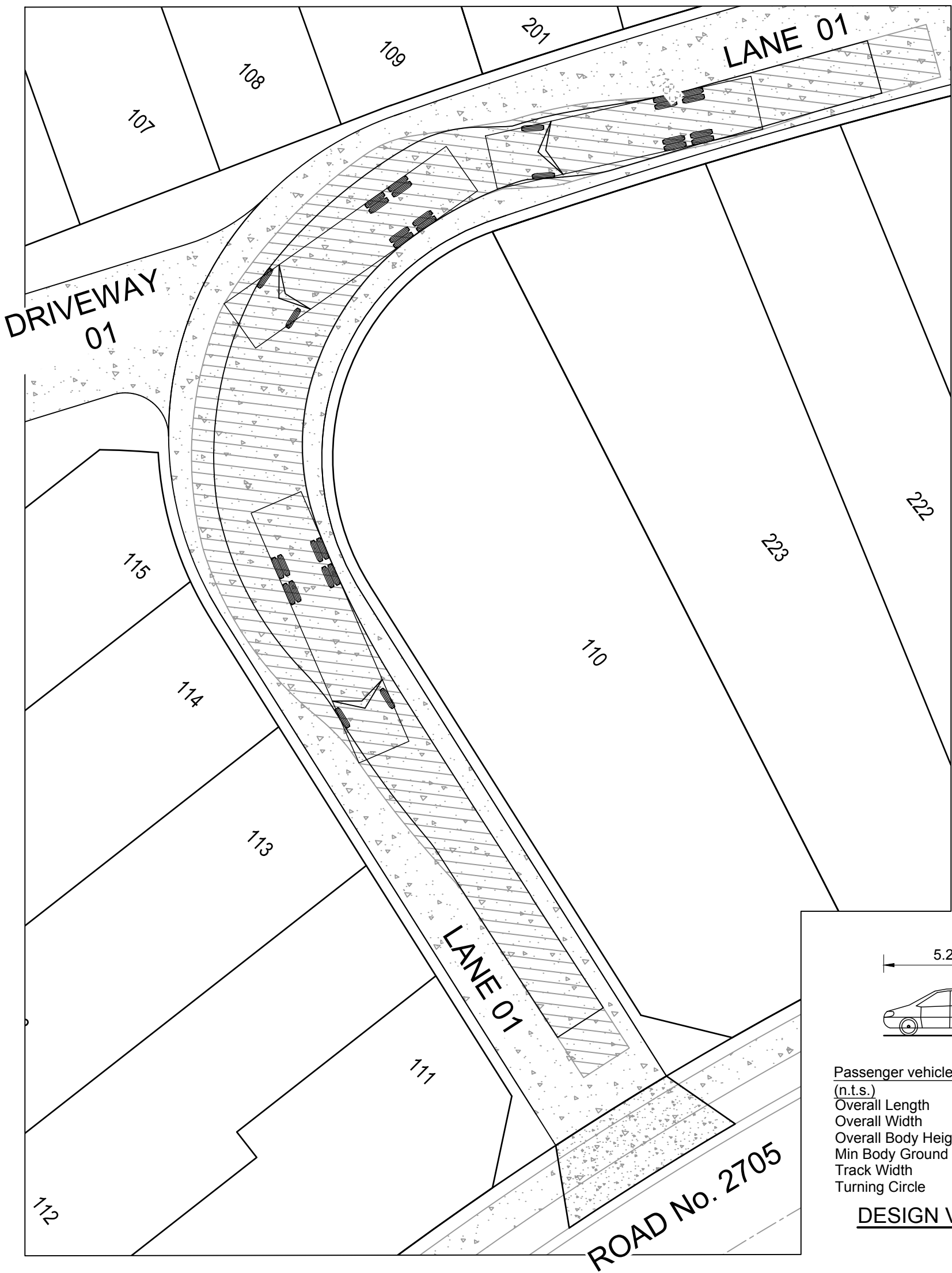
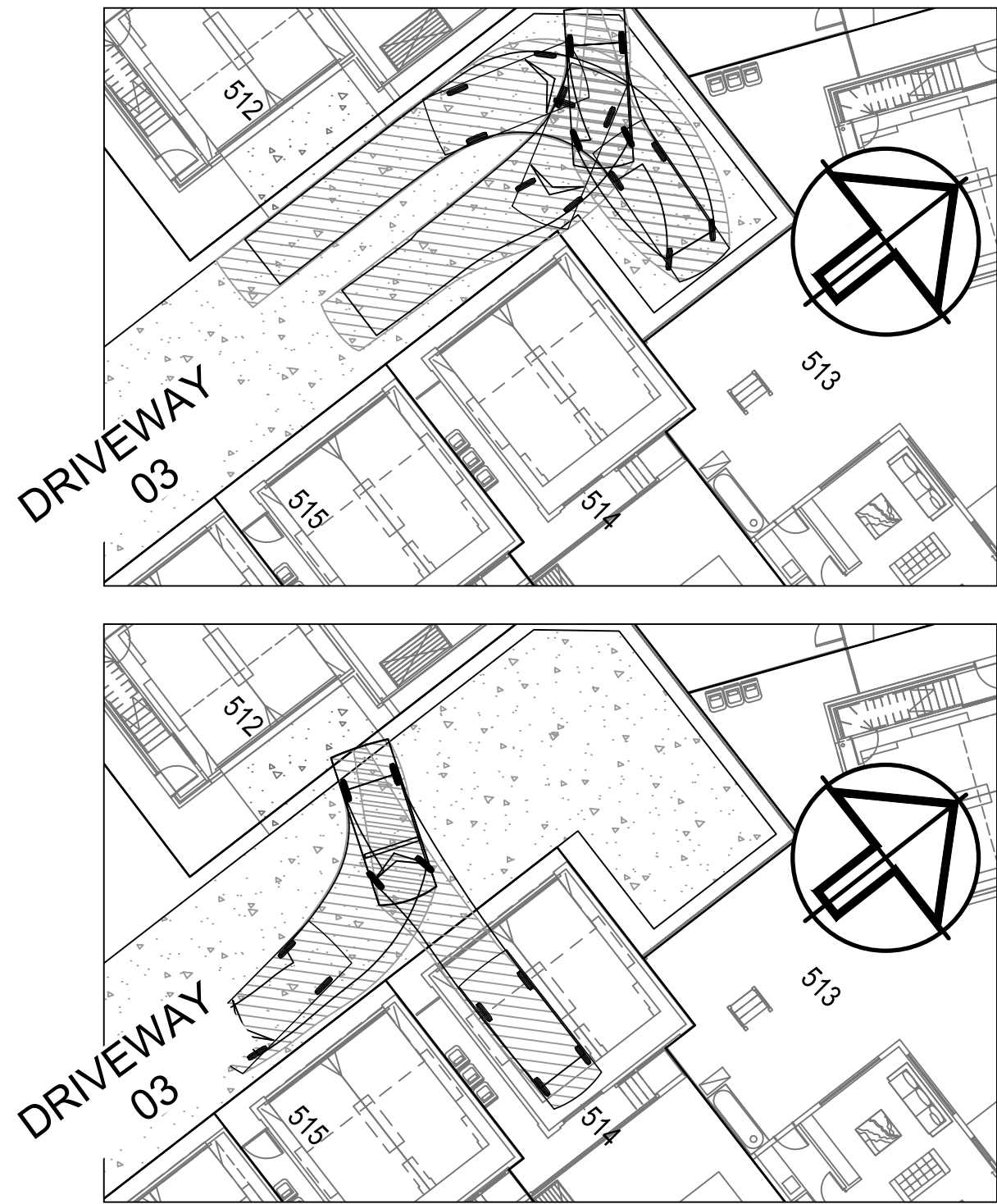
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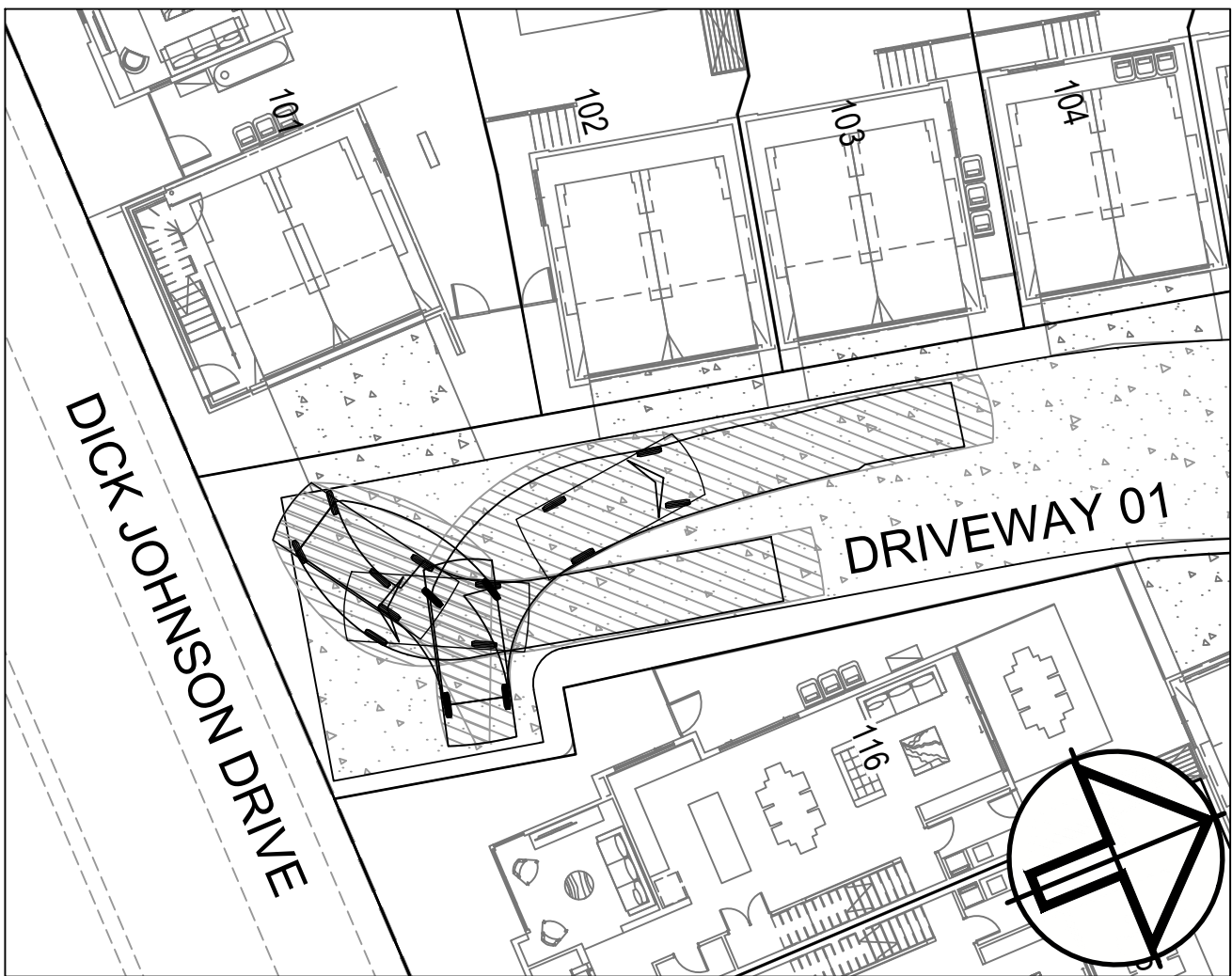
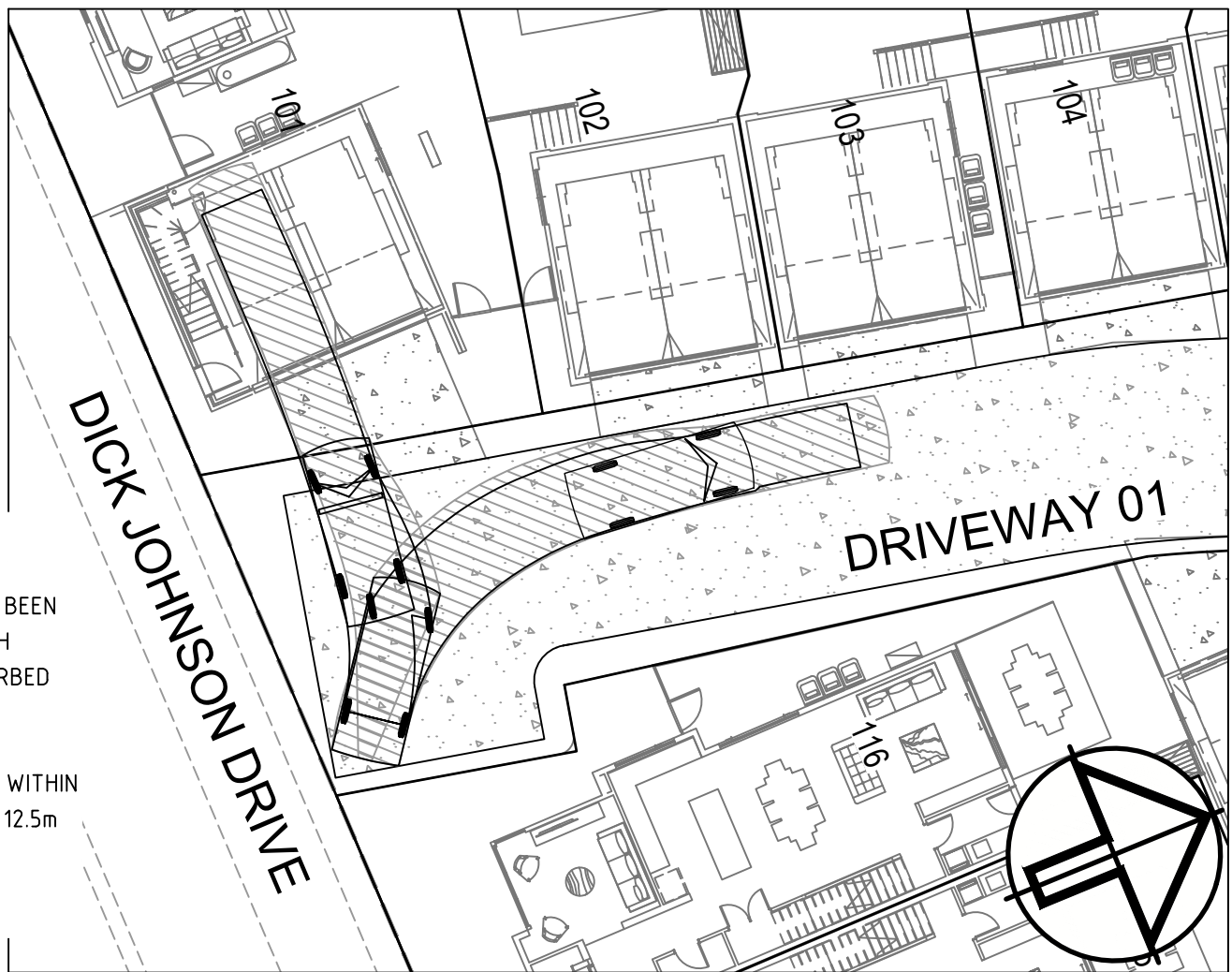
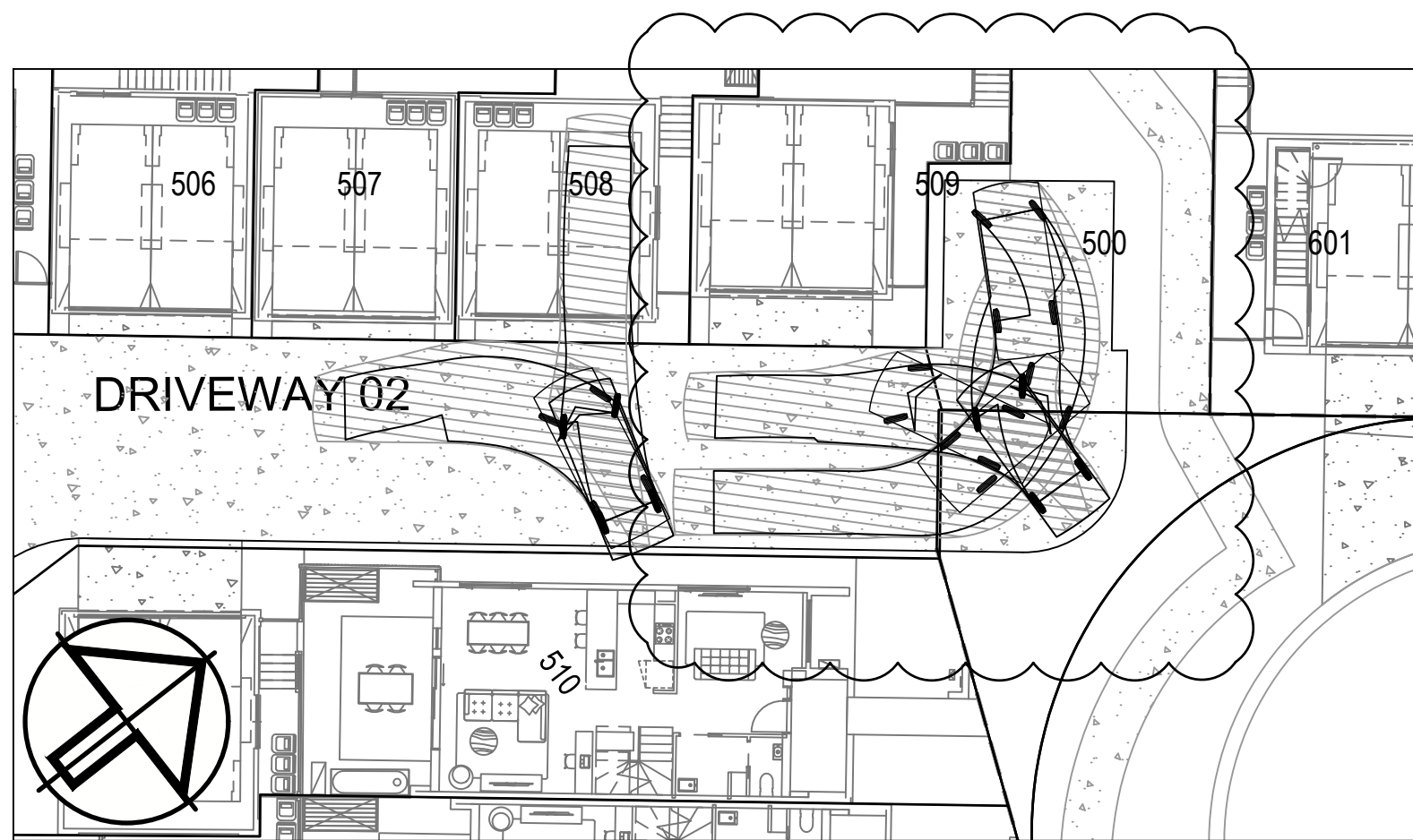
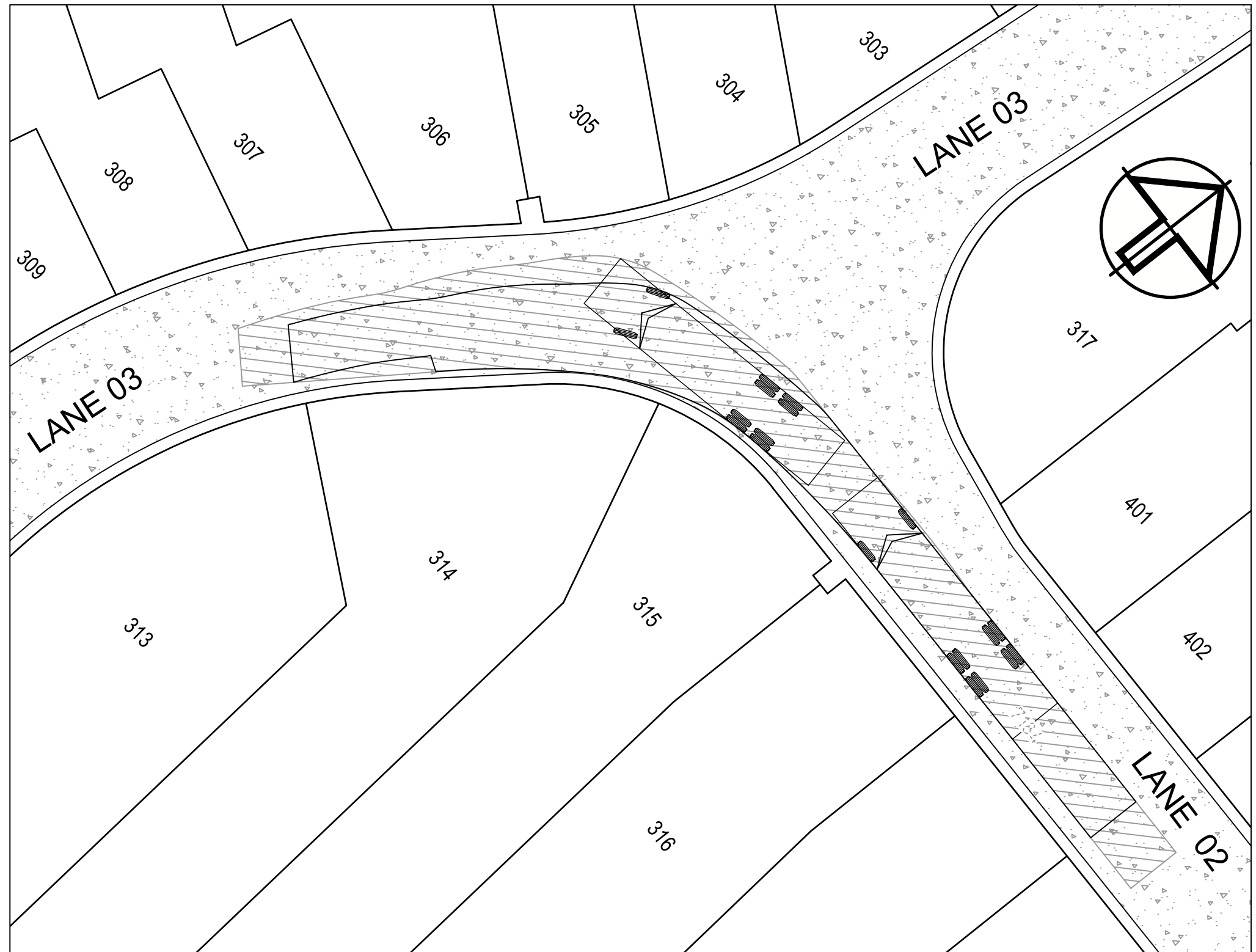
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DRAWING				
TURNING PATH PLAN SHEET 2 OF 3				
PROJECT NUMBER 318028		DRAWING FILE 318028_04B_C300-C302.dwg		ORIGINAL
SURVEY MARK		R.L.	DATUM A.H.D.	A1
IMAGE SOURCE -		SET		
STATUS FOR APPROVAL		SHEET C301	OF C502	04B



- NOTES:**
- ALL PROPOSED BIN PAD LOCATIONS HAVE BEEN CHECKED FOR TRUCK SERVICEABILITY WITH TRUCK SWING ARM DIMENSIONS AS PRESCRIBED BY CAMDEN COUNCIL.
 - MISCELLANEOUS CHECKING VEHICLE TO FIT WITHIN CARRIAGEWAY ONLY AS DEMONSTRATED. 12.5m RIGID TRUCK NOT REQUIRED TO FIT WITHIN LANEWAY "LANE" IN ACCORDANCE WITH AUSTRROADS STANDARDS.



LEGEND

EXISTING LEVEL
DESIGN LEVEL

HORIZONTAL CURVE RADIUS
VERTICAL CURVE LENGTH
VERTICAL GRADE

DATUM R.L. 81.000

CUT/FILL	0.000	95.582	95.415	-0.166
FINISHED SURFACE LEVEL	7.310	95.435	95.196	-0.239
NATURAL SURFACE LEVEL	14.022	95.279	94.995	-0.284
CHAINAGE	15.000	95.258	94.965	-0.292
	30.000	94.947	94.515	-0.432
	45.000	94.520	94.065	-0.454
	60.000	93.995	93.615	-0.379
	67.500	93.681	93.313	-0.369
	75.000	93.728	92.856	-0.372
	82.500	92.666	92.361	-0.306
	90.000	92.235	91.946	-0.290
	91.123	92.182	91.890	-0.292
	92.123	92.134	91.855	-0.279
	92.790	92.100	91.848	-0.252
	93.123	92.081	91.850	-0.232
	95.017	91.947	91.869	-0.078
	98.050	91.826	91.747	-0.078
	98.500	91.739	91.708	-0.031
	98.530	91.707	91.683	-0.025
	98.980	91.722	91.722	-0.000
	103.380	91.854	91.854	-0.000

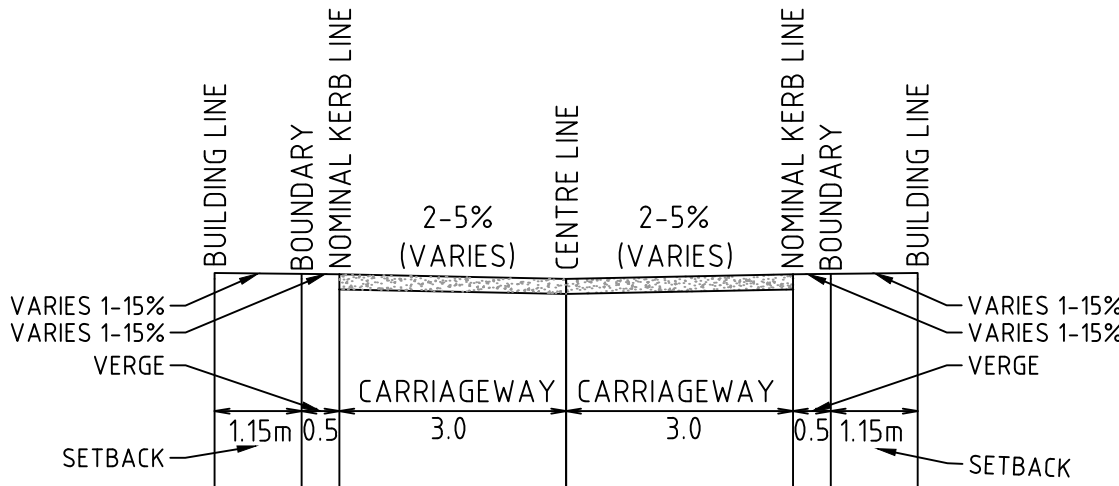
LONGITUDINAL SECTION - LANE 02

HORIZONTAL CURVE RADIUS
VERTICAL CURVE LENGTH
VERTICAL GRADE

DATUM R.L. 83.000

CUT/FILL	0.000	96.129	96.129	0.000
FINISHED SURFACE LEVEL	4.400	95.997	95.997	0.000
NATURAL SURFACE LEVEL	4.850	95.982	95.957	-0.025
CHAINAGE	4.880	96.011	95.983	-0.028
	5.330	96.100	96.022	-0.078
	8.466	96.226	96.148	-0.078
	11.466	96.215	96.227	0.012
	12.830	96.198	96.235	0.038
	14.466	96.173	96.223	0.050
	15.000	96.164	96.215	0.051
	30.000	95.787	95.990	0.203
	37.175	95.606	95.882	0.276
	45.000	95.400	95.765	0.365
	59.641	95.157	95.545	0.389
	60.000	95.156	95.540	0.384
	75.000	95.025	95.315	0.290
	90.000	94.860	95.090	0.230
	105.000	94.698	94.865	0.166
	106.547	94.678	94.842	0.164
	120.000	94.522	94.575	0.053
	124.047	94.420	94.470	0.050
	135.000	94.153	94.126	-0.027
	141.547	94.001	93.879	-0.122
	148.456	93.841	93.603	-0.238
	149.456	93.801	93.575	-0.226
	150.000	93.777	93.571	-0.206
	150.056	93.775	93.571	-0.204
	150.456	93.759	93.573	-0.186
	152.457	93.671	93.593	-0.078
	155.474	93.550	93.472	-0.078
	155.924	93.462	93.432	-0.030
	155.954	93.432	93.407	-0.025
	156.445	93.448	93.451	0.003
	160.805	93.583	93.583	0.000

LONGITUDINAL SECTION - LANE 01



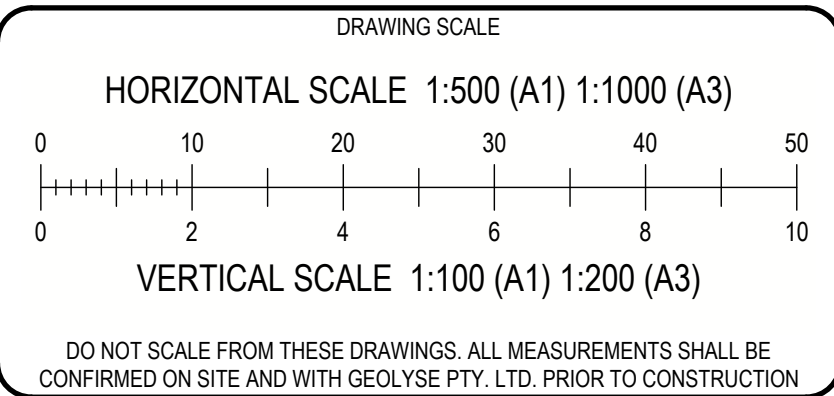
LEVEL	0.0765	0.065	0.06	0.00	0.06	0.065	0.0765
OFFSET	-4.65	-3.5	-3.0	0.000	3.0	3.5	4.65

TYPICAL CROSS SECTION LANE 01-04

SCALE HORIZONTAL 1:100
VERTICAL 1:100

REV.	DATE	DFTD.	APPD.	DETAILS
A	29/04/2019	KH	AB	ISSUED FOR DA - COUNCIL RFI 01

	FILE	INITIALS	DATE
SURVEY	JMD Surveyor	-	APRIL 2013
DESIGN	Tranche_27_Stages_01-06.project	AB	APRIL 2018
DRAINS/ HEC-RAS MODELING		-	-
ENGINEERING/ SURVEYING APPROVAL	ALEX BLACK MICHA ZESCHKE	AB MZ	19/11/2018 19/11/2018



APPROVAL AUTHORITY	CAMDEN COUNCIL
CLIENT	VILLAWORLD
PROJECT	ARENA - STAGES 1 - 6

GEOLYSE

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DRAWING			
LANE 01 & 02 LONGITUDINAL & TYPICAL SECTIONS			
PROJECT NUMBER 318028	DRAWING FILE 318028_04A_C350-C352.dwg	ORIGINAL	A1
SURVEY MARK .	R.L. .	DATUM A.H.D.	
IMAGE SOURCE -			
STATUS FOR APPROVAL	SHEET C350 OF C502	04A	

LEGEND

EXISTING LEVEL
DESIGN LEVEL

HORIZONTAL CURVE RADIUS
VERTICAL CURVE LENGTH
VERTICAL GRADE

DATUM R.L. 83.000

CUT/FILL																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		</
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LONGITUDINAL SECTION - LANE 04

HORIZONTAL CURVE RADIUS
VERTICAL CURVE LENGTH
VERTICAL GRADE

DATUM R.L. 84.000

CUT/FILL				0.000
FINISHED SURFACE LEVEL			94.671	94.539
NATURAL SURFACE LEVEL			94.671	94.539
CHAINAGE	0.000	4.400	4.850	4.880
			94.524	94.524
			94.555	94.524
			94.642	94.564
			94.794	94.729
			94.821	94.715
			94.837	94.711
			94.840	94.711
			94.860	94.719
			94.901	94.749
			95.066	94.885
			95.122	94.959
			95.245	95.169
			95.249	95.173
			95.352	95.259
			95.526	95.379
			95.686	95.480
			95.792	95.540
			95.882	95.610
			96.005	95.767
			96.047	95.832
			96.225	96.216
			96.247	96.269
			96.278	96.319
			96.303	96.341
			96.324	96.347
			96.380	96.302
			96.240	96.162
			96.155	96.122
			96.124	96.097
			96.137	96.137
			96.269	96.269

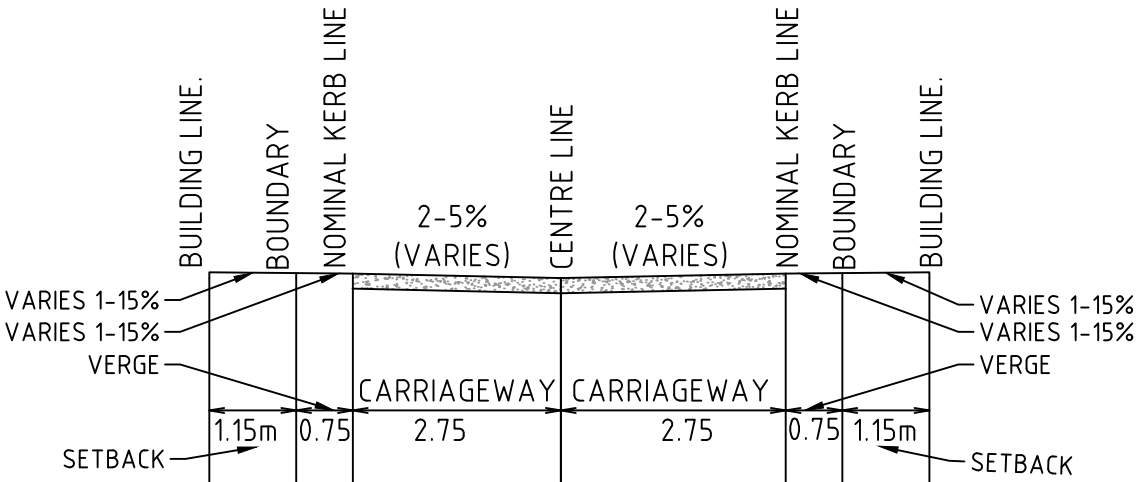
LONGITUDINAL SECTION - LANE 03

HORIZONTAL CURVE RADIUS
VERTICAL CURVE LENGTH
VERTICAL GRADE

DATUM R.L. 82.000

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LONGITUDINAL SECTION - LANE 05



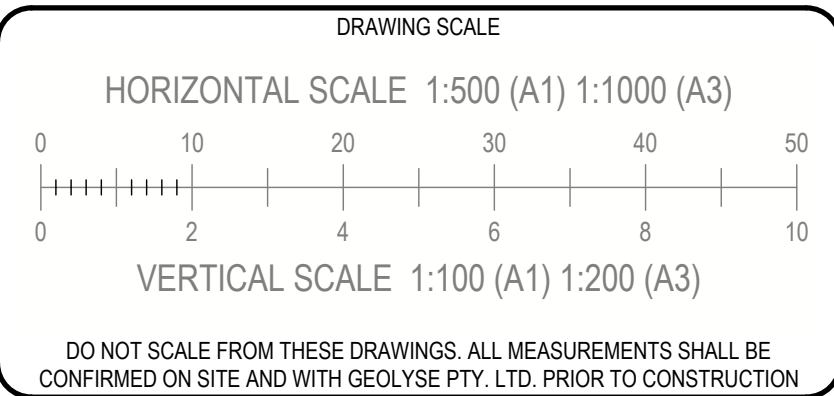
LEVEL	0.0765	0.065	0.06	0.00	0.06	0.065	0.0765
OFFSET	-4.85	-3.75	-3.0	0.00	3.0	3.75	4.85

TYPICAL CROSS SECTION LANE 05

SCALE HORIZONTAL 1:100
VERTICAL 1:100

REV.	DATE	DFTD.	APPD.	DETAILS
A	29/04/2019	KH	AB	ISSUED FOR DA - COUNCIL RFI 01

FILE	INITIALS	DATE
SURVEY	JMD Surveyor	- APRIL 2013
DESIGN	Tranche_27_Stages_01-06.project	AB APRIL 2018
DRAINS/ HEC-RAS MODELING		
ENGINEERING/ SURVEYING APPROVAL	ALEX BLACK MICHA ZESCHKE	AB MZ 19/11/2018 19/11/2018



APPROVAL AUTHORITY	CAMDEN COUNCIL
CLIENT	VILLAWORLD
PROJECT	ARENA - STAGES 1 - 6

GEOLYSE

Part of **Premise**

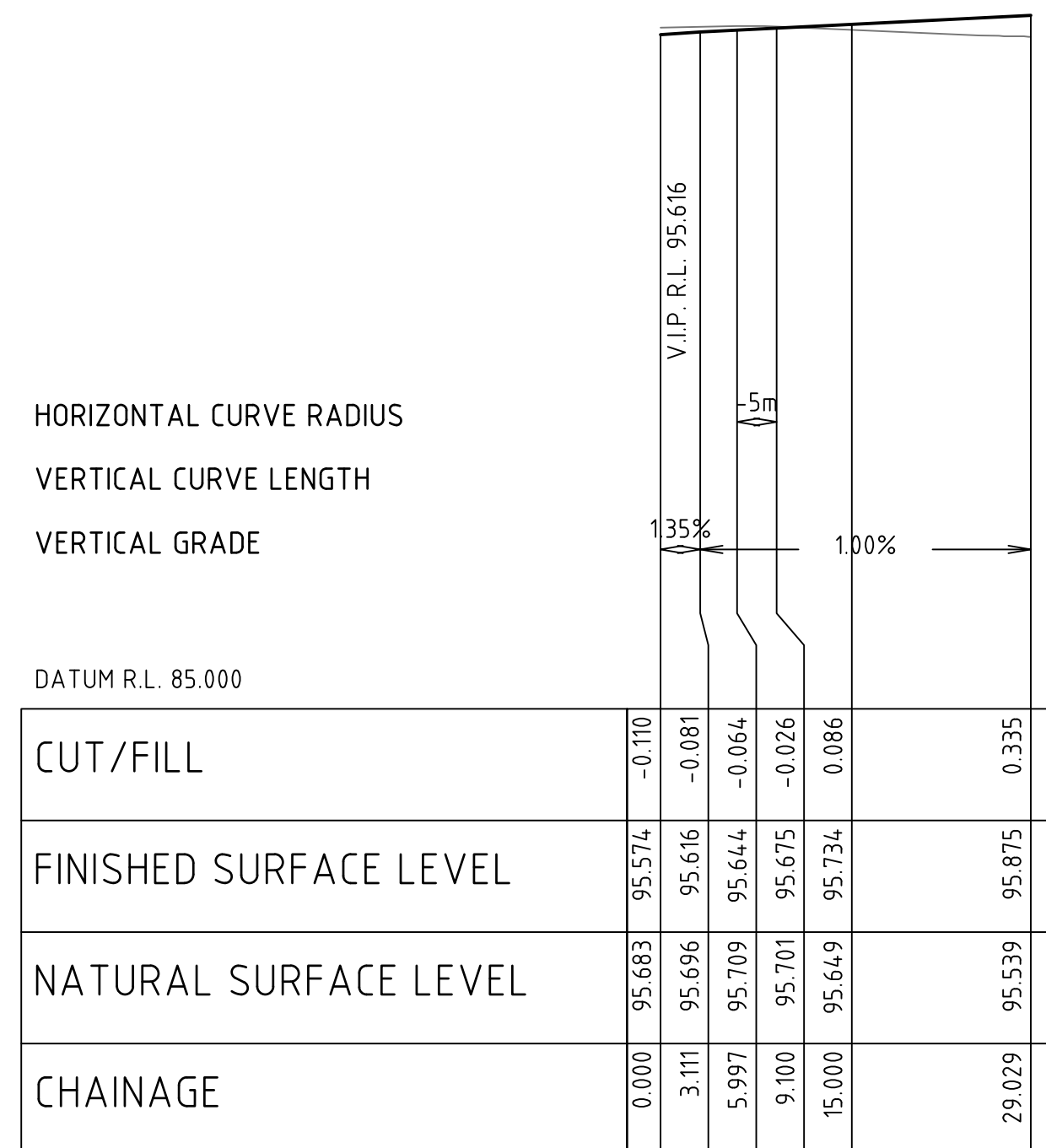
SUITE 301, LEVEL 3
ORAN PARK PODIUM
351 ORAN PARK DRIVE
ORAN PARK, NSW 2570
Ph. (02) 4632 6500

oranpark@geolyse.com
www.geolyse.com

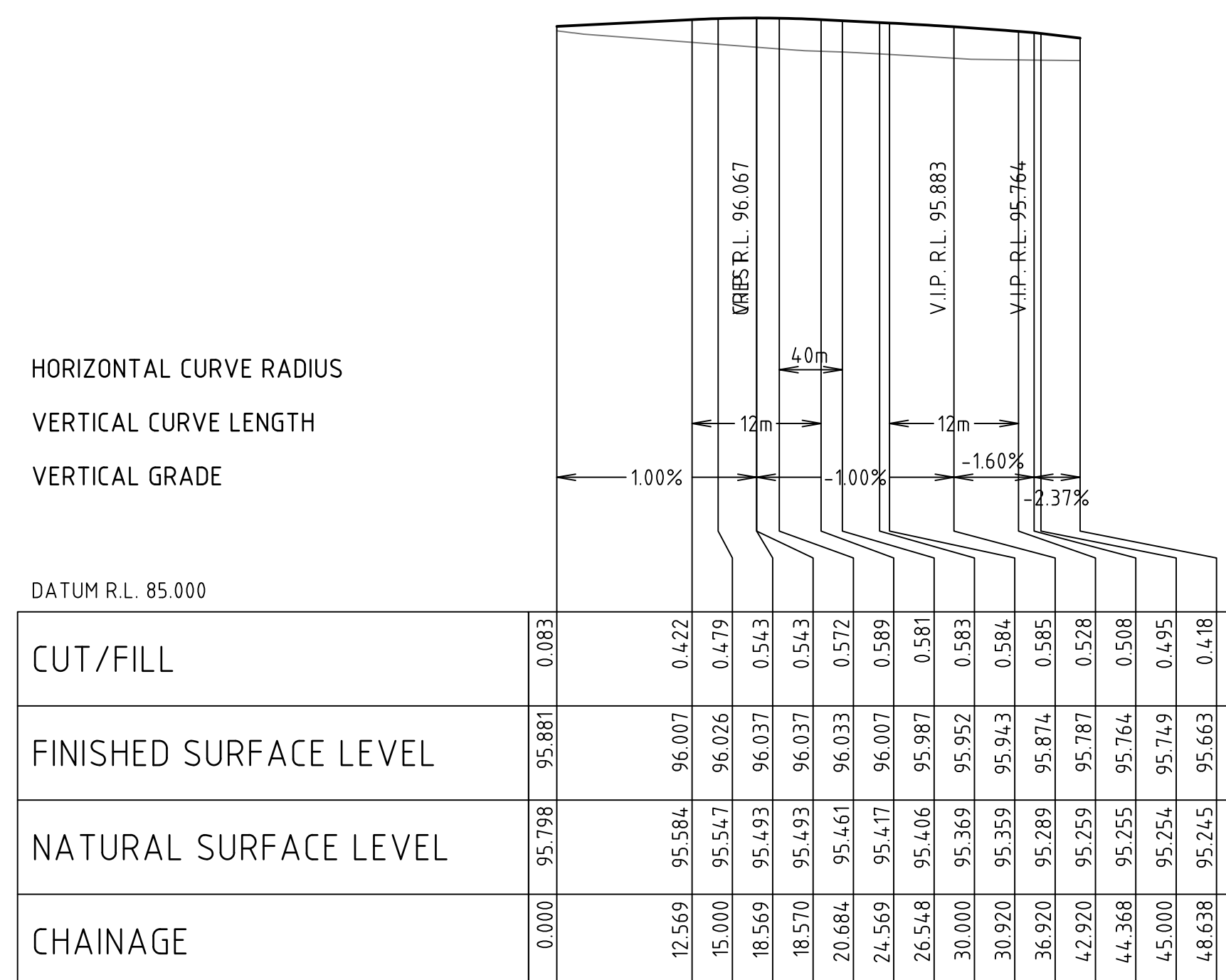
DRAWING			
LANE 03 04 & 05 LONGITUDINAL & TYPICAL SECTIONS			
PROJECT NUMBER 318028	DRAWING FILE 318028_04A_C350-C352.dwg	ORIGINAL	A1
SURVEY MARK	R.L.	DATUM A.H.D.	SET
IMAGE SOURCE -			04A
STATUS FOR APPROVAL	SHEET C351	OF C502	

LEGEND

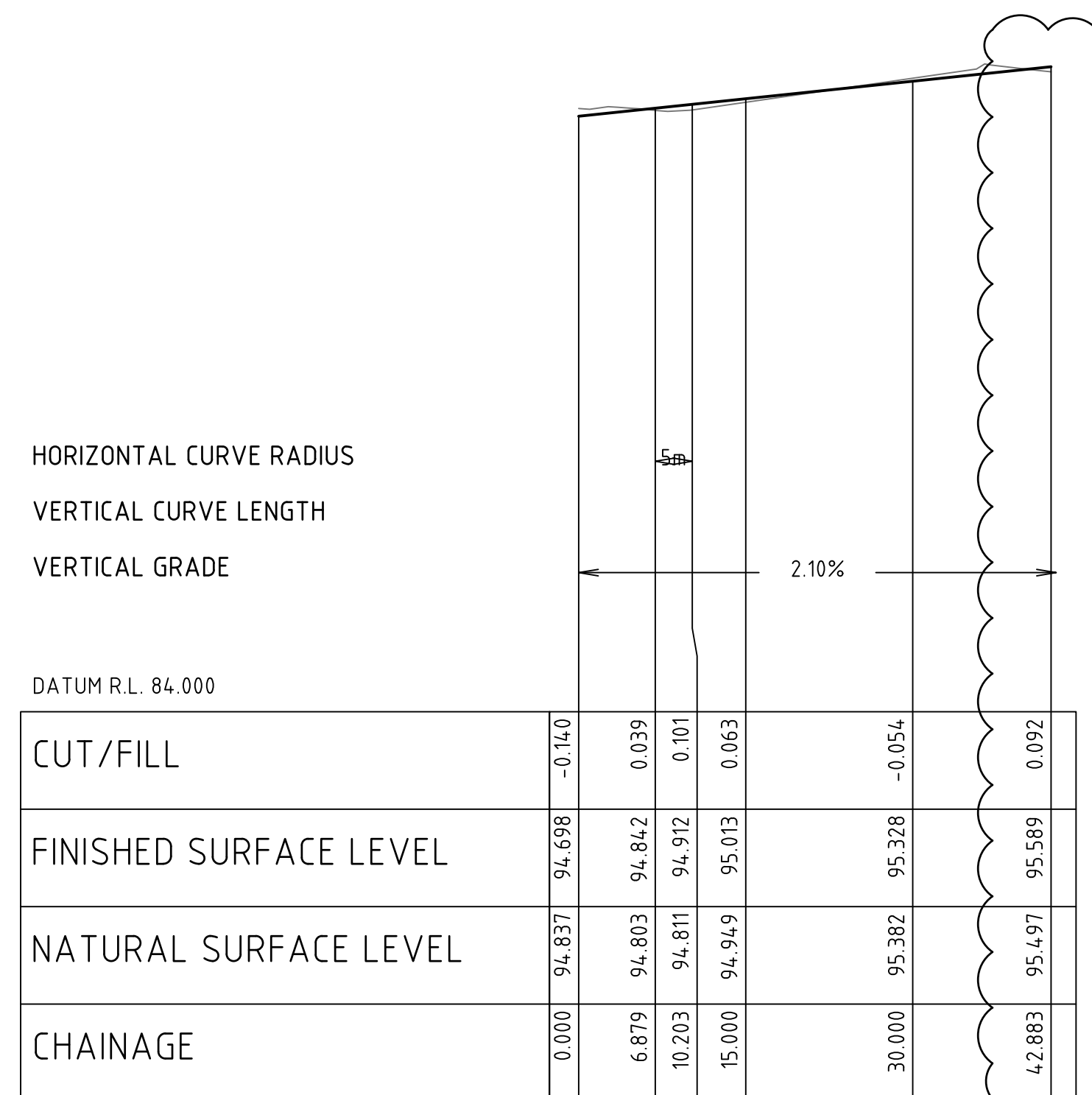
— EXISTING LEVEL
— DESIGN LEVEL



LONGITUDINAL SECTION - SHARED DRIVEWAY 03



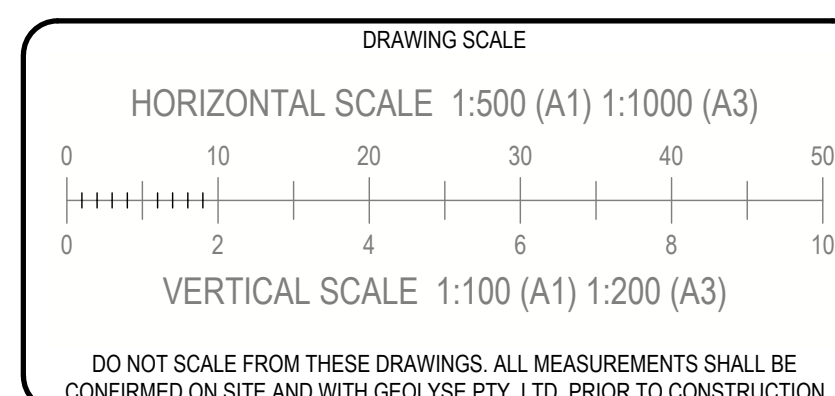
LONGITUDINAL SECTION - SHARED DRIVEWAY 01



LONGITUDINAL SECTION - SHARED DRIVEWAY 02

REV.	DATE	DFTD.	APPD.	DETAILS
A	19/11/2018	KH	AB	ISSUED FOR DEVELOPMENT APPLICATION
B	29/04/2019	KH	AB	ISSUED FOR DA – COUNCIL RFI 01
C	17/09/2019	NTT	AB	ISSUED FOR DA – COUNCIL RFI 02
D	25/10/2019	NTT	AB	PATHWAY AMENDED

	FILE	INITIALS	DATE
SURVEY	JMD Surveyor	-	APRIL 2013
DESIGN	Tranche_27_Stages_01-06.project	AB	APRIL 2018
DRAINS/ HEC-RAS MODELLING	-	-	-
ENGINEERING/ SURVEYING APPROVAL	ALEX BLACK MICA ZESCHKE	AB MZ	10/11/2018 19/11/2018



APPROVAL AUTHORITY	CAMDEN COUNCIL
CLIENT	VILLAWORLD
PROJECT	ARENA - STAGES 1 - 6



DRAWING			
DRIVEWAY 01 02 & 03 LONGITUDINAL & TYPICAL SECTIONS			
PROJECT NUMBER	318028	DRAWING FILE	318028_04A_C350-C352.dwg
SURVEY MARK	R.L.	DATUM	A.H.D.
IMAGE SOURCE			SET
STATUS	FOR APPROVAL	SHEET	C352 OF C502

LEGEND

- XX LIMIT OF CLEARING & GRADING
- DISTURBED AREA
- SEDIMENT FENCE IN ACCORDANCE WITH FIGURE SD 6.8 FROM THE LANDCOM SOILS AND CONSTRUCTION MANUAL.
- S.S.P. SOIL STOCKPILE IN ACCORDANCE WITH FIGURE SD 4.1 FROM THE LANDCOM SOILS AND CONSTRUCTION MANUAL.
- STABILISED SITE ACCESS IN ACCORDANCE WITH FIGURE SD 6.14 FROM THE LANDCOM SOILS AND CONSTRUCTION MANUAL.
- MESH AND GRAVEL INLET FILTER IN ACCORDANCE WITH FIGURE SD 6.11 FROM THE LANDCOM SOILS AND CONSTRUCTION MANUAL.
- GEOTEXTILE INLET FILTER IN ACCORDANCE WITH FIGURE SD 6.12 FROM THE LANDCOM SOILS AND CONSTRUCTION MANUAL.
- EARTH BANK IN ACCORDANCE WITH FIGURE SD 5.5 FROM THE LANDCOM SOILS AND CONSTRUCTION MANUAL.
- EARTH BASIN WET IN ACCORDANCE WITH FIGURE SD 6.4 FROM THE LANDCOM SOILS AND CONSTRUCTION MANUAL.
- SEDIMENT BASIN BOUNDARY

KERB INLET FILTER

SEDIMENT BASIN 01
1.131 Ha

LANE 01

SSP

STABILIZED SITE ACCESS

DICK JOHNSON DRIVE

DRIVEWAY 02

LANE 04

DRIVEWAY 03

ROAD

No. 2706

SEDIMENT BASIN 02
1.107 Ha

LANE 02

SSP

STABILIZED SITE ACCESS

SEDIMENT FENCE

LIMIT OF CLEARING & GRADING / SECURITY FENCE

SEDIMENTATION BASIN CALCULATIONS - BASIN 01

Source : The Blue Book - 'Managing Urban Stormwater Soils and Construction'

SITE INFORMATION

Location	:	Tranche 27 - Oran Park
Job No.	:	318028
Total Catchment Area	=	1.13 ha
Disturbed Catchment Area	=	1.13 ha
Slope Length	=	30 m
Slope	=	5 %

Now:

Basin Volume = Settling Zone Volume + Sediment Storage Volume

Where:

Settling Zone Volume: Vsv	=	10 x Cv x A x R _{75th} i.e. 5 day
Cv	=	0.5 Fine grained soils
A	=	1.131 ha
R _{75th} i.e. 5 day	=	20.2 Table 6.5 p6-21
Vsv	=	114.2 m ³

And:

Sediment Storage Zone Volume: Vssz	=	0.17*A*R*K*LS*P*C/1.3
A	=	Disturbed Catchment Area
S (2 year ARI, 6 hour storm event)	=	8.45 mm/hr
R = RUSLE R-factor = 164.74(1.1177) ^S	=	1669
K = RUSLE k-factor from Appendix B of manual	=	0.038
LS = RUSLE LS-factor from Table A1 of manual	=	0.68 pA-5
P = RUSLE P-factor from Table A2 of manual	=	1.3 pA-5
C = RUSLE C-factor from Table A4 of manual	=	1 pA-7
Vssz	=	8.3 m ³

Giving:

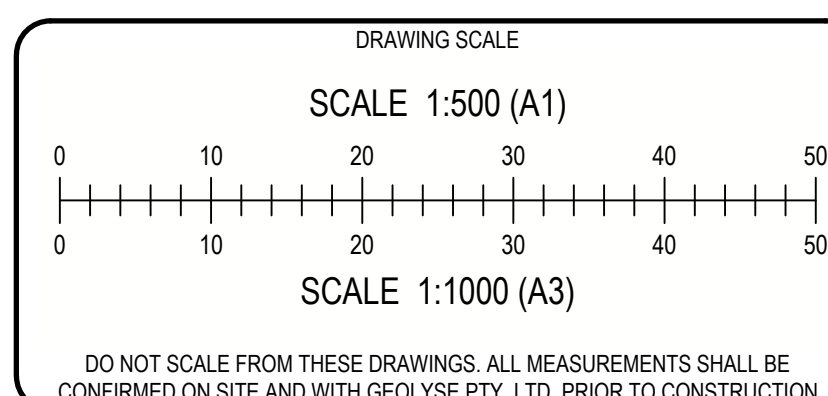
BASIN VOLUME = Vsv + Vssz = 123 m³

Calculation:

Surface Length (min 3xwidth)	=	22 m
Surface Width	=	7 m
Depth	=	1.50 m
Basin Wall Batter	=	2 e.g. 2:1 max = 2
Design Volume	=	128 m ³

REV.	DATE	DFTD.	APPD.	DETAILS
A	19/11/2018	KH	AB	ISSUED FOR DEVELOPMENT APPLICATION
B	22/11/2018	KH	AB	ARCHITECTURAL PLAN UPDATED & ISSUED FOR DEVELOPMENT APPLICATION
C	06/12/2018	KH	AB	MINOR AMENDMENT & ISSUED FOR DEVELOPMENT APPLICATION
D	29/04/2019	KH	AB	ISSUED FOR DA - COUNCIL RFI 01

FILE	INITIALS	DATE
SURVEY	JMD Surveyor	- APRIL 2013
DESIGN	Tranche_27_Stages_01-06.project	AB APRIL 2018
DRAINS/ HEC-RAS MODELING	ALEX BLACK	AB 19/11/2018
ENGINEERING/ SURVEYING/ APPROVAL	MICHA ZESCHKE	MZ 19/11/2018



APPROVAL AUTHORITY	CAMDEN COUNCIL
CLIENT	VILLAWORLD
PROJECT	ARENA - STAGES 1 - 6

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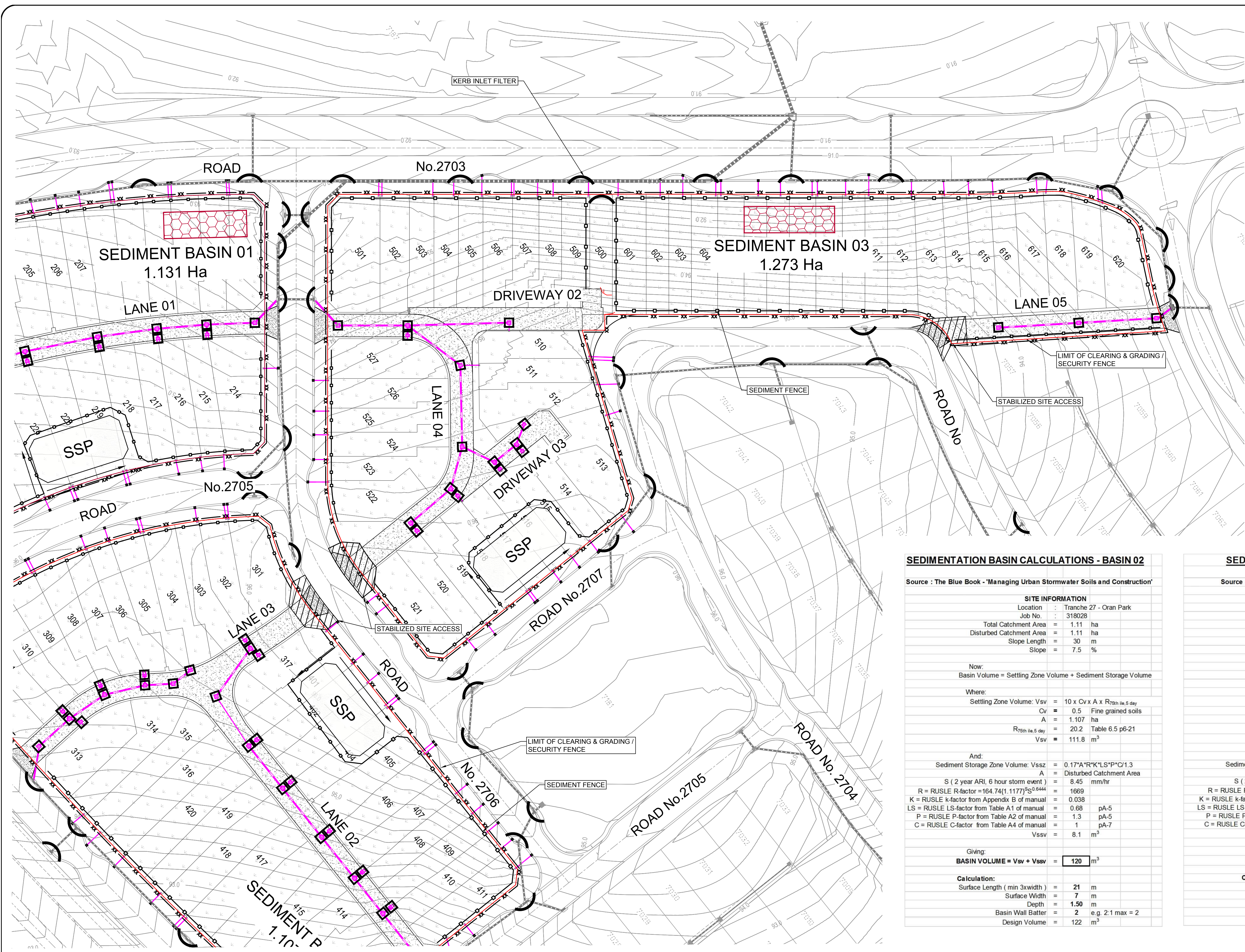
ORAN PARK

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351 ORAN PARK DRIVE
ORAN PARK, NSW 2570
Ph. (02) 4632 6500

DRAWING			
SOIL & WATER MANAGEMENT PLAN SHEET			
1 OF 2			
PROJECT NUMBER	318028	DRAWING FILE	318028_04C_C500-C502.dwg
SURVEY MARK	.	R.L.	DATUM A.H.D.
IMAGE SOURCE	.		
STATUS	FOR APPROVAL	SHEET	C500 OF C502
			04D



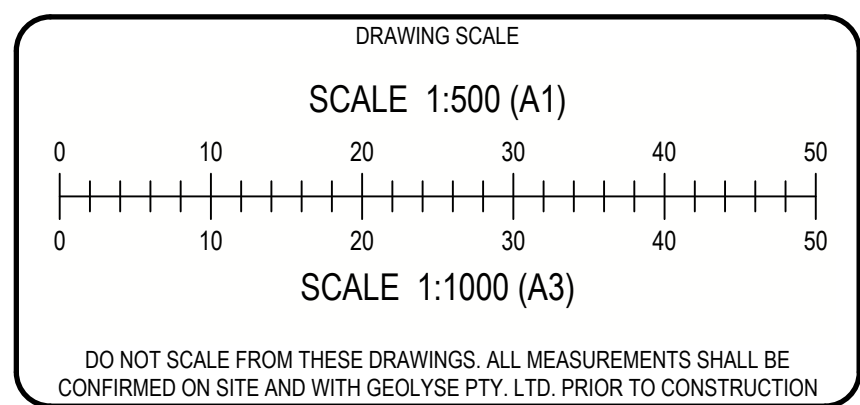
- LEGEND**
- XX LIMIT OF CLEARING & GRADING
 - [Pattern] DISTURBED AREA
 - [Symbol] SEDIMENT FENCE IN ACCORDANCE WITH FIGURE SD 6-8 FROM THE LANDCOM SOILS AND CONSTRUCTION MANUAL.
 - [Symbol] SOIL STOCKPILE IN ACCORDANCE WITH FIGURE SD 4-1 FROM THE LANDCOM SOILS AND CONSTRUCTION MANUAL.
 - [Pattern] STABILISED SITE ACCESS IN ACCORDANCE WITH FIGURE SD 6-14 FROM THE LANDCOM SOILS AND CONSTRUCTION MANUAL.
 - [Symbol] MESH AND GRAVEL INLET FILTER IN ACCORDANCE WITH FIGURE SD 6-11 FROM THE LANDCOM SOILS AND CONSTRUCTION MANUAL.
 - [Symbol] GEOTEXTILE INLET FILTER IN ACCORDANCE WITH FIGURE SD 6-12 FROM THE LANDCOM SOILS AND CONSTRUCTION MANUAL.
 - [Symbol] EARTH BANK IN ACCORDANCE WITH FIGURE SD 5-5 FROM THE LANDCOM SOILS AND CONSTRUCTION MANUAL.
 - [Pattern] EARTH BASIN WET IN ACCORDANCE WITH FIGURE SD 6-4 FROM THE LANDCOM SOILS AND CONSTRUCTION MANUAL.
 - [Line] SEDIMENT BASIN BOUNDARY

SEDIMENTATION BASIN CALCULATIONS - BASIN 02	
Source : The Blue Book - 'Managing Urban Stormwater Soils and Construction'	
SITE INFORMATION	
Location	Tranche 27 - Oran Park
Job No.	318028
Total Catchment Area	1.11 ha
Disturbed Catchment Area	1.11 ha
Slope Length	30 m
Slope	7.5 %
Now:	
Basin Volume = Settling Zone Volume + Sediment Storage Volume	
Where:	
Settling Zone Volume: Vsv	$10 \times C_v \times A \times R_{75th \text{ lie. 5 day}}$
Cv	0.5 Fine grained soils
A	1.107 ha
R _{75th lie. 5 day}	20.2 Table 6.5 p6-21
Vsv	111.8 m ³
And:	
Sediment Storage Zone Volume: Vssz	$0.17 \times A \times R \times K \times L \times S \times P \times C \times 1.3$
A	Disturbed Catchment Area
R	8.45 mm/hr
S (2 year ARI, 6 hour storm event)	1669
K = RUSLE k-factor from Appendix B of manual	0.038
LS = RUSLE LS-factor from Table A1 of manual	0.68 pA-5
P = RUSLE P-factor from Table A2 of manual	1.3 pA-5
C = RUSLE C-factor from Table A4 of manual	1 pA-7
Vssv	8.1 m ³
Giving:	
BASIN VOLUME = Vsv + Vssv = 120 m³	
Calculation:	
Surface Length (min 3xwidth)	21 m
Surface Width	7 m
Depth	1.50 m
Basin Wall Batter	2 e.g. 2:1 max = 2
Design Volume	122 m ³

SEDIMENTATION BASIN CALCULATIONS - BASIN 03	
Source : The Blue Book - 'Managing Urban Stormwater Soils and Construction'	
SITE INFORMATION	
Location	Tranche 27 - Oran Park
Job No.	318028
Total Catchment Area	1.27 ha
Disturbed Catchment Area	1.27 ha
Slope Length	30 m
Slope	13 %
Now:	
Basin Volume = Settling Zone Volume + Sediment Storage Volume	
Where:	
Settling Zone Volume: Vsv	$10 \times C_v \times A \times R_{75th \text{ lie. 5 day}}$
Cv	0.5 Fine grained soils
A	1.273 ha
R _{75th lie. 5 day}	20.2 Table 6.5 p6-21
Vsv	128.6 m ³
And:	
Sediment Storage Zone Volume: Vssz	$0.17 \times A \times R \times K \times L \times S \times P \times C \times 1.3$
A	Disturbed Catchment Area
R	8.45 mm/hr
S (2 year ARI, 6 hour storm event)	1669
K = RUSLE k-factor from Appendix B of manual	0.038
LS = RUSLE LS-factor from Table A1 of manual	0.68 pA-5
P = RUSLE P-factor from Table A2 of manual	1.3 pA-5
C = RUSLE C-factor from Table A4 of manual	1 pA-7
Vssv	9.3 m ³
Giving:	
BASIN VOLUME = Vsv + Vssv = 138 m³	
Calculation:	
Surface Length (min 3xwidth)	24 m
Surface Width	7 m
Depth	1.50 m
Basin Wall Batter	2 e.g. 2:1 max = 2
Design Volume	140 m ³

REV.	DATE	DFTD.	APPD.	DETAILS
A	19/11/2018	KH	AB	ISSUED FOR DEVELOPMENT APPLICATION
B	06/12/2018	KH	AB	MINOR AMENDMENT & ISSUED FOR DEVELOPMENT APPLICATION
C	29/04/2019	KH	AB	ISSUED FOR DA - COUNCIL RFI 01

FILE	INITIALS	DATE
SURVEY	JMD Surveyor	- APRIL 2013
DESIGN	Tranche_27_Stages_01-06.project	AB APRIL 2018
DRAINS/ HEC-RAS MODELLING		
ENGINEERING/ SURVEYING APPROVAL	ALEX BLACK MICHA ZESCHKE	AB 19/11/2018 MZ 19/11/2018



APPROVAL AUTHORITY	CAMDEN COUNCIL
CLIENT	VILLAWORLD
PROJECT	ARENA - STAGES 1 - 6

GEOLYSE

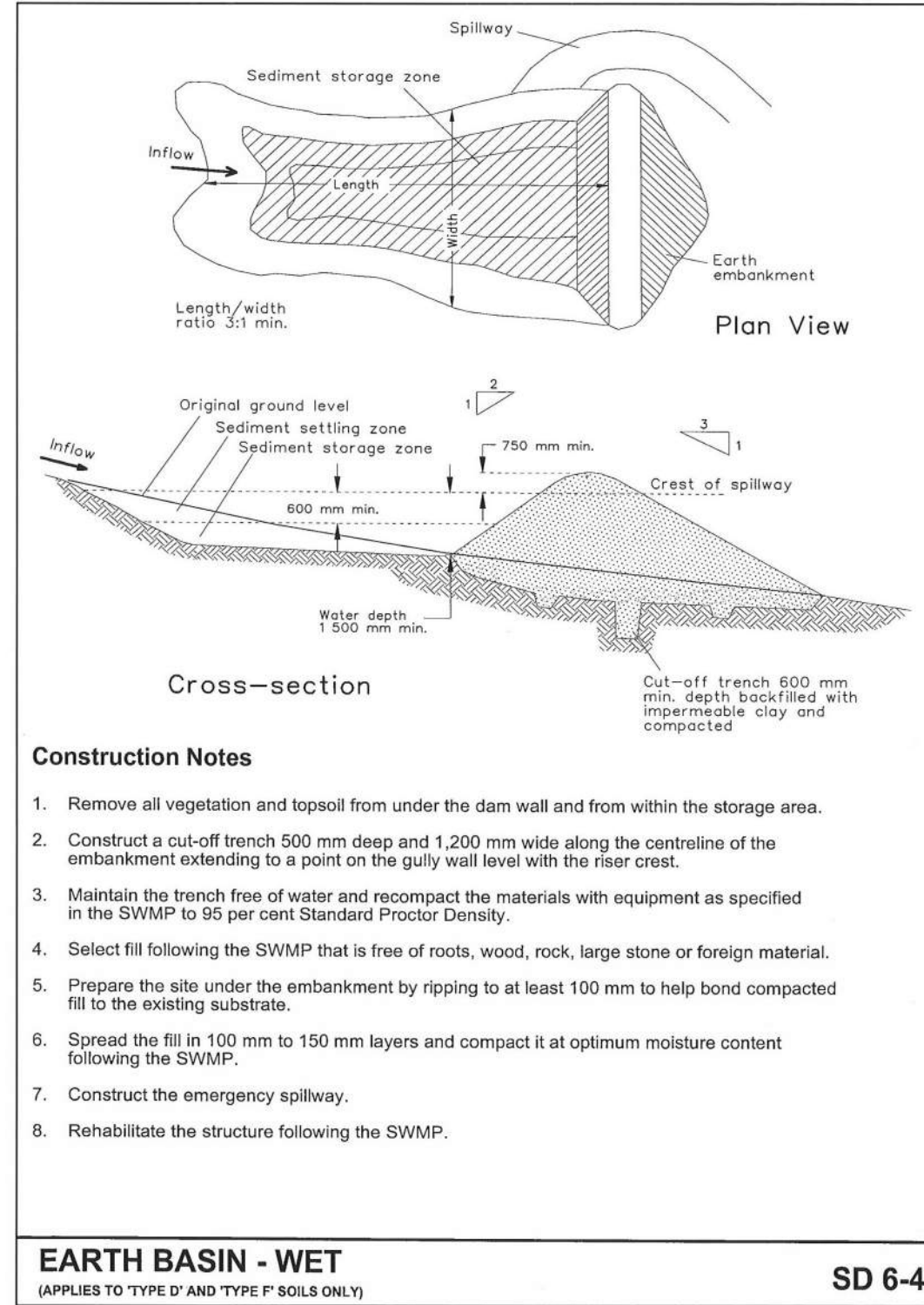
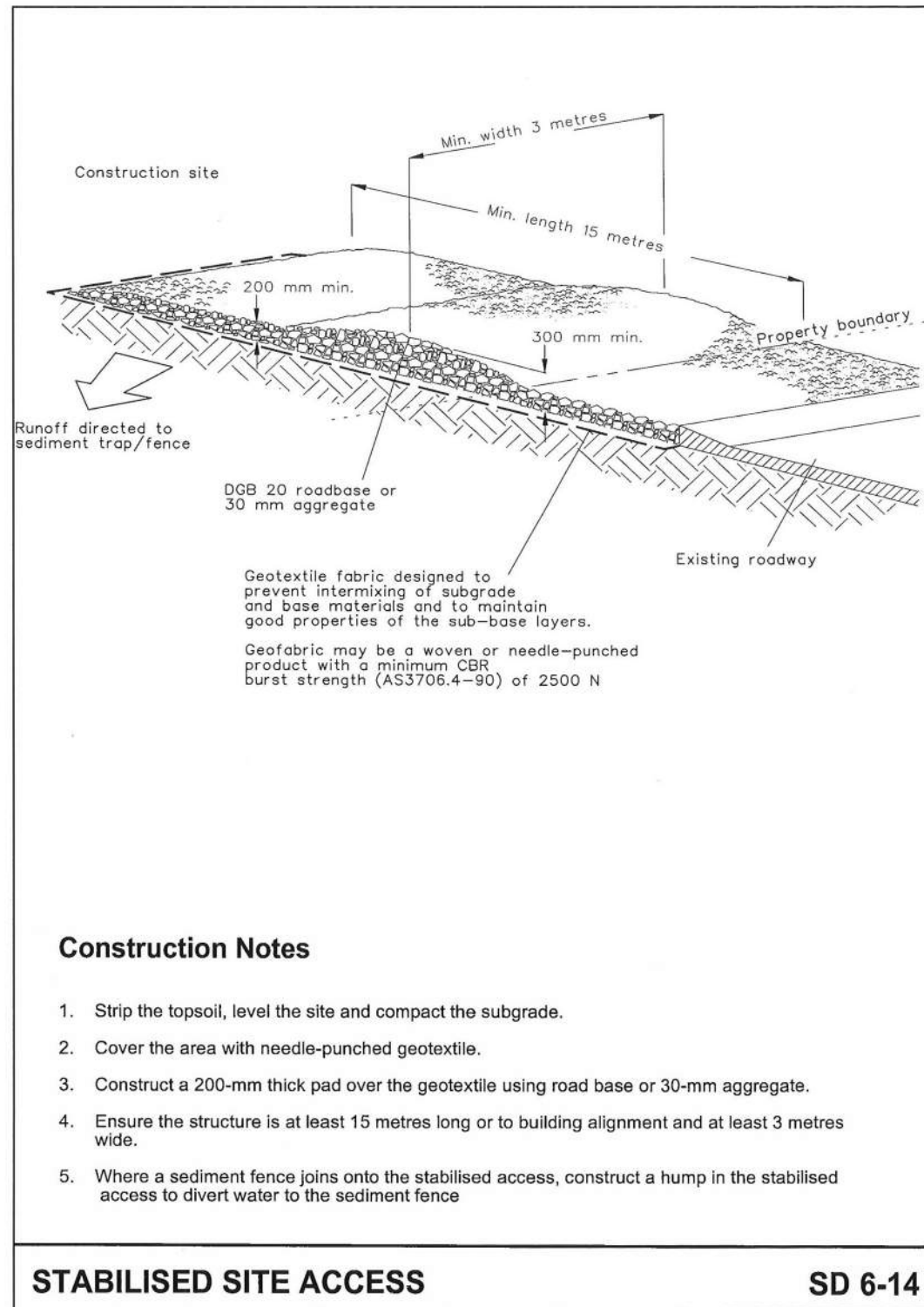
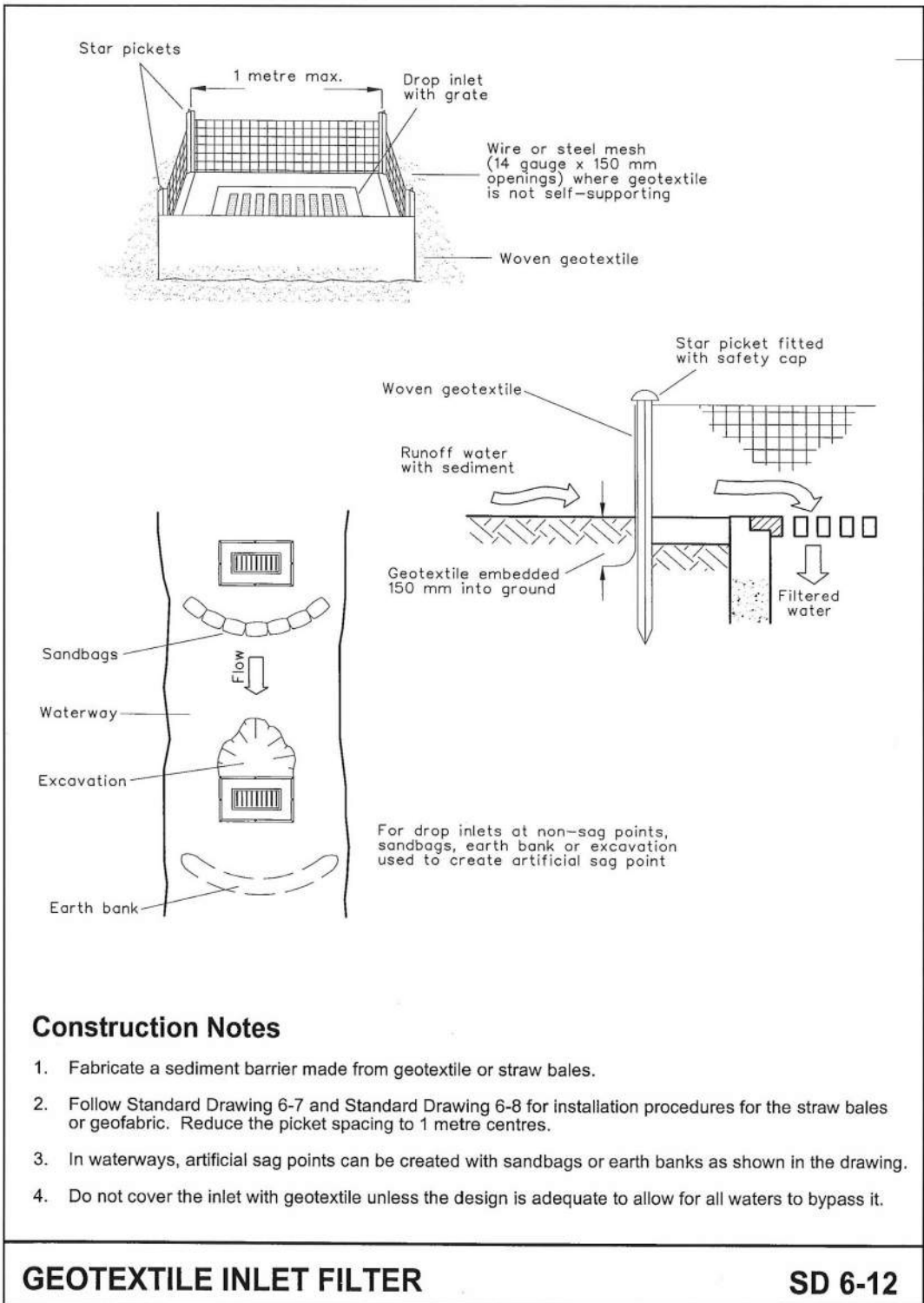
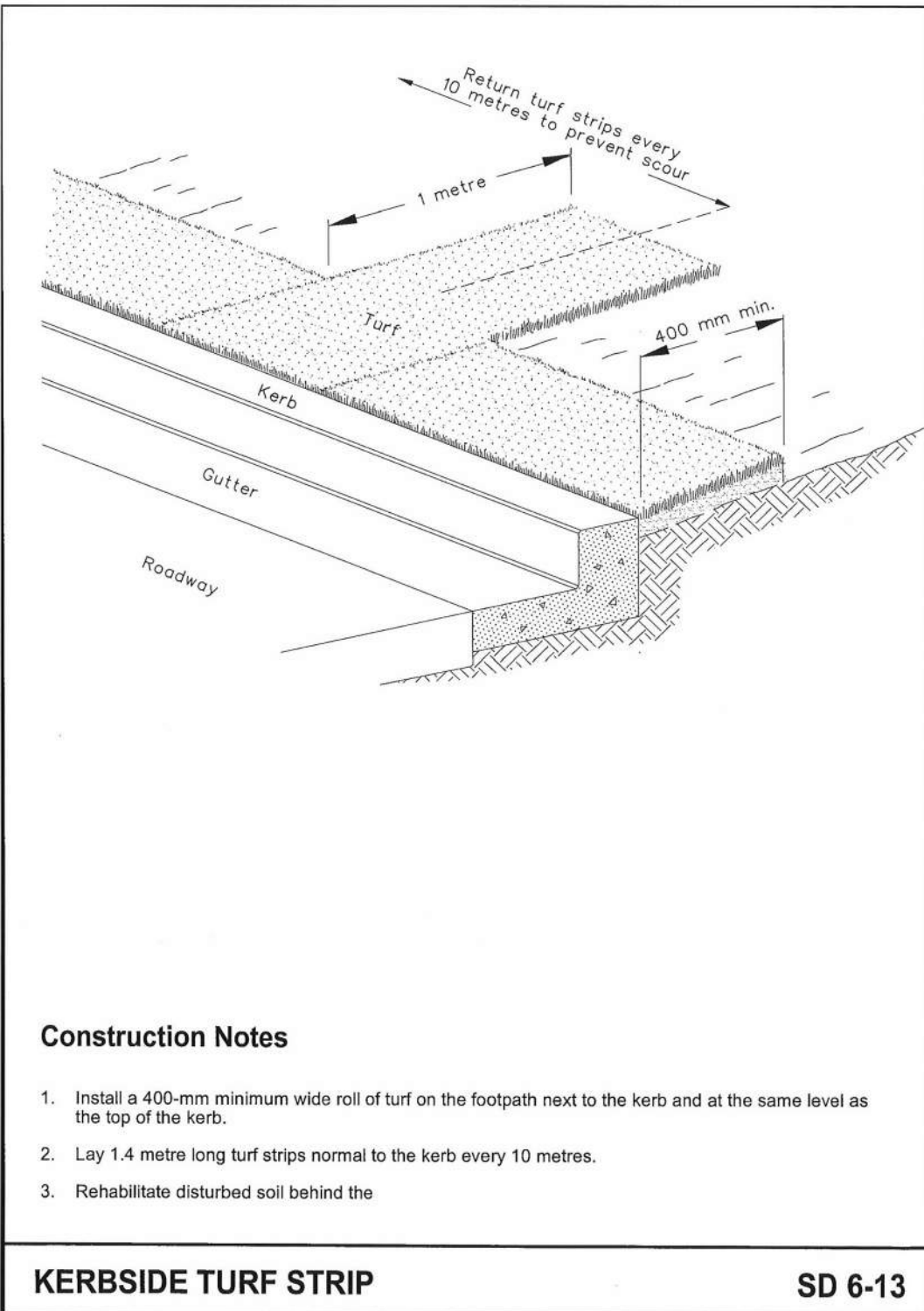
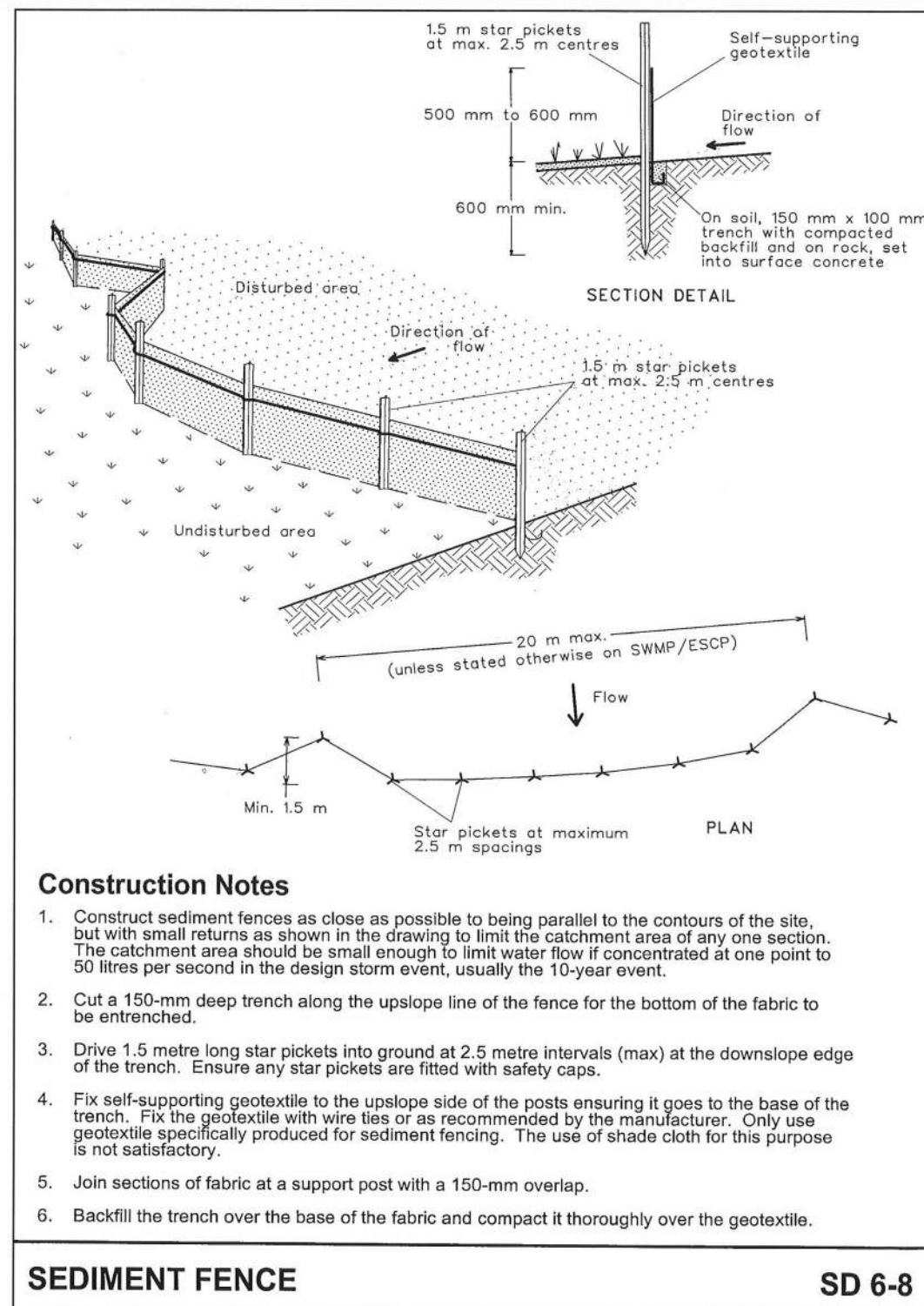
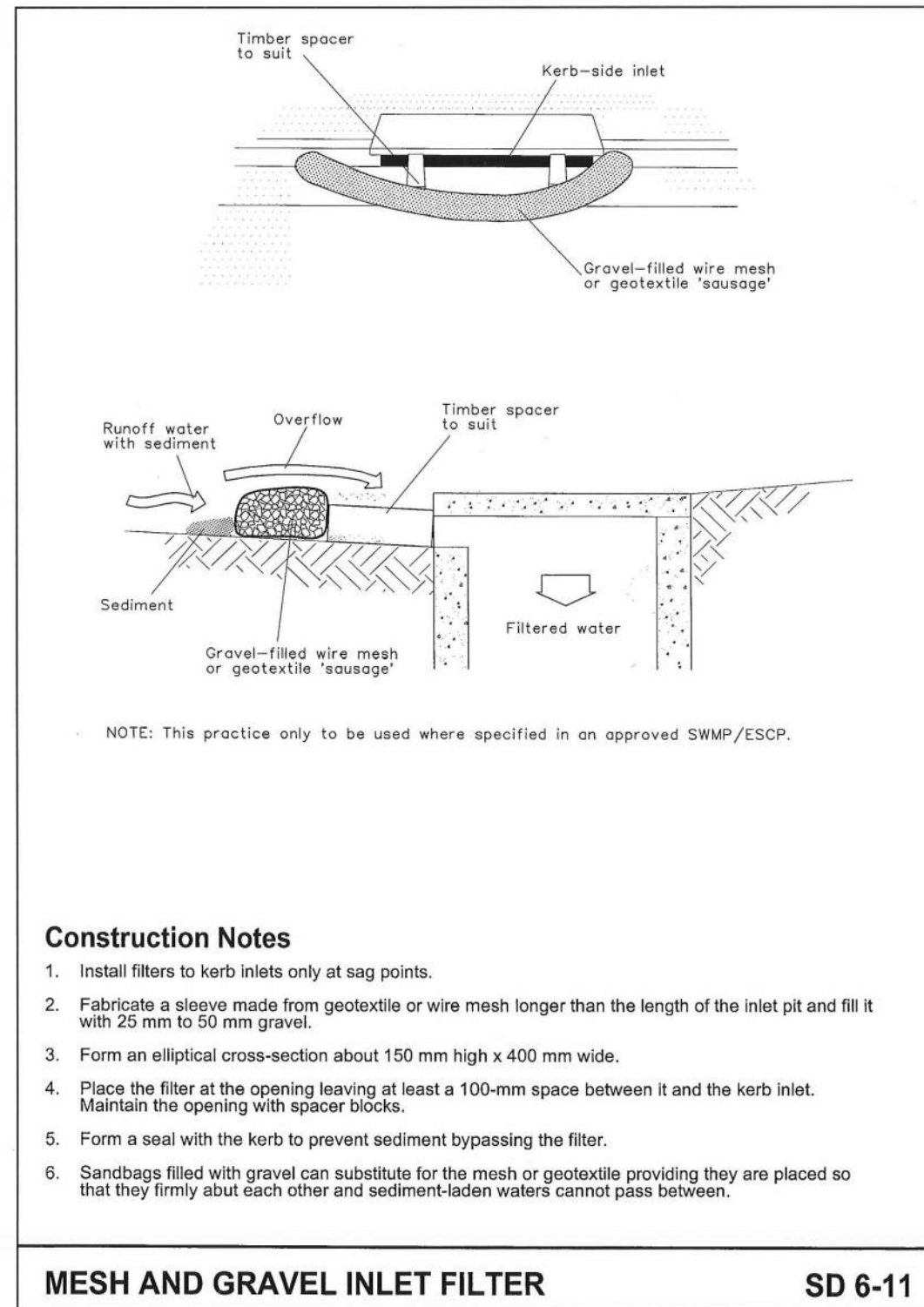
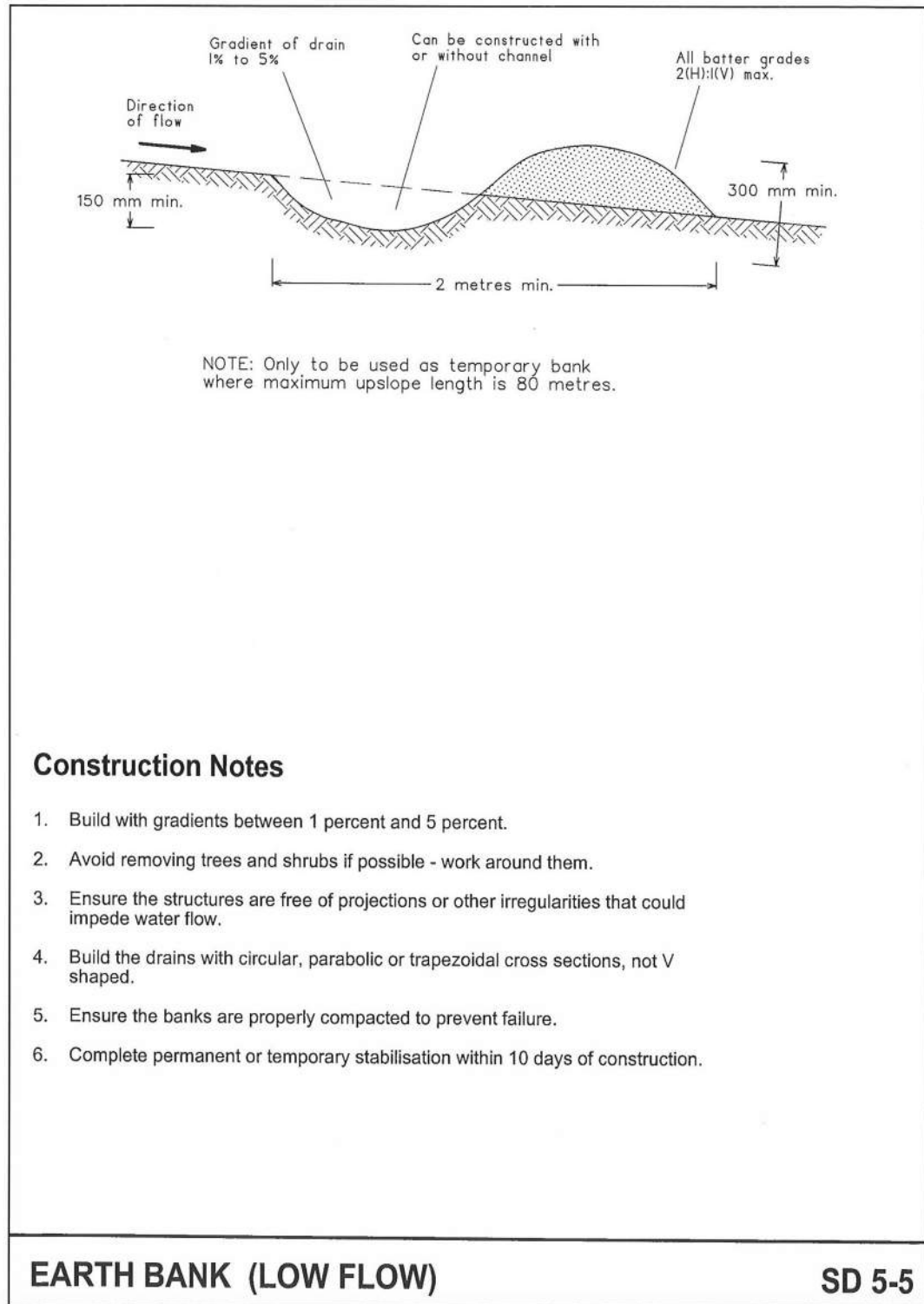
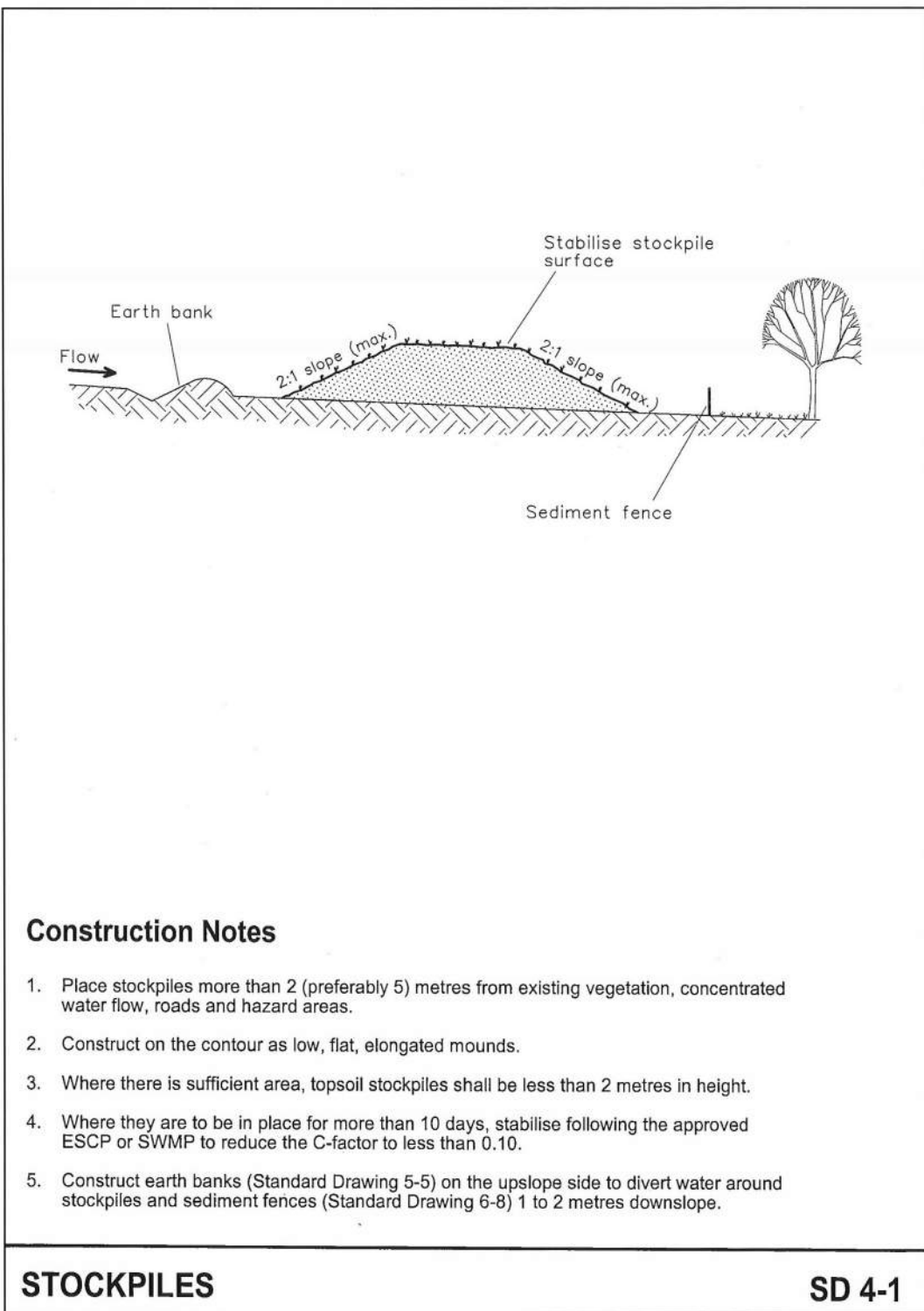
Part of **Premise**

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DRAWING			
SOIL & WATER MANAGEMENT PLAN SHEET 2 OF 2			
PROJECT NUMBER 318028	DRAWING FILE 318028_04C_C501-C502.dwg	ORIGINAL	A1
SURVEY MARK	R.L.	DATUM A.H.D.	
IMAGE SOURCE		SET	04C
STATUS FOR APPROVAL	SHEET C501 OF C502		



REV.	DATE	DFTD.	APPD.	DETAILS
A	19/11/2018	KH	AB	ISSUED FOR DEVELOPMENT APPLICATION
B	29/04/2019	KH	AB	ISSUED FOR DA - COUNCIL RFI 01
C	17/09/2019	NTT	AB	ISSUED FOR DA - COUNCIL RFI 02

	FILE	INITIALS	DATE
SURVEY	JMD Surveyor	-	APRIL 2013
DESIGN	Tranche_27_Stages_01-06.project	AB	APRIL 2018
DRAINS/ HEC-RAS MODELLING		-	-
ENGINEERING/ SURVEYING/ APPROVAL	ALEX BLACK MICHA ZESCHKE	AB MZ	19/11/2018 19/11/2018

DRAWING SCALE
DO NOT SCALE FROM THESE DRAWINGS. ALL MEASUREMENTS SHALL BE CONFIRMED ON SITE AND WITH GEOLYSE PTY. LTD. PRIOR TO CONSTRUCTION

APPROVAL AUTHORITY	CAMDEN COUNCIL
CLIENT	VILLAWORLD
PROJECT	ARENA - STAGES 1 - 6

	GEOLYSE
Part of	Premise
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oranpark@geolyse.com	
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DRAWING			
SOIL & WATER MANAGEMENT TYPICAL DETAILS			
PROJECT NUMBER 318028	DRAWING FILE 318028_04C_C500-C502.dwg	ORIGINAL	A1
SURVEY MARK	R.L.	DATUM A.H.D.	
IMAGE SOURCE			
STATUS FOR APPROVAL	SHEET C502 OF C502	04C	