

ENGINEERING PLANS OF INFRASTRUCTURE WORKS - STAGE 1B LOT 100 D.P.1262209 & LOT 1 D.P.859537 EPPING ROAD & LYONPARK ROAD, MACQUARIE PARK, SSDA 8903



LOCALITY SKETCH
NOT TO SCALE

INDEX OF DRAWINGS

DRAWING No.	NAME
300001(2)-ENG-001	COVER SHEET, INDEX OF DRAWINGS & LOCALITY SKETCH
300001(2)-ENG-002	GENERAL NOTES
300001(2)-ENG-003	OVERALL SITE PLAN
300001(2)-ENG-004	DEMOLITION PLAN
300001(2)-ENG-005	SURVEY SETOUT PLAN
300001(2)-ENG-006	STRUCTURAL NOTES
300001(2)-ENG-007	FLOOD EXTENTS PLAN
300001(2)-ENG-101	DETAIL PLAN
300001(2)-ENG-151	PAVEMENT PLAN
300001(2)-ENG-152	PAVEMENT DETAILS
300001(2)-ENG-181	SUBSOIL DRAINAGE PLAN
300001(2)-ENG-201	TYPICAL ROAD PROFILES, KERB DETAILS & ROAD SETOUT TABLES
300001(2)-ENG-202	KERB RAMP, TEMPORARY BERM & BIN FOOTING DETAILS
300001(2)-ENG-211	ROAD LONGITUDINAL SECTION - ROAD No.01 - SHEET 1
300001(2)-ENG-212	ROAD LONGITUDINAL SECTION - ROAD No.01 - SHEET 2
300001(2)-ENG-213	ROAD LONGITUDINAL SECTION - ROAD No.02
300001(2)-ENG-231	ROAD CROSS SECTIONS - ROAD No.01 - SHEET 1
300001(2)-ENG-232	ROAD CROSS SECTIONS - ROAD No.01 - SHEET 2
300001(2)-ENG-233	ROAD CROSS SECTIONS - ROAD No.01 - SHEET 3
300001(2)-ENG-234	ROAD CROSS SECTIONS - ROAD No.01 - SHEET 4
300001(2)-ENG-235	ROAD CROSS SECTIONS - ROAD No.01 - SHEET 5
300001(2)-ENG-236	ROAD CROSS SECTIONS - ROAD No.01 - SHEET 6
300001(2)-ENG-237	ROAD CROSS SECTIONS - ROAD No.01 - SHEET 7
300001(2)-ENG-238	ROAD CROSS SECTIONS - ROAD No.01 - SHEET 8
300001(2)-ENG-239	ROAD CROSS SECTIONS - ROAD No.01 - SHEET 9
300001(2)-ENG-240	ROAD CROSS SECTIONS - ROAD No.02 - SHEET 1
300001(2)-ENG-241	ROAD CROSS SECTIONS - ROAD No.02 - SHEET 2
300001(2)-ENG-242	ROAD CROSS SECTIONS - ROAD No.02 - SHEET 3
300001(2)-ENG-243	ROAD CROSS SECTIONS - ROAD No.02 - SHEET 4
300001(2)-ENG-244	ROAD CROSS SECTIONS - ROAD No.02 - SHEET 5
300001(2)-ENG-301	INTERSECTION DETAILS - KERB RETURNS KR03 & KR04
300001(2)-ENG-302	INTERSECTION DETAILS - KERB RETURNS KR05 & KR06
300001(2)-ENG-303	INTERSECTION DETAILS - KERB RETURNS KR10 & KR11
300001(2)-ENG-310	MRV TURNING PATHS - DETAIL PLANS
300001(2)-ENG-351	CARPARK DETAIL PLAN - CP07, CP08, CP10 & CP11
300001(2)-ENG-352	CARPARK LONGITUDINAL SECTIONS - CP07, CP08, CP10 & CP11
300001(2)-ENG-353	CARPARK DETAIL PLAN - CP02, CP03, CP04 & CP05
300001(2)-ENG-354	CARPARK LONGITUDINAL SECTIONS - CP02, CP03 & CP04
300001(2)-ENG-355	CARPARK SETOUT TABLES - CP02, CP03, CP04 & CP05
300001(2)-ENG-361	OVERALL LIF CARPARK PLAN
300001(2)-ENG-362	LIF CARPARK DETAIL PLAN - CARPARK No.1
300001(2)-ENG-363	LIF CARPARK SECTION - CARPARK CL No.1
300001(2)-ENG-364	DRIVEWAY LONGITUDINAL SECTIONS - DRIVEWAY No.1 & No.2
300001(2)-ENG-365	KERB RETURN LONGITUDINAL SECTIONS - KR101, KR101A, KR102, KR102A & KR102B
300001(2)-ENG-366	FOOTPATH No.1 LONGITUDINAL SECTION & TYPICAL CARPARK No.1 DETAILS
300001(2)-ENG-367	LIF CARPARK DETAIL PLAN - CARPARK No.2
300001(2)-ENG-368	LIF CARPARK SECTION - CARPARK CL No.2
300001(2)-ENG-369	DRIVEWAY LONGITUDINAL SECTION - DRIVEWAY No.03
300001(2)-ENG-370	KERB RETURN LONGITUDINAL SECTIONS - KR103 & KR103A
300001(2)-ENG-371	TYPICAL DETAILS & SECTIONS
300001(2)-ENG-401	STORMWATER CATCHMENT PLAN
300001(2)-ENG-411	STORMWATER SETOUT TABLE & DETAILS
300001(2)-ENG-421	STORMWATER CALCULATION CHARTS - 20 YEAR A.R.I.
300001(2)-ENG-422	STORMWATER CALCULATION CHARTS - 100 YEAR A.R.I.
300001(2)-ENG-431	STORMWATER LONGITUDINAL SECTIONS - SHEET 1
300001(2)-ENG-432	STORMWATER LONGITUDINAL SECTIONS - SHEET 2

INDEX OF DRAWINGS

DRAWING No.	NAME
300001(2)-ENG-433	STORMWATER LONGITUDINAL SECTIONS - SHEET 3
300001(2)-ENG-434	STORMWATER LONGITUDINAL SECTIONS - SHEET 4
300001(2)-ENG-435	STORMWATER LONGITUDINAL SECTIONS - SHEET 5
300001(2)-ENG-451	BASIN DETAIL PLAN
300001(2)-ENG-481	CUSTOM STORMWATER PIT - PIT No.1/14
300001(2)-ENG-482	CUSTOM STORMWATER PIT - PIT No.1/15
300001(2)-ENG-483	CUSTOM STORMWATER PIT - PIT No.1/16
300001(2)-ENG-484	CUSTOM STORMWATER PIT - PIT No.1/17
300001(2)-ENG-485	CUSTOM STORMWATER PIT - PIT No.3/9
300001(2)-ENG-486	CUSTOM STORMWATER PIT - PIT No.3/10
300001(2)-ENG-487	CUSTOM STORMWATER PIT - PIT No.3/11
300001(2)-ENG-488	CUSTOM STORMWATER PIT - PIT No.3/12
300001(2)-ENG-489	CUSTOM STORMWATER PIT - PIT No.3/13
300001(2)-ENG-490	CUSTOM STORMWATER PIT - PIT No.15/3
300001(2)-ENG-491	CUSTOM STORMWATER PIT - PIT No.15/4
300001(2)-ENG-492	CUSTOM STORMWATER PIT - PIT No.15/5
300001(2)-ENG-493	CUSTOM STORMWATER PIT - PIT No.100/4
300001(2)-ENG-494	CUSTOM STORMWATER PIT - PIT No.101/1
300001(2)-ENG-495	TYPICAL CUSTOM STORMWATER PIT DETAILS - SHEET 1
300001(2)-ENG-496	TYPICAL CUSTOM STORMWATER PIT DETAILS - SHEET 2
300001(2)-ENG-497	TYPICAL CUSTOM STORMWATER PIT DETAILS - SHEET 3
300001(2)-ENG-498	STORMWATER PIT 101/2 SETOUT PLAN
300001(2)-ENG-499	CUSTOM STORMWATER PIT - PIT No.1/10
300001(2)-ENG-501	SITE REGRADE PLAN
300001(2)-ENG-551	RETAINING WALL DETAIL PLAN
300001(2)-ENG-561	RETAINING WALL LONGITUDINAL SECTION - RW100
300001(2)-ENG-562	RETAINING WALL LONGITUDINAL SECTION - BRIDGE WALL No.1
300001(2)-ENG-563	RETAINING WALL LONGITUDINAL SECTION - EXISTING RETAINING WALL
300001(2)-ENG-564	RETAINING WALL LONGITUDINAL SECTION - RW101
300001(2)-ENG-571	TYPICAL RETAINING WALL DETAILS & NOTES
300001(2)-ENG-572	TYPICAL GABION WALL DETAILS & NOTES
300001(2)-ENG-573	TYPICAL GABION WALL BRIDGING STRUCTURE DETAILS
300001(2)-ENG-574	TYPICAL GABION WALL NOTES
300001(2)-ENG-601	EROSION & SEDIMENT CONTROL PLAN
300001(2)-ENG-611	EROSION & SEDIMENT CONTROL DETAILS & NOTES
300001(2)-ENG-701	BRIDGE DETAIL PLAN
300001(2)-ENG-711	FOOTPATH No.2 PLAN & LONGITUDINAL SECTION
300001(2)-ENG-721	BRIDGE ABUTMENT LONGITUDINAL SECTION & HEADWALL OUTLET DETAILS
300001(2)-ENG-722	HEADWALL OUTLET DETAILS
300001(2)-ENG-751	LINEMARKING & SIGNAGE PLAN
300001(2)-ENG-801	TREE RETENTION PLAN
300001(2)-ENG-901	COMBINED SERVICES PLAN
300001(2)-ENG-902	TYPICAL ROAD PROFILES - SERVICE LOCATIONS
300001(2)-ENG-903	SERVICES RELOCATION PLAN
300001(2)-ENG-904	SERVICES RELOCATION SECTIONS



These plans are referred to in certificate no. **16746** approved by:
Eric Hausfeld
Registered Certifier
Registration No: BDC 2416
Categories: Certifier - Subdivision
Certifier - Strata
Certifier - Stormwater
Certifier - Road & Drainage
Certifier - Hydraulic (stormwater)

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CONSTRUCTION ISSUE

REV.	DATE	AMENDMENT	DESIGN	DRAWN	CHECKED	APPROVED	SCALES	CLIENT	PROPERTY DESCRIPTION	PROJECT
1	21.01.22	ISSUED FOR CONSTRUCTION	B.M.	J.J.	B.M.	B.M.		 Central Coast 5 Pioneer Avenue, P.O. Box 3717, Tuggerah N.S.W. 2259 Phone: (02) 4305 4300 Fax: (02) 4305 4399 email: coast@adwjohnson.com.au www.adwjohnson.com.au ABN 62 129 445 398	LOT 100 D.P.1262209 & LOT 1 D.P.859537 EPPING ROAD & LYONPARK ROAD, MACQUARIE PARK SSDA 8903	PROPOSED SUBDIVISION
DESIGN FILE S:\300001\DESIGN\12D\STAGE 2 CC\DESIGN FILE.project										PLAN TITLE COVER SHEET, INDEX OF DRAWINGS & LOCALITY SKETCH
ALL DIMENSIONS ARE IN METRES. DO NOT SCALE									SURVEYED ADW Johnson	PROJECT No. 300001(2) -
Plotted By: Ben Myles Plot Date: 21/01/22 2:27:40PM Cad File: S:\300001\DRAWINGS\ENGINEERING\CIVIL\STAGE 2 CC ENG\300001(2)-ENG-001.DWG									DATUM GDA94 M.G.A. ZONE 56 A.H.D.	DISCIPLINE ENG
										NUMBER 001
										REV. 1

RYDE CITY COUNCIL

GENERAL:

1. ALL MATERIALS AND PRODUCTS FOR INSTALLATION AND CONSTRUCTION SHALL COMPLY WITH AUSTRALIAN STANDARDS. MONITORING TESTING ("STRING LINE" AND "ROLL") WHERE SPECIFIED BY COUNCIL'S MANUAL OF ENGINEERING STANDARDS, TO BE PERFORMED BY COUNCIL, SHALL BE ARRANGED **24 HOURS** IN ADVANCE. WHERE A COUNCIL OFFICER IS NOT AVAILABLE, A GEOTECHNICAL ENGINEER MAY PERFORM SUCH TESTS.

2. ALL TREES WITHIN THE ALLOTMENT AND RESERVES (OTHER THAN ROAD RESERVES) SHALL BE RETAINED, UNLESS OTHERWISE NOMINATED BY THE APPROVED LANDSCAPE PLAN. REMOVAL OF TREES FOR THE ESTABLISHED OF FIRE-BREAKS SHALL BE CARRIED OUT IN CONSULTATION WITH THE FIRE CONTROL OFFICER AND/OR COUNCIL'S ENVIRONMENTAL OFFICER.

TRAFFIC CONTROL:

1. TRAFFIC CONTROL MEASURES SHALL BE IN ACCORDANCE WITH THE RMS DOCUMENT "TRAFFIC CONTROL AT WORKSITES".

REGRADING:

1. TOPSOIL **150mm** THICK SHALL BE APPLIED TO ALL FOOTPATHS AND FILLED AREAS. WHERE TURF IS NOT REQUESTED, ALL EXPOSED TOPSOIL SHALL BE SEEDED IMMEDIATELY UPON COMPLETION OF THE SOIL SPREADING OPERATION. TURF TO BE PLACED FULL WIDTH BETWEEN KERB AND FOOTPATH.

2. ALL FILL WITHIN LOTS INCLUDING BATTERS SHALL BE PLACED IN ACCORDANCE WITH **AS 3798** TO **LEVEL 1** INSPECTION AND TESTING.

PAVEMENT:

1. PROVISION SHOULD BE MADE FOR SUITABLE PROTECTION OF THE EXISTING ROAD PAVEMENTS, KERB AND GUTTER AND FOOTPATH FORMATION. VEHICULAR ACCESS TO ALL SERVICES TO ADJOINING PROPERTIES AFFECTED BY CONSTRUCTION WORKS, SHALL BE MAINTAINED AT ALL TIMES.

STORMWATER:

1. SUBSOIL DRAINS SHALL BE PROVIDED IN ACCORDANCE WITH COUNCILS STANDARDS, ADDITIONAL DRAINS SHALL BE PROVIDED WHERE CONSIDERED NECESSARY, BY COUNCIL OR A GEOTECHNICAL ENGINEER.

SEDIMENT & EROSION CONTROL:

2. ALL SILT CONTROL MEASURES SHALL BE PLACED PRIOR TO THE COMMENCEMENT OF EARTHWORKS. SUCH MEASURES SHALL BE SUBJECT TO FURTHER ADDITIONS, WHERE CONSIDERED NECESSARY, AS DIRECTED BY THE PROJECT MANAGER OR COUNCIL, DURING THE PROGRESSIONS OF WORKS. ALL FINAL EROSION PREVENTION MEASURES INCLUDING ESTABLISHMENT OF GRASS SHALL BE COMPLETED PRIOR TO THE "FINAL" INSPECTION.

GEOTECHNICAL

1. GEOTECHNICAL INVESTIGATION PERFORMED BY:

DOUGLAS PARTNERS - REFERENCE 86043.01
DATED: DECEMBER 2019

REFER TO THE AFOREMENTIONED REPORT DURING CONSTRUCTION.

EARTHWORKS & REGRADING

1. SITE REGRADE AREA IS TO BE DRAINED IF REQUIRED AND ALL EXISTING VEGETATION REMOVED.

2. ALL TOPSOIL AND UNSUITABLE MATERIAL WILL BE REMOVED PRIOR TO PLACEMENT OF EXCESS MATERIAL FROM ROAD EXCAVATION IN ACCORDANCE WITH DIRECTIONS FROM GEOTECHNICAL ENGINEER.

3. MAXIMUM NOMINATED THICKNESS OF FILL LAYER

- **150mm** IN ROAD RESERVE AREAS
- **300mm** IN OTHER AREAS

4. MINIMUM NOMINATED COMPACTION OF FILL

- **98%** STANDARD IN ROAD RESERVE AREAS
- **95%** STANDARD IN OTHER AREAS

5. COMPACTION OF EARTHWORKS ASSOCIATED WITHIN LOTS TO BE CARRIED OUT UNDER **LEVEL 1** SUPERVISION IN ACCORDANCE WITH **AS 3798-1996** AND A REPORT SUBMITTED TO THE PRINCIPAL CERTIFYING AUTHORITY WITH DOCUMENTATION ACCOMPANYING THE RESPECTIVE COMPLIANCE CERTIFICATE APPLICATION.

6. ALL AREAS DISTURBED DURING EARTHWORKS ARE TO BE REINSTATED AND SEEDED IMMEDIATELY.

7. ALL SITE REGRADE TO BE CONTROL FILL IN ACCORDANCE WITH GEOTECHNICAL ENGINEERS DIRECTION.

8. WHERE PRACTICAL CATCHDRAINS ARE TO BE CONSTRUCTED UPSLOPE OF THE SITE REGRADE TO DIVERT CLEAN SURFACE WATER.

9. SITE REGRADE AREAS ARE TO BE TURFED OR SEEDED AS DIRECTED BY LANDSCAPE ARCHITECT OR SUPERINTENDENT.

10. ALL TREES TO BE REMOVED ARE TO BE MULCHED/ CHIPPED ON SITE AND REUSED AS MULCH WITHIN THE DEVELOPMENT.

STORMWATER

1. ALL STORMWATER PITS DEEPER THAN **1.0m** TO HAVE STEP IRONS.

2. PRECAST PITS TO BE INSTALLED AS PER MANUFACTURERS SPECIFICATION.

3. ALL INTERALLOTMENT DRAINAGE PITS TO BE PROVIDED WITH HINGED, LOCKABLE GRATES.

4. ALL INTERALLOTMENT DRAINAGE PITS DEEPER THAN **2.5m** TO BE DESIGNED BY A SUITABLY QUALIFIED STRUCTURAL ENGINEER.

5. ALL RCP STORMWATER PIPES TO BE RUBBER RING JOINTED (RRJ) UNLESS INDICATED OTHERWISE.

6. ALL FINAL GRATE LEVELS FOR IAD PITS TO BE **100mm** BELOW DESIGN SURFACE LEVELS.

7. ALL STORMWATER PITS AND PIPES TO BE INSTALLED IN ACCORDANCE WITH RYDE COUNCIL STANDARD DRAWINGS.

8. ALL STORMWATER PITS TO HAVE MINIMUM 35mm MASS CONCRETE BENCH AS PER COUNCIL STANDARD DRAWING.

RIPRAP

1. ALL PERMANENT ROCK SCOUR PROTECTION MUST CONSIST OF HARD DURABLE RUN-OF-QUARRY ROCK, SIZED TO RESIST PREDICTED SCOUR VELOCITIES. ROCK MUST BE ANGULAR AND BULKY RATHER THAN FLAT, TO ENSURE A GOOD "BIND" AND TO RESIST NEGATIVE HYDRAULIC PRESSURE. ROCK IS TO BE PLACED OVER GEOFABRIC TO PREVENT EROSION OF UNDERLYING FINE BED SEDIMENTS.

2. COMPACT THE SUBGRADE FILL TO THE DENSITY OF THE SURROUNDING UNDISTURBED MATERIAL.

3. PREPARE A SMOOTH, EVEN FOUNDATION FOR THE STRUCTURE THAT WILL ENSURE THAT THE NEEDLE-PUNCHED GEOTEXTILE DOES NOT SUSTAIN DAMAGE WHEN COVERED WITH ROCK.

4. SHOULD ANY MINOR DAMAGE TO THE GEOTEXTILE OCCUR, REPAIR BEFORE SPREADING ANY AGGREGATE. FOR REPAIRS, PATCH BY PLACING ONE PIECE OF FABRIC OVER THE DAMAGE, MAKING SURE THAT ALL JOINTS AND PATCHES OVERLAP MORE THAN **300mm**.

5. LAY ROCK FOLLOWING THE DRAWING, AND WITH A MINIMUM DIAMETER OF **300mm**.

LINEMARKING & SIGNAGE

1. LINEMARKING & SIGNAGE TO BE PROVIDED IN ACCORDANCE WITH APPROVED DRAWINGS PREPARED BY ADW JOHNSON REFERENCE 300001-ESK-190-192.

EROSION & SEDIMENT CONTROL

1. EROSION AND SEDIMENT CONTROL MEASURES ARE TO BE CONSISTENT WITH THE NSW GOVERNMENT'S "MANAGING URBAN STORMWATER: SOILS AND CONSTRUCTION".

2. THE ARRANGEMENT SHOWN ON THE PLANS IS DIAGRAMMATIC ONLY. AMENDMENTS MAY NEED TO BE MADE DURING CONSTRUCTION.

3. ALL SEDIMENT AND EROSION CONTROL MEASURES, INCLUDING BASINS AND DIVERSION DRAINS, ARE TO BE IN PLACE PRIOR TO STRIPPING OF SITE.

4. MAINTAIN ALL EROSION AND SEDIMENT CONTROL MEASURES UNTIL COMPLETE REHABILITATION IS ACHIEVED.

5. DISTURBED AREAS ARE TO BE KEPT TO A MINIMUM. NO MORE THAN **2.5ha** OF THE SITE SHALL BE EXPOSED TO EROSION AT ANY ONE TIME.

6. ALL TOPSOIL IN SITE REGRADING AREAS AND ROAD RESERVES TO BE STOCKPILED ON SITE AS SHOWN.

7. STOCKPILE LOCATIONS INDICATIVE ONLY. CONTRACTOR TO IDENTIFY LOCATIONS AND SEEK APPROVAL FROM SUPERINTENDENT.

8. STOCKPILE AREA TO BE FULLY FENCED WITH SILT PROOF FABRIC AT ALL TIMES.

9. IMPORTED MATERIAL TO BE PLACED DIRECTLY INTO SITE REGRADING AREAS. IMPORTED MATERIAL IS NOT TO BE STOCKPILED.

10. STOCKPILES ARE TO BE REMOVED AS SOON AS PRACTICABLE AND SITES REINSTATED AS SOON AS POSSIBLE.

11. CONSERVE ALL TOPSOIL, STOCKPILE AND PROTECT FOR RE-USE ON SITE.

12. STOCKPILES OF MATERIAL ARE TO BE PLACED AWAY FROM DRAINAGE FLOW PATHS AND HEAVILY TRAFFICABLE AREAS AND ARE TO BE SURROUNDED BY SILT FENCING AT ALL TIMES.

13. PROTECT ALL DISTURBED AREAS FROM EROSION.

14. MINIMISE SEDIMENTATION.

15. CONSTRUCT STABILISED EARTH BERMS TO DIRECT CLEAN RUNOFF FROM ENTERING THE DISTURBED SITE

16. CONSTRUCT STABILISED DIVERSION BANKS TO COLLECT RUNOFF FROM DISTURBED AREAS AND DIRECT IT TO A SEDIMENT CONTROL PIT.

17. ERECT AND MAINTAIN SILT FENCES AT THE DOWNSLOPE SIDE OF DISTURBED AREAS DURING CONSTRUCTION.

18. PLACE SEDIMENT INLET TRAPS AROUND ALL PITS WITHIN, AND DOWNSTREAM OF, THE DEVELOPMENT.

19. PROVIDE GRAVEL BAGS AS REQUIRED.

20. SILT FENCES AND HAY BALING TO BE PLACED WHERE DIRECTED BY COUNCIL'S ENGINEER AND MAINTAINED AT ALL TIMES.

21. ALL DISTURBED AREAS ARE TO BE STABILISED IMMEDIATELY UPON FINISHING CONSTRUCTION ON THAT AREA WITH BITUMEN STABILIZED STRAW MULCH.

22. WHERE EVIDENCE OF SILT LEAVING THE SITE IS FOUND, CONTRACTOR IS TO CLEAR ALL SEDIMENT (INCLUDING THAT IN STORMWATER INFRASTRUCTURE) AT THEIR OWN COST.

23. FOLLOWING RAIN EVENTS, ALL SEDIMENT AND EROSION CONTROL MEASURES ARE TO BE AUDITED AND REINSTATED IF NECESSARY.

24. CONTROL CLEAN WATER FROM ABOVE THE SITE, THROUGH THE SITE.

25. KEEP CLEAN WATER SEPARATE FROM DIRTY WATER.

26. KEEP RUNOFF FROM DISTURBED AREAS, WHERE POSSIBLE, SEPARATE FROM DIRTY WATER.

27. ALL DISTURBED AREAS ARE TO BE RE-VEGETATED OR OTHERWISE PROTECTED AS SOON AS PRACTICAL.

28. ALL NATURAL VEGETATION AREAS OUTSIDE THE BOUNDARIES OF THE PROPOSED DEVELOPMENT WILL BE FENCED WITH NO GO FENCING TO KEEP THE AREAS FREE FROM DISTURBANCE OF MACHINERY, PARKED VEHICLES AND WASTE MATERIAL.

29. AREAS OUTSIDE THE BOUNDARIES OF THE PROPOSED DEVELOPMENT WILL BE FENCED WITH NO GO FENCING TO KEEP THE AREAS FREE FROM DISTURBANCE OF MACHINERY, PARKED VEHICLES AND WASTE MATERIAL.

30. TREES TO BE RETAINED WITHIN THE CONSTRUCTION AREAS ARE TO BE PROTECTED IN ACCORDANCE WITH AS 4970:2009 BY TREE PROTECTION FENCING IN ACCORDANCE WITH THE APPROVED LANDSCAPE MANAGEMENT PLANS

31. ESTABLISH A RESTRICTION BOUNDARY AROUND PROTECTED PLANT WITH PARAWEB FENCING. TEMPORARILY RELOCATE FENCE TO ALLOW CONSTRUCTION OF REQUIRED WORKS AND RE-ESTABLISH PROTECTION ZONE AFTER WORKS COMPLETES.

GENERAL

1. ALL WORKS SHALL BE CARRIED OUT IN ACCORDANCE WITH THE APPROVED PLANS, SUBJECT TO RYDE COUNCIL DCP 2014 SECTIONS 8.1, 8.2 + 8.5, MACQUARIE PARK CORRIDOR TECHNICAL MANUAL, COUNCIL STANDARD DRAWINGS AND RELEVANT AUSTRALIAN STANDARDS.

2. SETOUT INFORMATION IS TO BE VERIFIED BY THE CONTRACTOR AGAINST THE PLAN VIEW, LONGITUDINAL SECTIONS, AND ELECTRONIC 12d DATA BEFORE BEING USED. IF THERE IS A DISCREPANCY, THE SUPERINTENDENT IS TO BE NOTIFIED AND DIRECTION WILL BE PROVIDED IN WRITING BEFORE PROCEEDING.

3. THE DRAWINGS ARE A DIAGRAMMATIC REPRESENTATION OF THE WORK TO BE CARRIED OUT ONLY, AND DIMENSIONS SHALL NOT BE OBTAINED BY SCALING.

4. ALL LEVELS SHALL BE OBTAINED FROM ESTABLISHED BENCHMARKS TO THE **AUSTRALIAN HEIGHT DATUM (A.H.D.)**.

5. POINTS OF CONFLICT BETWEEN NEW CONSTRUCTION AND EXISTING UTILITY SERVICE MAINS SHALL BE IDENTIFIED, EXPOSED AND REPORTED TO THE PROJECT MANAGER PRIOR TO CONSTRUCTION. SERVICE CONDUITS SHALL BE LAID IN POSITIONS AS APPROVED BY THE RELEVANT AUTHORITY.

6. ALL MATERIALS AND PRODUCTS FOR INSTALLATION AND CONSTRUCTION SHALL COMPLY WITH AUSTRALIAN STANDARDS.

7. THE INSPECTION, SUPERVISION AND REPORTING REQUIREMENTS OF A SUITABLY QUALIFIED ECOLOGIST REGARDING THE REMOVAL AND RELOCATION OF ANY THREATENED FAUNA SPECIES SHALL BE UNDERTAKEN AS PER RELEVANT CONDITIONS OF CONSENT.

8. STORMWATER AND SEWER CONNECTIONS TO LOT 11 DP1247523 TO BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION.

SURVEYING

1. SURVEY BY: ADW JOHNSON PTY LTD

2. ORIGIN OF COORDINATES: GDA94 MGA56 BENCH MARK P.M.50023 E:325216.337 N:6260317.86 RL.80.785 AHD

3. ALL WORK TO BE SET OUT BY A REGISTERED SURVEYOR

4. ALL LEVELS SHOWN ARE A.H.D. GDA94

REV.	DATE	AMENDMENT	DESIGN	DRAWN	CHECKED	APPROVED	SCALES				
1	21.01.22	ISSUED FOR CONSTRUCTION	B.M.	J.J.	B.M.	B.M.					
DESIGN FILE S:\300001\DESIGN\12\STAGE 2 CC\DESIGN FILE.project			ALL DIMENSIONS ARE IN METRES. DO NOT SCALE								

adwJohnson

Central Coast
5 Pioneer Avenue,
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Fax: (02) 4305 4399
email: coast@adwjohnson.com.au
www.adwjohnson.com.au
ABN 62 129 445 398

CLIENT

PROPERTY DESCRIPTION

LOT 100 D.P.1262209 & LOT 1 D.P.859537
EPPING ROAD & LYONPARK ROAD,
MACQUARIE PARK
SSDA 8903

SURVEYED
ADW Johnson

DATUM
GDA94 M.G.A. ZONE 56 A.H.D.

PROJECT

PROPOSED SUBDIVISION

PLAN TITLE

GENERAL NOTES

PROJECT No.
300001(2) -

DISCIPLINE
ENG -

NUMBER
002

REV.
1

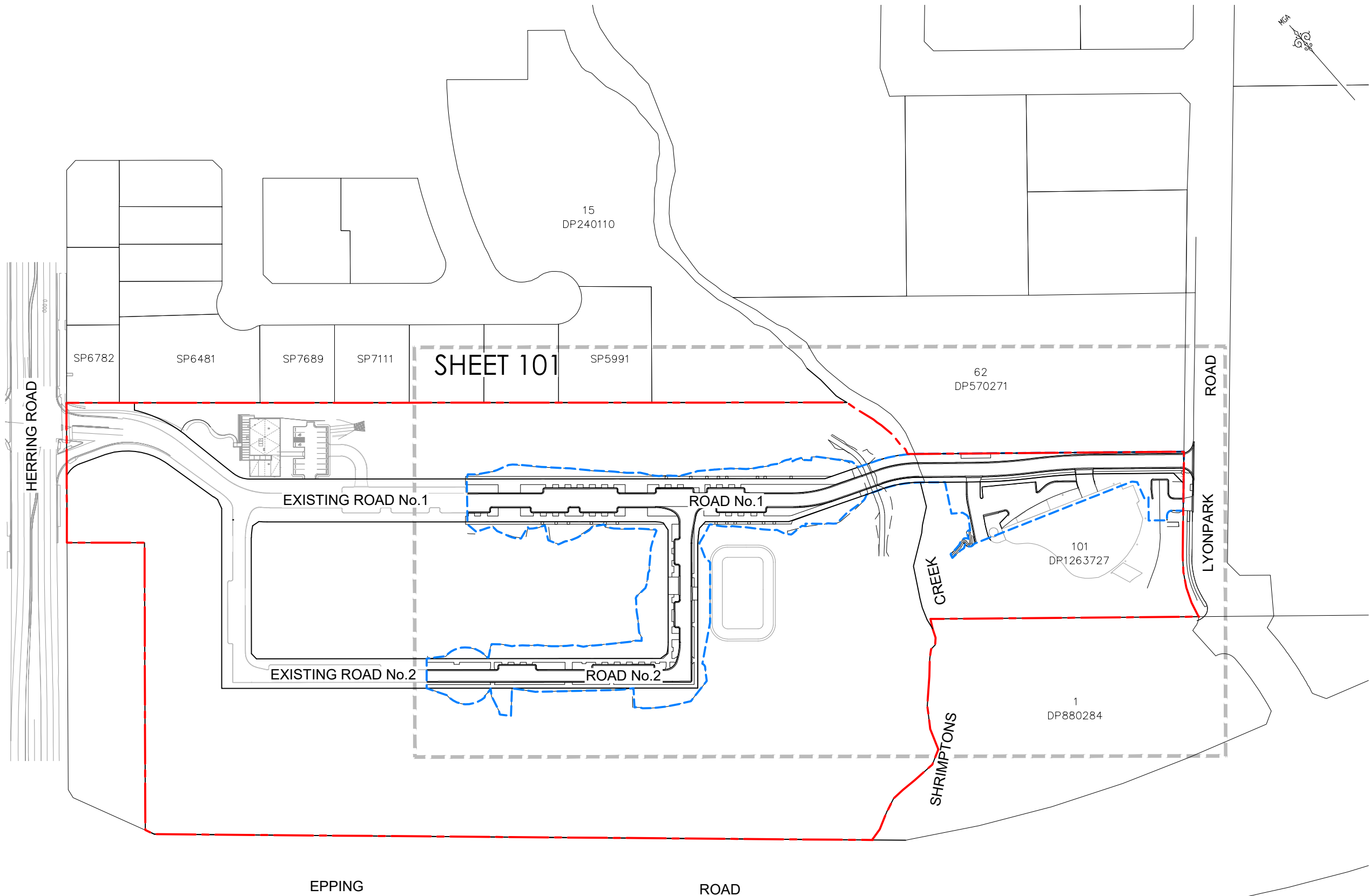
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LDC

These plans are referred to in certificate no. **16746** approved by:
Eric Hausfeld
Registered Certifier
Registration No: BDC 2416
Categories: Certifier – Subdivision
Certifier – Strata
Certifier – Stormwater
Certifier – Road & Drainage
Certifier – Hydraulic (stormwater)

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CONSTRUCTION ISSUE



LEGEND

- SITE BOUNDARY
- LIMIT OF WORKS BOUNDARY
- PROPOSED LOT BOUNDARY
- EXISTING LOT BOUNDARY
- FUTURE WORKS

GENERAL NOTES: -

1. BUILDING LAYOUTS SHOWN FOR INFORMATION ONLY

EPPING

ROAD

OVERALL SITE PLAN
SCALE 1:1000

LDC

These plans are referred to in certificate no. **16746** approved by:

Eric Hausfeld
Registered Certifier

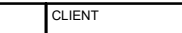
Registration No: BDC 2416

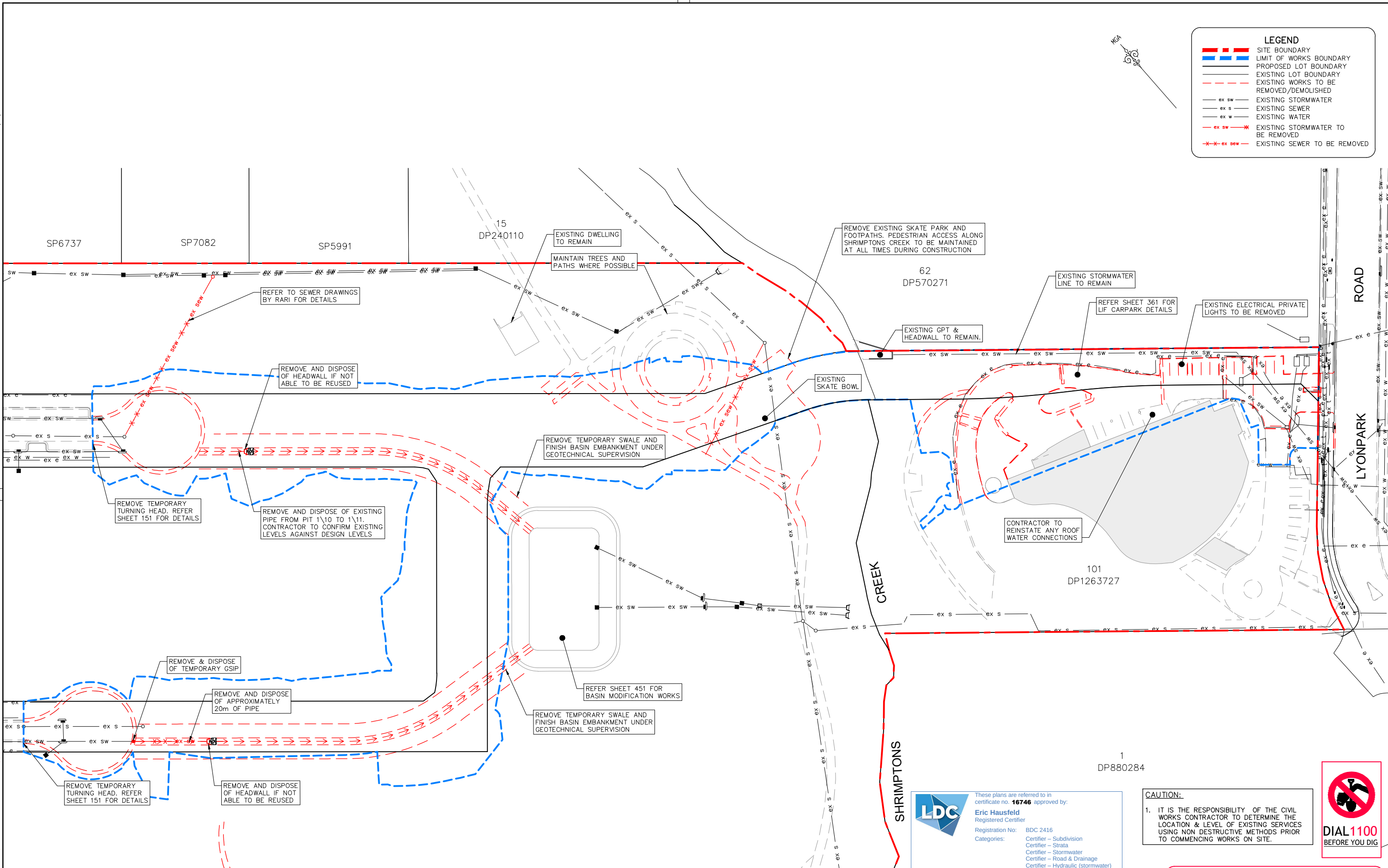
Categories: Certifier - Subdivision
Certifier - Strata
Certifier - Stormwater
Certifier - Road & Drainage
Certifier - Hydraulic (stormwater)

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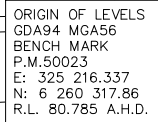


CONSTRUCTION ISSUE

REV.	DATE	AMENDMENT	DESIGN	DRAWN	CHECKED	APPROVED	SCALES		Central Coast 5 Pioneer Avenue, P.O. Box 3717, Tuggerah N.S.W. 2259 Phone: (02) 4305 4300 Fax: (02) 4305 4399 email: coast@adwjohnson.com.au www.adwjohnson.com.au ABN 62 129 445 398		CLIENT	PROPERTY DESCRIPTION			PROJECT									
1	21.01.22	ISSUED FOR CONSTRUCTION	B.M.	J.J.	B.M.	B.M.	A1 1:1000 0 25 50m A3 1:2000 					LOT 100 D.P.1262209 & LOT 1 D.P.859537 EPPING ROAD & LYONPARK ROAD, MACQUARIE PARK SSDA 8903			PROPOSED SUBDIVISION									
DESIGN FILE S:\300001\DESIGN\12D\STAGE 2 CC\DESIGN FILE.project												ALL DIMENSIONS ARE IN METRES. DO NOT SCALE			PLAN TITLE OVERALL SITE PLAN									
											SURVEYED ADW Johnson			DATUM GDA94 M.G.A. ZONE 56 A.H.D.			PROJECT No. 300001(2) -		DISCIPLINE ENG -		NUMBER 003		REV. 1	



DEMOLITION PLAN										Land Development Certificates www.LDC.com.au		CONSTRUCTION ISSUE								
SCALE 1:500																				
REV.	DATE	AMENDMENT	DESIGN	DRAWN	CHECKED	APPROVED	SCALES		Central Coast 5 Pioneer Avenue, P.O. Box 3717, Tuggerah N.S.W. 2259 Phone: (02) 4305 4300 Fax: (02) 4305 4399 email: coast@adwjohnson.com.au www.adwjohnson.com.au ABN 62 129 445 398	CLIENT		PROPERTY DESCRIPTION		PROJECT						
1	21.01.22	ISSUED FOR CONSTRUCTION	B.M.	J.J.	B.M.	B.M.						LOT 100 D.P.1262209 and LOT 1 D.P.859537 EPPING ROAD & LYONPARK ROAD, MACQUARIE PARK SSDA 8903		PROPOSED SUBDIVISION						
													PLAN TITLE		DEMOLITION PLAN					
DESIGN FILE S:\300001\DESIGN\12D\STAGE 2 CC\DESIGN FILE.project							ALL DIMENSIONS ARE IN METRES. DO NOT SCALE						SURVEYED ADW Johnson		DISCIPLINE ENG		NUMBER 004		REV. 1	
Plotted By: Ben Myles Plot Date: 21/01/22 2:27:50PM Cad File: S:\300001\DRAWINGS\ENGINEERING\CIVIL\STAGE 2 CC\ENG\300001(2)-ENG-004.DWG													DATUM GDA94 M.G.A. ZONE 56 A.H.D.		PROJECT No. 300001(2) -					



SCALE 1:1000

CALES

0 25 50m

A1 1:1000 A3 1:2000



	These plans are referred to in certificate no. 16746 approved by: Eric Hausfeld Registered Certifier Registration No: BDC 2416 Categories:	Certifier – Subdivision Certifier – Strata Certifier – Stormwater Certifier – Road & Drainage Certifier – Hydraulic (stormwater)
Land Development Certificates www.LDC.com.au		

PT	EASTING	NORTHING
1	325500.601	6260621.247
2	325455.634	6260569.639
3	325484.250	6260544.583
4	325391.772	6260438.438
5	325393.752	6260434.044
6	325498.610	6260340.620
7	325656.689	6260199.860
8	325788.306	6260369.432



CONSTRUCTION ISSUE

PROPERTY DESCRIPTION LOT 100 D.P.1262209 & LOT 1 D.P.859537 EPPING ROAD & LYONPARK ROAD, MACQUARIE PARK SSDA 8903				PROJECT				PROPOSED SUBDIVISION			
				PLAN TITLE				SURVEY SETOUT PLAN			
SURVEYED		DATUM		PROJECT No.		DISCIPLINE		NUMBER		REV.	
ADW Johnson		GDA94 M.G.A. ZONE 56 A.H.D.		300001(2) -		ENG -		005		1	

GENERAL - STRUCTURAL

- 1.THESE DRAWINGS SHALL BE READ IN CONJUNCTION WITH THE CIVIL ENGINEERING PLANS, AND OTHER CONSULTANTS' DRAWINGS AND SPECIFICATIONS. ANY DISCREPANCY SHALL BE REFERRED TO THE ENGINEER BEFORE PROCEEDING WITH THE WORK. CONSTRUCTION FROM THESE DRAWINGS, AND THEIR ASSOCIATED CONSULTANTS' DRAWINGS IS NOT TO COMMENCE UNTIL APPROVED BY THE LOCAL AUTHORITIES.
- 2.ALL MATERIALS AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE RELEVANT AND CURRENT AUSTRALIAN STANDARDS.
- 3.ALL DIMENSIONS SHOWN SHALL BE VERIFIED BY THE BUILDER ON SITE. ENGINEERS' DRAWINGS SHALL NOT BE SCALED FOR DIMENSIONS.
- 4.DURING CONSTRUCTION STRUCTURES SHALL BE MAINTAINED IN A STABLE CONDITION AND NO PART SHALL BE OVERSTRESSED. TEMPORARY BRACING SHALL BE PROVIDED BY THE CONTRACTOR TO KEEP THE WORKS AND EXCAVATIONS STABLE AT ALL TIMES.
- 5.UNLESS NOTED OTHERWISE ALL LEVELS ARE IN METRES AND ALL DIMENSIONS ARE IN MILLIMETRES.
- 6.THE DRAWINGS SHALL NOT BE USED FOR SETOUT PURPOSES. CONTRACTOR IS TO REFER TO CURRENT CIVIL ENGINEERING PLANS FOR SETOUT INFORMATION.
- 7.POINTS OF CONFLICT BETWEEN NEW CONSTRUCTION AND EXISTING UTILITY SERVICE MAINS SHALL BE IDENTIFIED, EXPOSED AND REPORTED TO THE PROJECT ENGINEER PRIOR TO CONSTRUCTION.

FOUNDATIONS

- 1.STORMWATER PIT BASES AND RETAINING WALL FOOTINGS HAVE BEEN DESIGNED FOR AN ALLOWABLE BEARING CAPACITY OF 150kPa ON STIFF CLAY (U.N.O.) THE FOUNDATION MATERIAL SHALL BE APPROVED BY THE GEOTECHNICAL ENGINEER FOR THIS BEARING CAPACITY BEFORE PLACING MEMBRANE, REINFORCEMENT OR CONCRETE.
- 2.REFER TO GEOTECHNICAL INVESTIGATION REPORT No. 86043.02.R.001.Rev0 PREPARED BY DOUGLAS PARTNERS DATED 23 APRIL 2018 AND 86043.01.R.003.Rev0 PREPARED BY DOUGLAS PARTNERS DATED 22 DEC 2017.
- 3.FOOTINGS SHALL BE LOCATED CENTRALLY UNDER WALLS AND COLUMNS UNLESS NOTED OTHERWISE.
- 4.DO NOT EXCEED A RISE OF 1 IN A RUN OF 2 FOR THE LINE OF SLOPE BETWEEN ADJACENT FOOTINGS OR EXCAVATIONS.
- 5.FOOTINGS TO BE CONSTRUCTED AND BACKFILLED AS SOON AS POSSIBLE FOLLOWING EXCAVATION TO AVOID SOFTENING OR DRYING OUT BY EXPOSURE.
- 6.ALL FOUNDATION MATERIAL TO BE COMPACTED TO THE EQUIVALENT OF 98% STANDARD OR 70% RELATIVE DENSITY TO AS1289 AND TESTED PRIOR TO INSTALLATION OF FOUNDATION.

LOADING

- 1.THE STRUCTURAL COMPONENTS DETAILED ON THESE DRAWINGS HAVE BEEN DESIGNED IN ACCORDANCE WITH THE RELEVANT AUSTRALIAN STANDARDS FOR THE FOLLOWING LOADINGS:
- RETAINING WALLS
SURCHARGE LOAD = 5 kPa GENERALLY (20kPa WHERE TRAFFICABLE ROAD BEHIND WALL)
- STORMWATER PITS
SURCHARGE LOAD = 20 kPa
- 2.WIND LOADS ARE IN ACCORDANCE WITH AS 1170.2 AS FOLLOWS:
- IMPORTANCE LEVEL: 2
BASIC WIND VELOCITY, Vp = 45m/s
REGION: 2
TERRAIN CATEGORY: TC3

FORMWORK

- 1.THE DESIGN CERTIFICATE CONSTRUCTION AND PERFORMANCE OF THE FORMWORK AND FALSE WORK SHALL BE THE RESPONSIBILITY OF THE BUILDER, EXCEPT TO THE EXTENT THAT FORMWORK DESIGN IS SHOWN ON THE DRAWINGS.
- 2.FORMWORK DESIGN, CONSTRUCTION TOLERANCES AND STRIPPING TIMES SHALL COMPLY WITH AS 3610 AND AS 3600 UNLESS OTHERWISE APPROVED BY THE ENGINEER.
- 3.DURING CONSTRUCTION, SUPPORT PROPPING WILL BE REQUIRED WHERE LOADS FROM STACKED MATERIALS, FORMWORK AND OTHER SUPPORTED SLABS INDUCE LOADS IN A SLAB OR BEAM WHICH EXCEED THE DESIGN LOAD FOR STRENGTH OR SERVICEABILITY AT THAT AGE. ONCE THE NOMINATED 28 DAY STRENGTH HAS BEEN ATTAINED, THESE LOADS SHALL NOT EXCEED THE DESIGN SUPERIMPOSED LOADS SET OUT IN THE LOADING NOTES.
- 4.THE FORMWORK SHALL NOT BE DESIGNED TO ACCOMMODATE MOVEMENTS ON RESTRAINT OR SUPPORT FROM THE PERMANENT STRUCTURE WITHOUT PRIOR APPROVAL FROM THE PROJECT DESIGN ENGINEER.

FORMWORK (CONTINUED)

- 5.CONCRETE FORMED SURFACES TO HAVE FINISHES IN ACCORDANCE WITH AS 3610.
- 6.DO NOT PLACE PERMANENT LOADS, INCLUDING MASONRY WALL AND THE LIKE, ON THE CONCRETE STRUCTURE UNTIL AFTER FORMWORK AND PROPPING IS REMOVED.
- 7.SPECIAL REQUIREMENTS FOR SEQUENCE OF CONCRETE PLACEMENT AND STRIPPING ARE AS FOLLOWS:
DESIGN INFORMATION CONCERNING THE FOUNDATION FORMWORK SHALL BE DETERMINED FROM THE CONDITIONS EXISTING ON THE SITE AT THE TIME OF CONSTRUCTION. REFER ALSO TO THE GEOTECHNICAL REPORT WHERE AVAILABLE.

MASONRY

- 1.ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH AS 3700.
- 2.STRENGTHS OF BRICKS, CLASS OF BLOCKS AND TYPE OF MORTAR SHALL BE AS FOLLOWS: -

ELEMENT	MATERIAL	CHARACTERISTIC UNCONFINED COMPRESSIVE STRENGTH, fuc	MORTAR CLASSIFICATION
SANDSTONE LOGS	NATURAL STONE	-	N/A
CORE FILLED BLOCKS	CONCRETE	15 MPa	M4
MASS ROCK	NATURAL STONE	-	N/A

- 3.MORTAR ADMIXTURES SHALL NOT BE USED WITHOUT THE WRITTEN APPROVAL OF THE ENGINEER.
- 4.ALL MASONRY WALLS SHALL HAVE A PRE-GREASED GALVANISED STEEL SLIP JOINT BETWEEN CONCRETE SOFFIT AND THE TOP OF THE MASONRY ELEMENT U.N.O. OR TWO LAYERS OF SUPER ALCOR.
- 5.NO CHASES OR RECESSES ARE PERMITTED IN LOAD BEARING MASONRY WITHOUT THE APPROVAL OF THE ENGINEER.
- 6.REINFORCED CONCRETE BLOCKWORK SHALL COMPLY WITH THE FOLLOWING U.N.O.:
- BLOCKS SHALL BE STRENGTH GRADE 15 CONFORMING TO AS 4455.
 - MORTAR SHALL COMPRISE 1 CEMENT : 0.25 LIME : 3 SAND.
 - PROVIDE CLEANOUT HOLES AT BASE OF ALL WALLS AND ROD CORE HOLES TO REMOVE PROTRUDING MORTAR FINS.
 - CORE FILLING GROUT TO HAVE A CHARACTERISTIC STRENGTH OF 20MPa, 10mm AGGREGATE, 230mm SLUMP ±30mm.
 - PROVIDE 65mm COVER TO REINFORCING BARS FROM THE OUTSIDE FACE OF THE BRICKWORK TO ALLOW ADEQUATE GROUT COVER.
- 7.PROVIDE VERTICAL CONTROL JOINTS AT 10m MAX CENTRES, AND 5m MAXIMUM FROM CORNERS IN ALL MASONRY WALLS.
- 8.BACKFILL TO RETAINING WALLS TO BE FREE DRAINING GRANULAR MATERIAL U.N.O. PROVIDE SUBSOIL DRAIN TO WEEP HOLES.
- 9.ALL CAVITY CONSTRUCTION TO HAVE STAINLESS STEEL WALL TIES INSTALLED AS PER CLAUSE 4.10 AS 3700.
- 10.MAXIMUM HEIGHT OF BLOCK WORK TO BE POURED IN ONE LIFT TO BE 1200mm.
- 11.BACKFILL SHOULD NOT BE PLACED BEHIND THE WALL UNTIL ATLEAST TEN DAYS AFTER GROUTING.

CONCRETE

- 1.ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH AS 3600 CURRENT EDITION WITH AMENDMENTS, EXCEPT WHERE VARIED BY THE CONTRACT DOCUMENTS.
- 2.READYMIX CONCRETE SUPPLY SHALL COMPLY WITH AS 1379.
- 3.CONCRETE QUALITY ALL THE REQUIREMENTS OF THE ACSE CONCRETE SPECIFICATION DOCUMENT 1 (EDITION 6) SHALL APPLY TO THE FORMWORK, REINFORCEMENT AND CONCRETE UNLESS NOTED OTHERWISE.
- 4.PROJECT CONTROL TESTING SHALL BE CARRIED OUT IN ACCORDANCE WITH AS 1012
- 5.NO ADMIXTURES SHALL BE USED IN CONCRETE UNLESS APPROVED IN WRITING.

CONCRETE (CONTINUED)

- 6.CLEAR CONCRETE COVER TO ALL REINFORCEMENT FOR DURABILITY SHALL BE AS FOLLOWS UNLESS SHOWN OTHERWISE.

STRUCTURAL ITEM	CONCRETE GRADE (MPa)	CAST AGAINST GROUND (mm)	EXPOSURE TO FLOWING WATER / ATMOSPHERE (mm)
STORMWATER PIT BASE /LID	32	50	50
STORMWATER PIT WALLS	32	50	50
FOOTINGS	25	50	-
PIERS	25	75	-
BRIDGING SLAB	32	50	40
CONCRETE RETAINING WALL	32	50	40

- 7.ALL REINFORCEMENT SHALL BE FIRMLY SUPPORTED ON MILD STEEL PLASTIC TIPPED CHAIRS, PLASTIC CHAIRS OR CONCRETE CHAIRS AT NOT GREATER THAN 1 METRE CENTRES BOTH WAYS. BARS SHALL BE TIED AT ALTERNATE INTERSECTIONS. IN EXPOSURE CONDITIONS GREATER THAN B1 USE ONLY PLASTIC CHAIRS.
- 8.CONCRETE SIZES SHOWN DO NOT INCLUDE THICKNESSES OF APPLIED FINISHES.
- 9.NO HOLES, CHASES OR EMBEDMENT OF PIPES OTHER THAN THOSE SHOWN ON THE STRUCTURAL DRAWINGS SHALL BE MADE IN CONCRETE MEMBERS WITHOUT THE PRIOR WRITTEN APPROVAL OF THE ENGINEER.
- 10.CONSTRUCTION JOINTS WHERE NOT SHOWN SHALL BE LOCATED TO THE APPROVAL OF THE ENGINEER.
- 11.THE FINISHED CONCRETE SHALL BE A DENSE HOMOGENEOUS MASS, COMPLETELY FILLING THE FORMWORK THOROUGHLY EMBEDDING THE REINFORCEMENT AND FREE OF STONE POCKETS. ALL CONCRETE INCLUDING SLABS ON GROUND AND FOOTINGS SHALL BE COMPACTED WITH MECHANICAL VIBRATORS.
- 12.CURING OF ALL CONCRETE IS TO BE ACHIEVED BY KEEPING SURFACES CONTINUOUSLY WET FOR A PERIOD OF 3 DAYS, AND PREVENTION OF LOSS OF MOISTURE FOR A TOTAL OF 7 DAYS FOLLOWED BY A GRADUAL DRYING OUT. APPROVED SPRAYED ON CURING COMPOUNDS THAT COMPLY WITH AS 3799 MAY BE USED WHERE FLOOR FINISHES WILL NOT BE AFFECTED (REFER MANUFACTURER'S SPECIFICATION). POLYTHENE SHEETING OR WET HESSIAN MAY BE USED TO RETAIN CONCRETE MOISTURE WHERE NOT PROTECTED FROM WIND AND TRAFFIC.
- 13.CONSTRUCTION SUPPORT PROPPING IS TO BE LEFT IN PLACE WHERE NEEDED TO AVOID OVERSTRESSING THE STRUCTURE DUE TO CONSTRUCTION LOADING.
- 14.THE ENGINEER SHALL BE GIVEN 48 HOURS NOTICE FOR REINFORCEMENT INSPECTION AND CONCRETE SHALL NOT BE DELIVERED UNTIL FINAL APPROVAL OBTAINED.

- 15.REINFORCEMENT SYMBOLS:
- N DENOTES DEFORMED RIBBED BARS, GRADE 500MPa, NORMAL DUCTILITY, NOMINATED BAR SIZE TO AS 4671 U.N.O. eg. N16
- R DENOTES ROUND BARS, GRADE 250MPa, NORMAL DUCTILITY, NOMINATED BAR SIZE TO AS 4671 eg. R10
- SL DENOTES SQUARE MESH, DEFORMED RIBBED BARS, GRADE 500MPa, LOW DUCTILITY, NOMINATED BAR SIZE AND SPACING TO AS 4671, U.N.O. eg. SL92 - 9mm BARS @ 200mm CENTRES
- RL DENOTES RECTANGULAR MESH, DEFORMED RIBBED BARS, GRADE 500MPa, LOW DUCTILITY, NOMINATED BAR SIZE AND SPACING TO AS 4671 U.N.O. eg. RL1018 - 10mm BARS @ 100mm CENTRES, 8mm BARS @ 200mm CENTRES
- TM DENOTES TRENCH MESH, DEFORMED RIBBED BARS, GRADE 500MPa, LOW DUCTILITY, NOMINATED BAR SIZE TO AS 4671 U.N.O. eg. 3-L11TM - 3 11mm BARS @100mm CENTRES LONGITUDINALLY AND CROSS BARS @ 300mm CENTRES

- NUMBER OF BARS IN GROUP
- NOMINAL BAR SIZE IN mm
- 16.REINFORCEMENT IS REPRESENTED DIAGRAMMATICALLY AND NOT NECESSARILY IN TRUE PROJECTION.

- 17.SLAB REINFORCEMENT SHALL EXTEND AT LEAST 65mm ONTO MASONRY SUPPORT WALLS AND 50 PERCENT OF BOTTOM REINFORCEMENT SHALL BE COGGED TO ACHIEVE ANCHORAGE AT SIMPLY SUPPORTED ENDS.
- 18.SPICES IN REINFORCEMENT SHALL BE MADE ONLY IN POSITIONS SHOWN OR OTHERWISE APPROVED IN WRITING BY THE ENGINEER. LAPS SHALL BE IN ACCORDANCE WITH AS 3600 AND NOT LESS THAN THE DEVELOPMENT LENGTH FOR EACH BAR.
- 19.SITE BENDING OF DEFORMED REINFORCING BARS SHALL BE DONE WITHOUT HEATING USING MECHANICAL BENDING TOOLS.
- 20.WELDING OF REINFORCEMENT SHALL NOT BE PERMITTED UNLESS SHOWN ON THE STRUCTURAL DRAWINGS OR APPROVED BY THE ENGINEER.
- 21.JOGGLES TO BAR SHALL BE 1 BAR DIAMETER OVER A LENGTH OF 12 BAR DIAMETERS.
- 22.FABRIC SHALL BE LAPPED 2 TRANSVERSE WIRES PLUS 50mm. BUNDLED BARS SHALL BE TIED TOGETHER AT 30 BAR DIAMETER CENTRES WITH 3 WRAPS OF THE WIRE.

CONCRETE (CONTINUED)

- 23.WHERE TRANSVERSE TIE BARS ARE NOT SHOWN PROVIDE N12-400 SPLICED WHERE NECESSARY AND LAP WITH MAIN BARS 400mm U.N.O.

- 24.REINFORCING LAP/COG LENGTHS

BAR#	LAP(mm)	COG
N12	500	IN ACCORDANCE WITH AS 3600
N16	600	
N20	900	
N24	1200	
N28	1500	

UNLESS NOTED OTHERWISE

- 25.GROUT TO BE 30MPa NON-SHRINK POURABLE GROUT. ALL BLOCKOUTS TO BE REMOVED PRIOR TO INSTALLING GROUT. GROUT AS PART OF BASE PLATE GROUTING.
- 26.ALL SLABS TO BE POURED ON WATERPROOF MEMBRANE UNO. WATERPROOF MEMBRANE TO BE 0.2mm THK PLASTIC MEMBRANE UNO.
- 27.CONCRETE QUALITY:
ALL CEMENT TO BE TYPE SL, SHRINKAGE LIMITED CEMENT IN ACCORDANCE WITH AS 3972, EXCEPT THAT THE MAXIMUM SHRINKAGE OF THE CEMENT IN THE MORTAR TEST SAMPLE IN ACCORDANCE WITH AS 2350 SHALL BE LESS THAN 600 MICROSTAIN.

STRUCTURAL ELEMENT	SLUMP (mm)	MAX. AGG. SIZE (mm)	GRADE (MPa)
FOOTING	80	20	25
PIERS	80	20	25
BRIDGING SLAB	80	20	32
STORMWATER PIT	80	20	32
CONCRETE RETAINING WALL	80	20	32
CONCRETE RETAINING WALL FOOTING	80	20	32



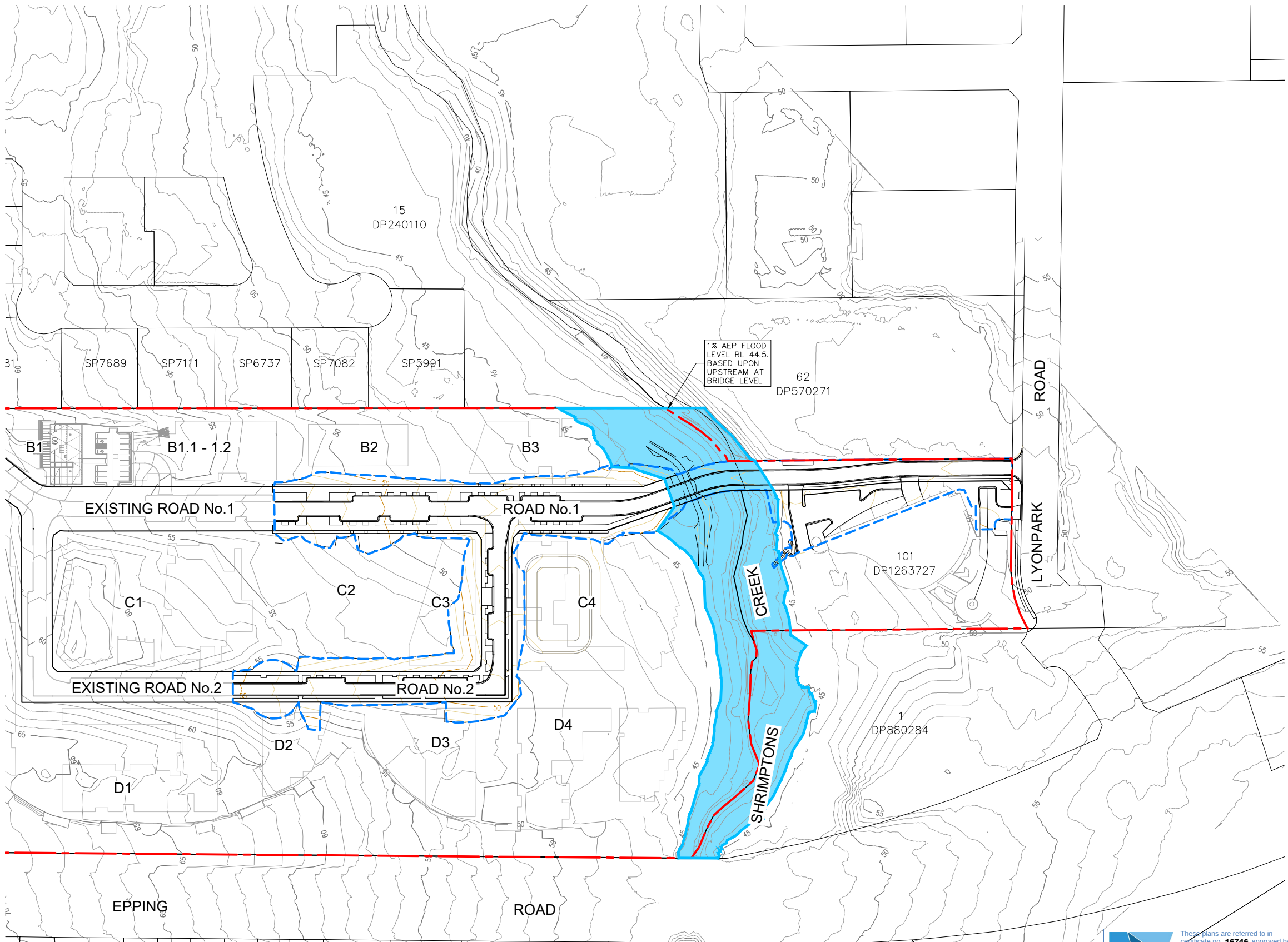
These plans are referred to in certificate no. **16746** approved by:
Eric Hausfeld
Registered Certifier
Registration No: BDC 2416
Categories: Certifier – Subdivision
Certifier – Strata
Certifier – Stormwater
Certifier – Road & Drainage
Certifier – Hydraulic (stormwater)

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CONSTRUCTION ISSUE

REV.	DATE	AMENDMENT	DESIGN	DRAWN	CHECKED	APPROVED	SCALES		Central Coast 5 Pioneer Avenue, P.O. Box 3717, Tuggerah N.S.W. 2259 Phone: (02) 4305 4300 Fax: (02) 4305 4399 email: coast@adwjohnson.com.au www.adwjohnson.com.au ABN 62 129 445 398		CLIENT	PROPERTY DESCRIPTION			PROJECT									
						LOT 100 D.P.1262209 & LOT 1 D.P.859537 EPPING ROAD & LYONPARK ROAD, MACQUARIE PARK SSDA 8903						PROPOSED SUBDIVISION												
												STRUCTURAL NOTES												
DESIGN FILE S:\300001\DESIGN\12D\STAGE 2 CC\DESIGN FILE.project								ALL DIMENSIONS ARE IN METRES. DO NOT SCALE					SURVEYED ADW Johnson		DATUM GDA94 M.G.A. ZONE 56 A.H.D.		PROJECT No. 300001(2) -		DISCIPLINE ENG -		NUMBER 006		REV. 1	



LEGEND

- SITE BOUNDARY
- LIMIT OF WORKS BOUNDARY
- PROPOSED LOT BOUNDARY
- EXISTING LOT BOUNDARY
- FUTURE WORKS
- APPROXIMATE 1% AEP FLOOD EXTENTS

- GENERAL NOTES: -**
- BUILDING LAYOUTS SHOWN FOR INFORMATION ONLY.
 - REFER TO FLOOD REPORT BY BMT FOR FLOOD DETAILS.

FLOOD EXTENTS PLAN
SCALE 1:1000

LDC
These plans are referred to in certificate no. **16746** approved by:
Eric Hausfeld
Registered Certifier
Registration No: BDC 2416
Categories: Certifier - Subdivision
Certifier - Strata
Certifier - Stormwater
Certifier - Road & Drainage
Certifier - Hydraulic (stormwater)
Land Development Certificates
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CONSTRUCTION ISSUE

REV.	DATE	AMENDMENT	DESIGN	DRAWN	CHECKED	APPROVED	SCALES	CLIENT	PROPERTY DESCRIPTION	PROJECT
1	21.01.22	ISSUED FOR CONSTRUCTION	B.M.	J.J.	B.M.	B.M.	A1 1:1000 A3 1:2000	Central Coast 5 Pioneer Avenue, P.O. Box 3717, Tuggerah N.S.W. 2259 Phone: (02) 4305 4300 Fax: (02) 4305 4399 email: coast@adwjohnson.com.au www.adwjohnson.com.au ABN 62 129 445 398	LOT 100 D.P.1262209 & LOT 1 D.P.859537 EPPING ROAD & LYONPARK ROAD, MACQUARIE PARK SSDA 8903	PROPOSED SUBDIVISION
DESIGN FILE S:\300001\DESIGN\12D\STAGE 2 CC\DESIGN FILE.project Plotted By: Ben Myles Plot Date: 21/01/22 2:28:01PM Cad File: S:\300001\DRAWINGS\ENGINEERING\CIVIL\STAGE 2 CC ENG\300001(2)-ENG-007.DWG								ADW Johnson	GDA94 M.G.A. ZONE 56 A.H.D.	PROJECT No. 300001(2) - DISCIPLINE ENG - NUMBER 007 - REV. 1

GENERAL NOTES: -

- FOR TYPICAL ROAD CROSS SECTIONS, KERB PROFILES REFER SHEET 201 AND PAVEMENT DETAILS REFER TO SHEET 151.
- SETOUT INFORMATION IS TO BE VERIFIED BY THE CONTRACTOR AGAINST THE PLAN VIEW, LONGITUDINAL SECTIONS AND ELECTRONIC 12D DATA BEFORE BEING USED. IF THERE IS A DISCREPANCY THE SUPERINTENDENT IS TO BE NOTIFIED AND DIRECTION TO BE PROVIDED IN WRITING BEFORE PROCEEDING.
- REFER TO SHEET 901 FOR COMBINED SERVICES PLAN.
- REFER DRAWINGS PREPARED BY R.A.R.I. FOR SEWER AND WATER DETAILS.



These plans are referred to in certificate no. **16746** approved by:

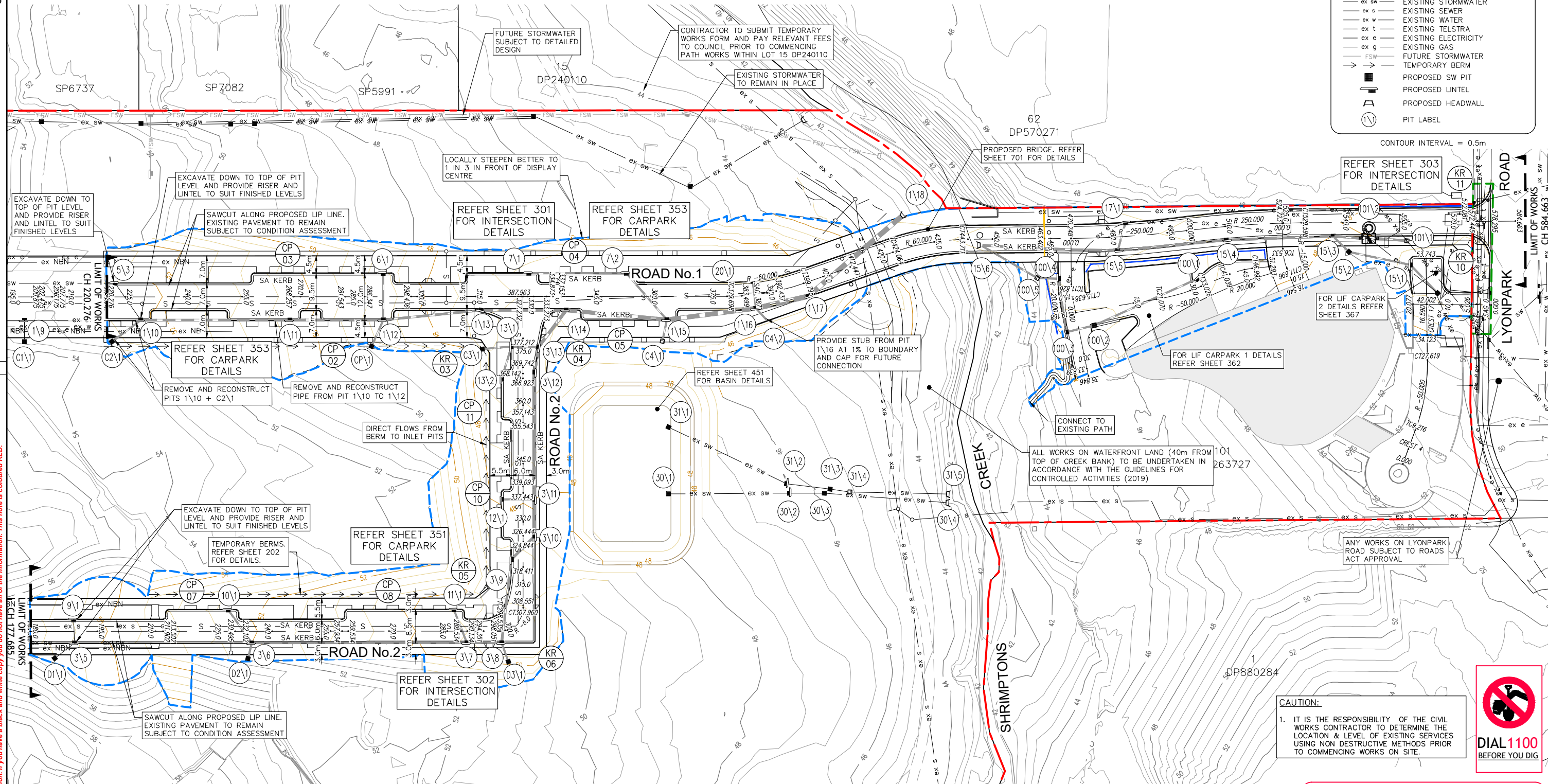
Eric Hausfeld
Registered Certifier

Registration No: BDC 2416

Categories: Certifier - Subdivision
Certifier - Strata
Certifier - Stormwater
Certifier - Road & Drainage
Certifier - Hydraulic (stormwater)

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LEGEND	
	WORKS SUBJECT TO ROADS ACT APPROVAL
	SITE BOUNDARY
	LIMIT OF WORKS BOUNDARY
	PROPOSED LOT BOUNDARY
	EXISTING LOT BOUNDARY
	MAJOR CONTOURS
	MINOR CONTOURS
	PROPOSED KERB
	EXISTING KERB
	PROPOSED SAWCUT
	EXTENTS OF BATTER
	PROPOSED PAVED FOOTPATH
	PROPOSED CONCRETE FOOTPATH
	PROPOSED RETAINING WALL
	PROPOSED STORMWATER
	PROPOSED SEWER
	EXISTING STORMWATER
	EXISTING SEWER
	EXISTING WATER
	EXISTING TELSTRA
	EXISTING ELECTRICITY
	EXISTING GAS
	FUTURE STORMWATER
	TEMPORARY BERM
	PROPOSED SW PIT
	PROPOSED LINTEL
	PROPOSED HEADWALL
	PIT LABEL



DETAIL PLAN

SCALE 1:500

REV.	DATE	AMENDMENT	DESIGN	DRAWN	CHECKED	APPROVED	SCALES
1	21.01.22	ISSUED FOR CONSTRUCTION	B.M.	J.J.	B.M.	B.M.	A1 1:500

0 12.5 25.0m A3 1:1000



Central Coast
5 Pioneer Avenue,
P.O. Box 3717,
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www.adwjohnson.com.au
ABN 62 129 445 398

CLIENT



PROPERTY DESCRIPTION

LOT 100 D.P.1262209 & LOT 1 D.P.859537
EPPING ROAD & LYONPARK ROAD,
MACQUARIE PARK
SSDA 8903

SURVEYED

ADW Johnson

DATUM

GDA94 M.G.A. ZONE 56 A.H.D.

PROJECT

PROPOSED SUBDIVISION

PLAN TITLE

DETAIL PLAN

PROJECT No.

300001(2) -

DISCIPLINE

ENG

NUMBER

101

REV.

1

CAUTION:

- IT IS THE RESPONSIBILITY OF THE CIVIL WORKS CONTRACTOR TO DETERMINE THE LOCATION & LEVEL OF EXISTING SERVICES USING NON DESTRUCTIVE METHODS PRIOR TO COMMENCING WORKS ON SITE.



DIAL 1100
BEFORE YOU DIG

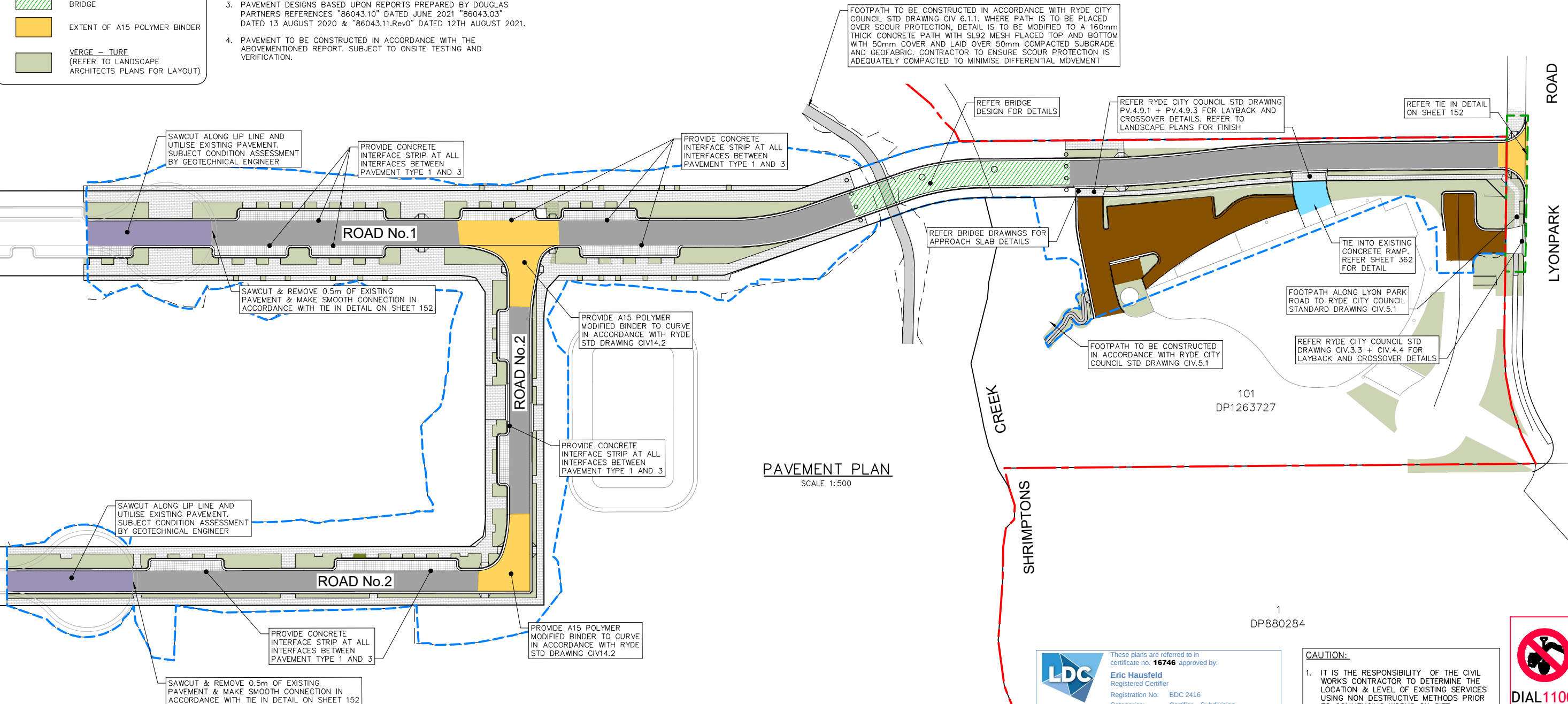
CONSTRUCTION ISSUE

LEGEND

- WORKS SUBJECT TO ROADS ACT APPROVAL
LIMIT OF WORKS BOUNDARY
PROPOSED LOT BOUNDARY
EXISTING LOT BOUNDARY
- PAVEMENT TYPE 1 EXTENT
STANDARD ROAD PAVEMENT
- PAVEMENT TYPE 3 EXTENT
GRANITE PAVING - ROAD
- PAVEMENT TYPE 4 EXTENT
GRANITE PAVING - VERGE
- PAVEMENT TYPE 5 EXTENT
CARPARK PAVEMENT
- PAVEMENT TYPE 6 EXTENT
EXISTING PAVEMENT
- PAVEMENT TYPE 7 EXTENT
CONCRETE PAVEMENT
- PAVEMENT TYPE 8 EXTENT
BRIDGE
- EXTENT OF A15 POLYMER BINDER
- VERGE - TURF
(REFER TO LANDSCAPE ARCHITECTS PLANS FOR LAYOUT)

GENERAL NOTES:-

- FOR TYPICAL ROAD CROSS SECTIONS & KERB PROFILES REFER SHEET 201.
- SETOUT INFORMATION IS TO BE VERIFIED BY THE CONTRACTOR AGAINST THE PLAN VIEW, LONGITUDINAL SECTIONS AND ELECTRONIC 12D DATA BEFORE BEING USED. IF THERE IS A DISCREPANCY THE SUPERINTENDENT IS TO BE NOTIFIED AND DIRECTION TO BE PROVIDED IN WRITING BEFORE PROCEEDING.
- PAVEMENT DESIGNS BASED UPON REPORTS PREPARED BY DOUGLAS PARTNERS REFERENCES "86043.10" DATED JUNE 2021 "86043.03" DATED 13 AUGUST 2020 & "86043.11.Rev0" DATED 12TH AUGUST 2021.
- PAVEMENT TO BE CONSTRUCTED IN ACCORDANCE WITH THE ABOVEMENTIONED REPORT. SUBJECT TO ONSITE TESTING AND VERIFICATION.

PAVEMENT PLAN
SCALE 1:500

These plans are referred to in certificate no. **16746** approved by:

Eric Hausfeld
Registered Certifier

Registration No: BDC 2416

Categories: Certifier - Subdivision
Certifier - Strata
Certifier - Stormwater
Certifier - Road & Drainage
Certifier - Hydraulic (stormwater)

Land Development Certificates
www.LDC.com.au

CAUTION:

- IT IS THE RESPONSIBILITY OF THE CIVIL WORKS CONTRACTOR TO DETERMINE THE LOCATION & LEVEL OF EXISTING SERVICES USING NON DESTRUCTIVE METHODS PRIOR TO COMMENCING WORKS ON SITE.



DIAL1100
BEFORE YOU DIG

CONSTRUCTION ISSUE

REV.	DATE	AMENDMENT	DESIGN	DRAWN	CHECKED	APPROVED	SCALES
1	21.01.22	ISSUED FOR CONSTRUCTION	B.M.	J.J.	B.M.	B.M.	A1 1:500 A3 1:1000

ALL DIMENSIONS ARE IN METRES. DO NOT SCALE



Central Coast
5 Pioneer Avenue,
P.O. Box 3717,
Tuggerah N.S.W. 2259
Phone: (02) 4305 4300
Fax: (02) 4305 4399
email: coast@adwjohnson.com.au
www.adwjohnson.com.au
ABN 62 129 445 398

CLIENT



PROPERTY DESCRIPTION

LOT 100 D.P.1262209 & LOT 1 D.P.859537
EPPING ROAD & LYONPARK ROAD,
MACQUARIE PARK
SSDA 8903

SURVEYED

ADW Johnson

DATUM

GDA94 M.G.A. ZONE 56 A.H.D.

PROJECT

PROPOSED SUBDIVISION

PLAN TITLE

PAVEMENT PLAN

PROJECT No.

300001(2) -

DISCIPLINE

ENG

NUMBER

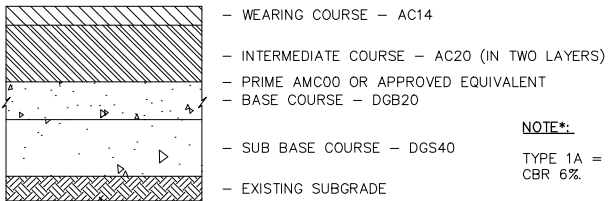
151

REV.

1

GENERAL NOTES:—

- FOR TYPICAL ROAD CROSS SECTIONS & KERB PROFILES REFER SHEET 201.
- SETOUT INFORMATION IS TO BE VERIFIED BY THE CONTRACTOR AGAINST THE PLAN VIEW, LONGITUDINAL SECTIONS AND ELECTRONIC 12D DATA BEFORE BEING USED. IF THERE IS A DISCREPANCY THE SUPERINTENDENT IS TO BE NOTIFIED AND DIRECTION TO BE PROVIDED IN WRITING BEFORE PROCEEDING.
- PAVEMENT DESIGNS BASED UPON REPORTS PREPARED BY DOUGLAS PARTNERS REFERENCES "86043.10" DATED JUNE 2021 "86043.03" DATED 13 AUGUST 2020 & "86043.11.Rev0" DATED 12TH AUGUST 2021.
- PAVEMENT TO BE CONSTRUCTED IN ACCORDANCE WITH THE ABOVEMENTIONED REPORT. SUBJECT TO ONSITE TESTING AND VERIFICATION.



NOTE*:
TYPE 1A = TYPE 1 WITH
CBR 6%.

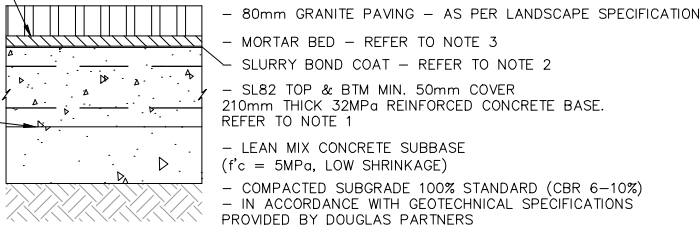
PAVEMENT TYPE 1 — STANDARD ROAD PAVEMENT*
N.T.S.

PROVIDE GRANITE PAVER
ADHESIVE OVER MORTAR
BED. REFER NOTE 4

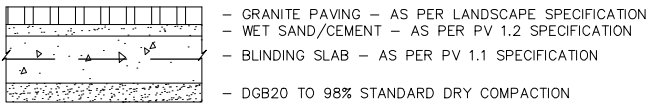
PROVIDE A BITUMEN
SEAL OVER THE LEAN
MIX SUBBASE TO
DEBOND SUBBASE
FROM CONCRETE BASE

NOTE:

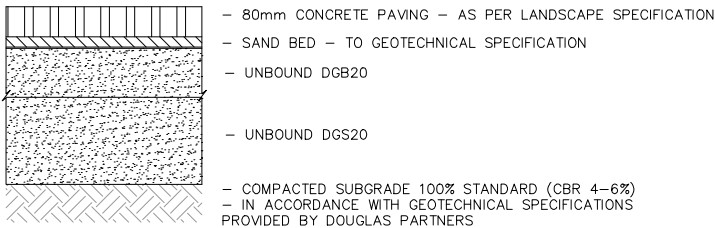
JOINTING OF CONCRETE
BASE SLAB TO BE IN
ACCORDANCE WITH PV
3.1–3.6



PAVEMENT TYPE 3 — GRANITE PAVERS — ROAD
N.T.S.



PAVEMENT TYPE 4 — GRANITE PAVERS VERGE
N.T.S.



PAVEMENT TYPE 5 — PAVERS — LIF CARPARK
N.T.S.



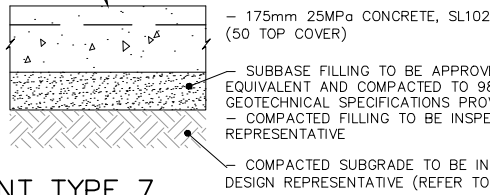
These plans are referred to in
certificate no. **16746** approved by:
Eric Hausfeld
Registered Certifier
Registration No: BDC 2416
Categories: Certifier – Subdivision
Certifier – Strata
Certifier – Stormwater
Certifier – Road & Drainage
Certifier – Hydraulic (stormwater)

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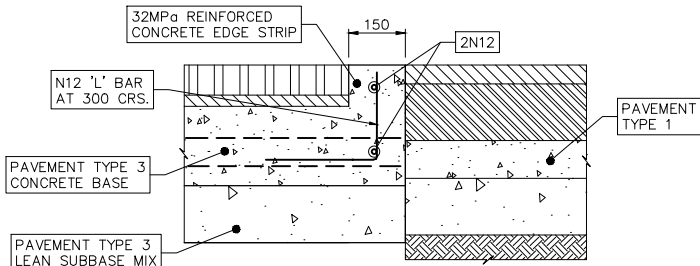
SUBGRADE NOTES:—

- THE EXISTING SUBGRADE WHERE CONSIDERED TO BE 'UNCONTROLLED' IS TO BE STRIPPED BACK TO NATURAL MATERIAL. RETAIN THE EXCAVATED MATERIAL IN SEPARATE STOCKPILES FOR ASSESSMENT FOR POSSIBLE RE-USE.
- COMPACT STIFF CLAY SUBGRADE TO 100% STANDARD COMPACTION (CBR 6–10%) IN ACCORDANCE WITH REQUIREMENTS IN GEOTECH REPORT No.86043.02.R.001 (Rev0).
- PLACE APPROVED COMPACTABLE FILL MATERIAL (TO BE APPROVED BY QUALIFIED GEOTECHNICAL ENGINEER) IN 250mm LOOSE LAYERS AND COMPACTED TO 100% STANDARD COMPACTION (CBR 6–10%) IN ACCORDANCE WITH REQUIREMENTS IN GEOTECH REPORT No.86043.02.R.001 (Rev0).
- COMPACTED SUBGRADE TO BE INSPECTED AND VERIFIED BY A GEOTECHNICAL DESIGN REPRESENTATIVE DURING THE TIME OF COMPACTION. GEOTECHNICAL ENGINEER CONFIRMATION OF THE PAVEMENT DESIGN TO BE PROVIDED TO THE PRINCIPAL CERTIFIER FOLLOWING CBR TESTING OF THE SUBGRADE PRIOR TO PLACEMENT OF PAVEMENT MATERIALS.

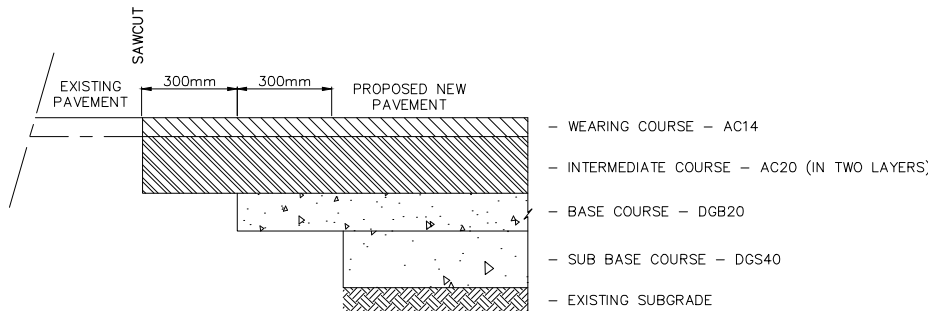
REFER TO RYDE COUNCIL
STD DRAWING CIV 4.4
FOR CONCRETE FINISH



PAVEMENT TYPE 7
— CONCRETE PAVEMENT
N.T.S.



INTERFACE STRIP DETAIL
N.T.S.



TYPICAL TIE IN DETAIL
N.T.S.

TABLE OF PAVEMENT

ROAD	TREATMENT LAYER	SUBBASE	BASECOURSE	INTERMEDIATE LAYER	WEARING COURSE	TOTAL
PAVEMENT TYPE 1 (CBR 10%)	—	150mm	100mm	150mm	50mm	450mm
PAVEMENT TYPE 1A (CBR 6%)	200mm	150mm	100mm	170mm	50mm	670mm
PAVEMENT TYPE 3 (CBR 6–10%)	—	150mm	210mm	30mm	80mm	470mm
PAVEMENT TYPE 4 (CBR 6–10%)	—	50mm	125mm	30mm	60mm	265mm
PAVEMENT TYPE 5 (CBR 4%)	—	320mm	120mm	20mm	80mm	530mm
PAVEMENT TYPE 5 (CBR 6%)	—	230mm	120mm	20mm	80mm	450mm
PAVEMENT TYPE 7 (CBR 6%)	—	100mm	175mm	—	—	275mm



CONSTRUCTION ISSUE

REV.	DATE	AMENDMENT	DESIGN	DRAWN	CHECKED	APPROVED	SCALES	CLIENT	PROPERTY DESCRIPTION	PROJECT
1	21.01.22	ISSUED FOR CONSTRUCTION	B.M.	J.J.	B.M.	B.M.	NOT TO SCALE	Central Coast 5 Pioneer Avenue, P.O. Box 3717, Tuggerah N.S.W. 2259 Phone: (02) 4305 4300 Fax: (02) 4305 4399 email: coast@adwjohnson.com.au www.adwjohnson.com.au ABN 62 129 445 398	LOT 100 D.P.1262209 & LOT 1 D.P.859537 EPPING ROAD & LYONPARK ROAD, MACQUARIE PARK SSDA 8903	PROPOSED SUBDIVISION
DESIGN FILE S:\300001\DESIGN\12D\STAGE 2 CC\DESIGN FILE.project								ADW Johnson	GDA94 M.G.A. ZONE 56 A.H.D.	PROJECT No. 300001(2) — DISCIPLINE ENG — NUMBER 152 — REV. 1

GENERAL NOTES: -

- THIS PLAN SHOWS LANDSCAPE AND RETAINING WALL SUBSOIL LOCATIONS ONLY. CONTRACTOR TO PROVIDE SUBSOIL DRAINAGE UNDER KERBS IN ACCORDANCE WITH RYDE COUNCIL STANDARD DRAWINGS SWD.2.
- FLUSHING POINTS THROUGH CENTRE OF ALL PLANTING AREAS TO BE PROVIDED IN ACCORDANCE WITH SWD.2.

NOTE: -

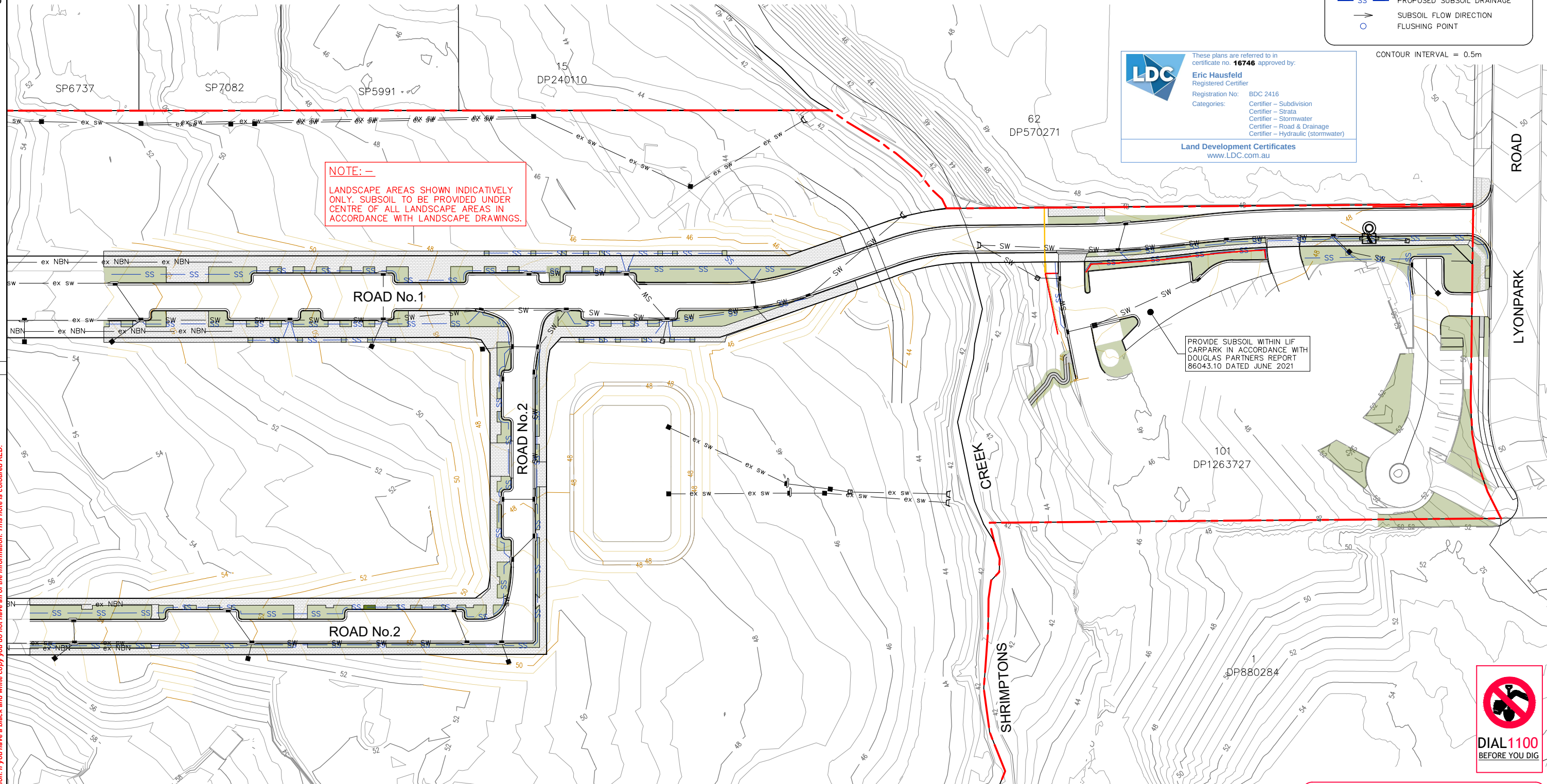
LANDSCAPE AREAS SHOWN INDICATIVELY ONLY. SUBSOIL TO BE PROVIDED UNDER CENTRE OF ALL LANDSCAPE AREAS IN ACCORDANCE WITH LANDSCAPE DRAWINGS.

LDC These plans are referred to in certificate no. **16746** approved by:
Eric Hausfeld
Registered Certifier
Registration No: BDC 2416
Categories: Certifier - Subdivision
Certifier - Strata
Certifier - Stormwater
Certifier - Road & Drainage
Certifier - Hydraulic (stormwater)
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CONTOUR INTERVAL = 0.5m

LEGEND

- SITE BOUNDARY
- PROPOSED LOT BOUNDARY
- EXISTING LOT BOUNDARY
- MAJOR CONTOURS
- MINOR CONTOURS
- PROPOSED KERB
- EXISTING KERB
- PROPOSED STORMWATER
- RETAINING WALL
- PROPOSED STORMWATER
- EXISTING STORMWATER
- PROPOSED SW PIT
- PROPOSED INTEL
- PROPOSED HEADWALL
- PROPOSED SUBSOIL DRAINAGE
- SUBSOIL FLOW DIRECTION
- FLUSHING POINT

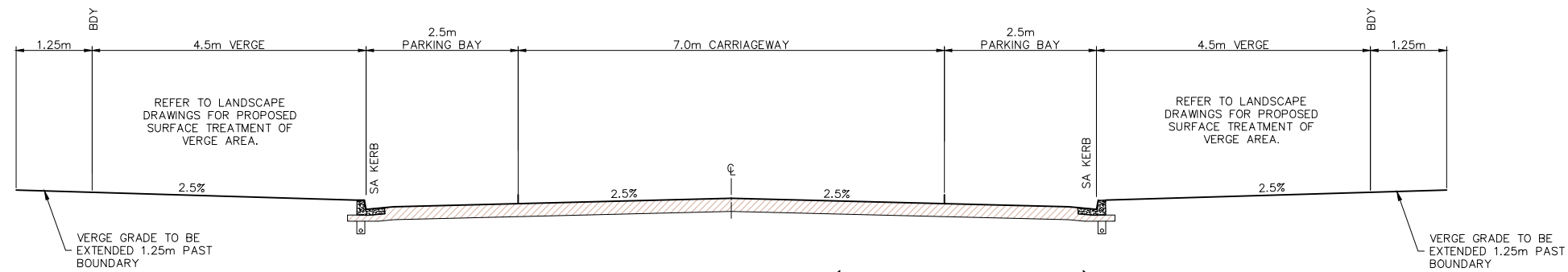


SUBSOIL DRAINAGE PLAN
SCALE 1:500



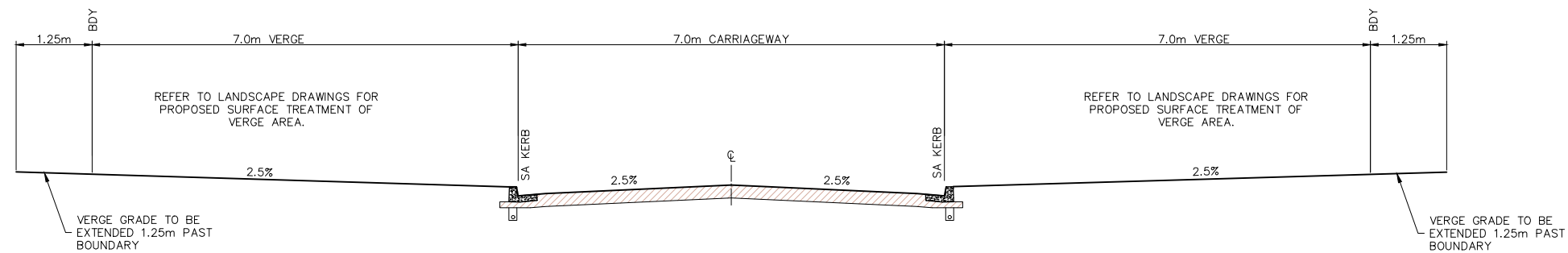
CONSTRUCTION ISSUE

REV.	DATE	AMENDMENT	DESIGN	DRAWN	CHECKED	APPROVED	SCALES	CLIENT	PROPERTY DESCRIPTION	PROJECT
1	21.01.22	ISSUED FOR CONSTRUCTION	B.M.	J.J.	B.M.	B.M.	A1 1:500 A3 1:1000	Central Coast 5 Pioneer Avenue, P.O. Box 3717, Tuggerah N.S.W. 2259 Phone: (02) 4305 4300 Fax: (02) 4305 4399 email: coast@adwjohnson.com.au www.adwjohnson.com.au ABN 62 129 445 398	LOT 100 D.P.1262209 & LOT 1 D.P.859537 EPPING ROAD & LYONPARK ROAD, MACQUARIE PARK SSDA 8903	PROPOSED SUBDIVISION
DESIGN FILE S:\300001\DESIGN\12D\STAGE 2 CC\DESIGN FILE.project			ALL DIMENSIONS ARE IN METRES. DO NOT SCALE			ADW Johnson		ADW Johnson	DATUM GDA94 M.G.A. ZONE 56 A.H.D.	PLAN TITLE SUBSOIL DRAINAGE PLAN
Plotted By: Ben Myles Plot Date: 21/01/22 2:28:20PM Cad File: S:\300001\DRAWINGS\ENGINEERING\CIVIL\STAGE 2 CC ENG\300001(2)-ENG-181.DWG						FRASERS PROPERTY		PROJECT No. 300001(2) - DISCIPLINE ENG - NUMBER 181 - REV. 1		



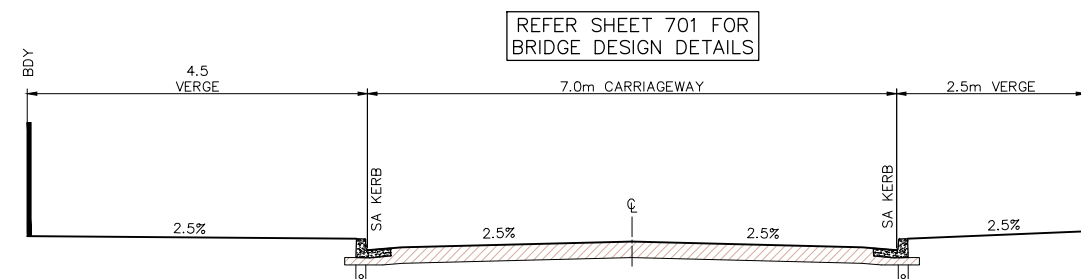
TYPICAL ROAD SECTION – ROAD No.1 (WITH PARKING BAYS)

SCALE 1 : 50



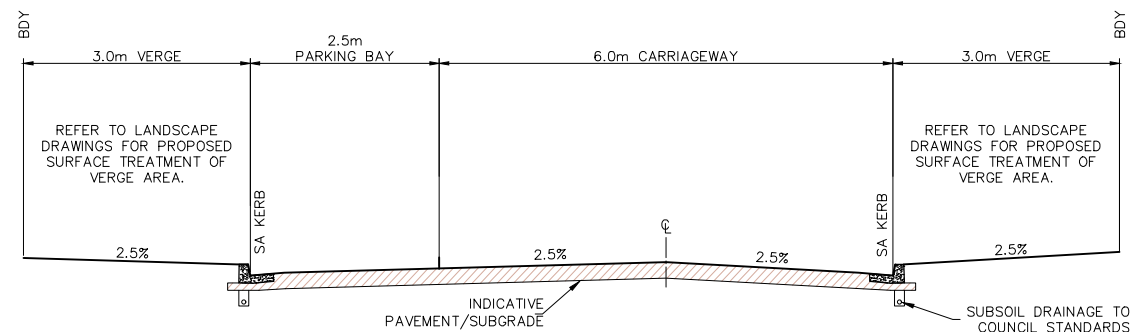
TYPICAL ROAD SECTION – ROAD No.1 (WITHOUT PARKING BAYS)

SCALE 1 : 50



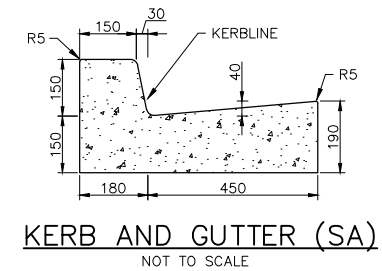
TYPICAL ROAD SECTION – ROAD No.1 (BRIDGE)

SCALE 1 : 50



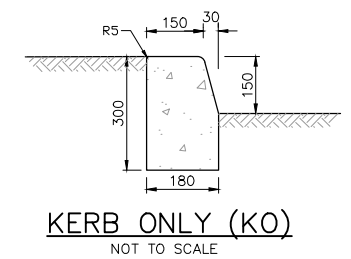
TYPICAL ROAD SECTION – ROAD No.2 (WITH PARKING BAYS)

SCALE 1 : 50



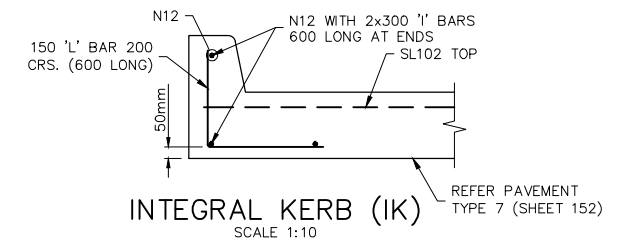
KERB AND GUTTER (SA)

NOT TO SCALE



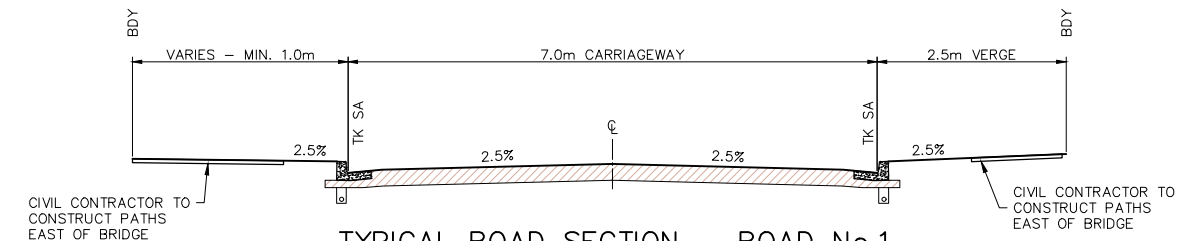
KERB ONLY (KO)

NOT TO SCALE



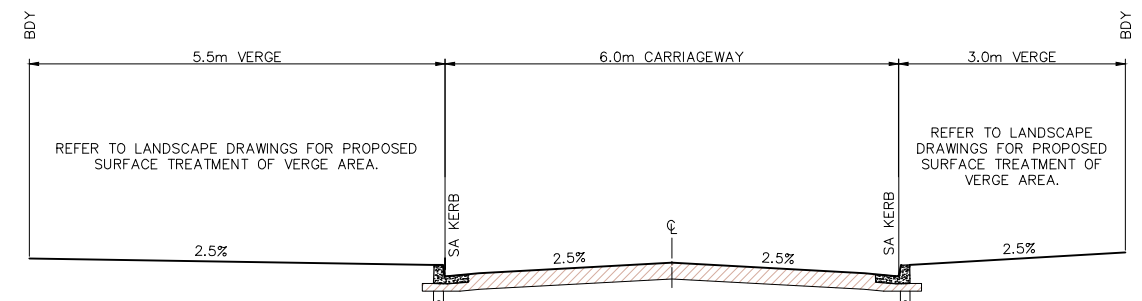
INTEGRAL KERB (IK)

SCALE 1:10



TYPICAL ROAD SECTION – ROAD No.1 (BRIDGE TO LYON PARK ROAD)

SCALE 1 : 50



TYPICAL ROAD SECTION – ROAD No.2 (WITHOUT PARKING BAYS)

SCALE 1 : 50

LDC These plans are referred to in certificate no. **16746** approved by:

Eric Hausfeld
Registered Certifier

Registration No: BDC 2416

Categories: Certifier – Subdivision
Certifier – Strata
Certifier – Stormwater
Certifier – Road & Drainage
Certifier – Hydraulic (stormwater)

Land Development Certificates
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DIAL 1100
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CONSTRUCTION ISSUE

REV.	DATE	AMENDMENT	DESIGN	DRAWN	CHECKED	APPROVED	SCALES
1	21.01.22	ISSUED FOR CONSTRUCTION	B.M.	J.J.	B.M.	B.M.	A1 1:50 A3 1:100

adw Johnson

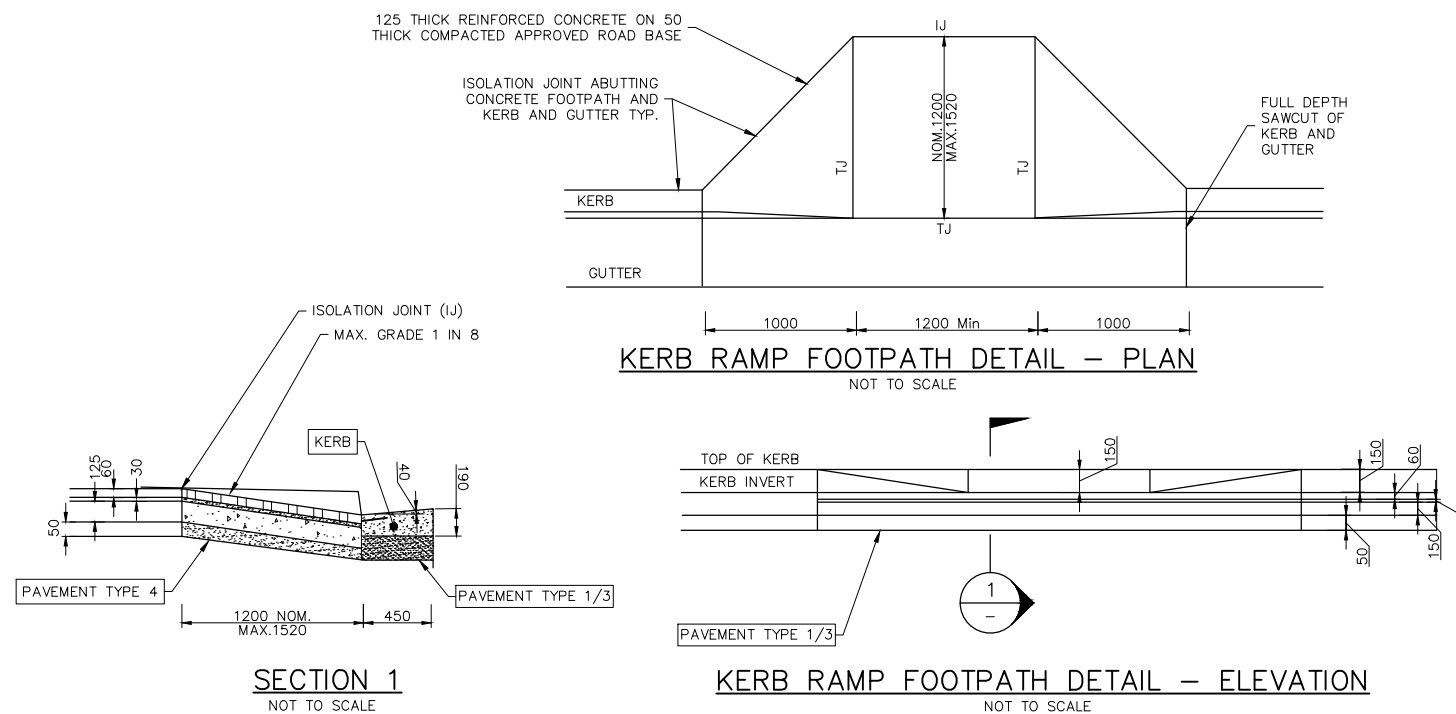
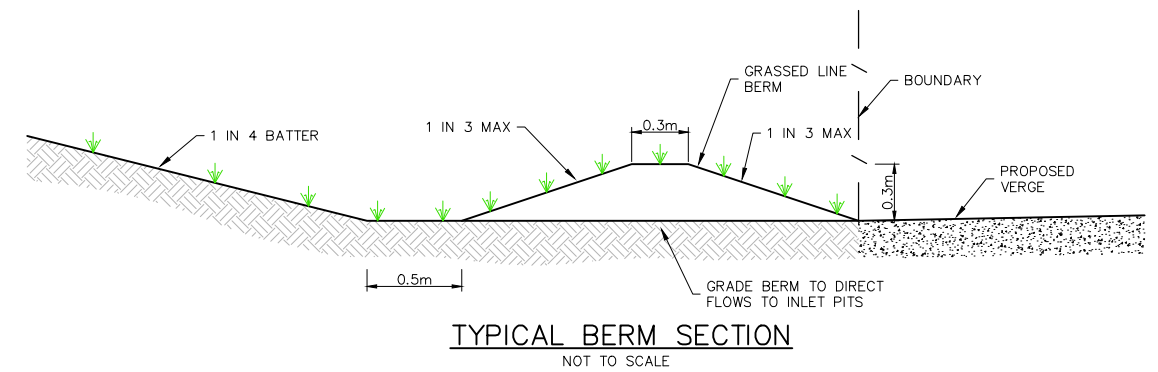
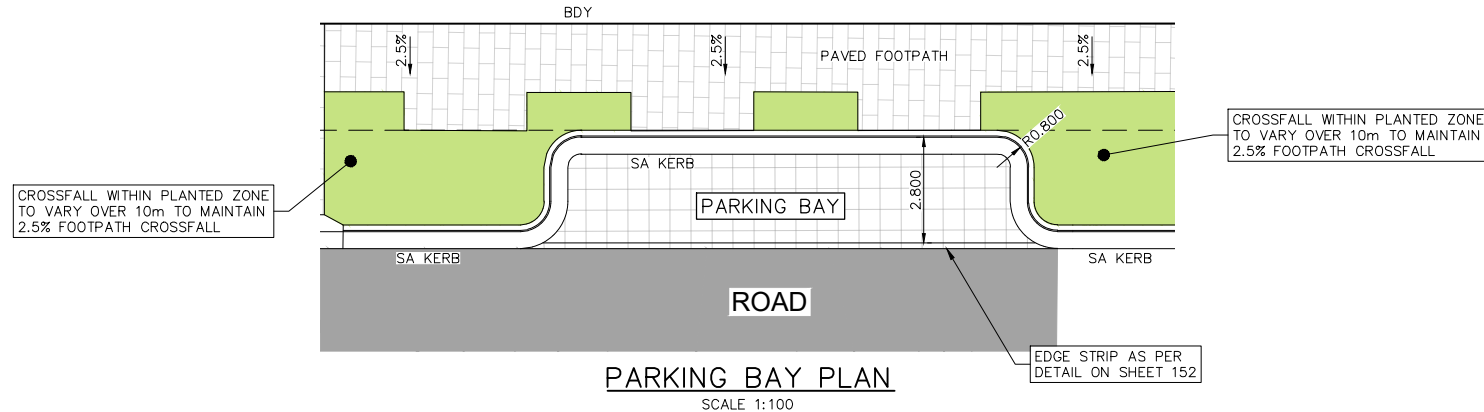
Central Coast
5 Pioneer Avenue,
P.O. Box 3717,
Tuggerah N.S.W. 2259
Phone: (02) 4305 4300
Fax: (02) 4305 4399
email: coast@adwjohnson.com.au
www.adwjohnson.com.au
ABN 62 129 445 398

FRASERS PROPERTY

PROPERTY DESCRIPTION

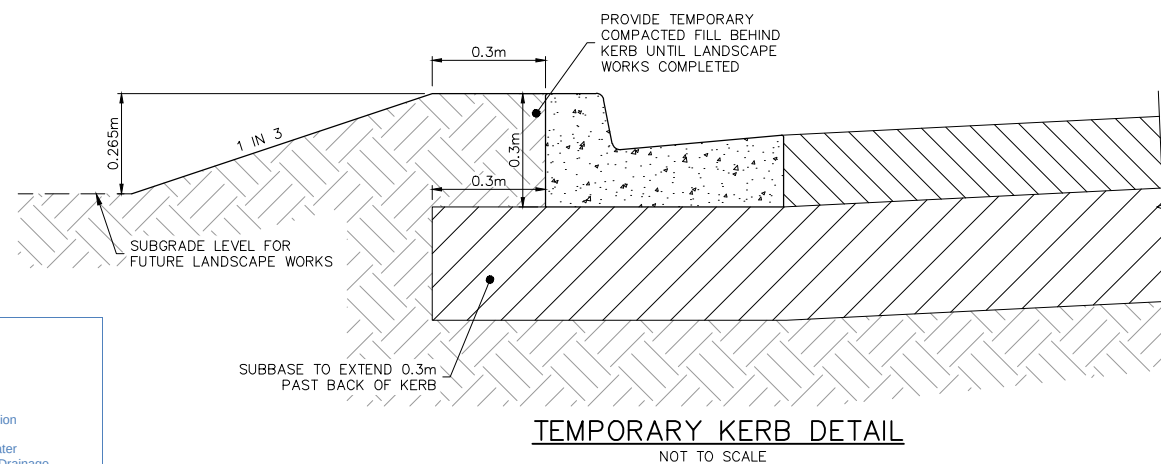
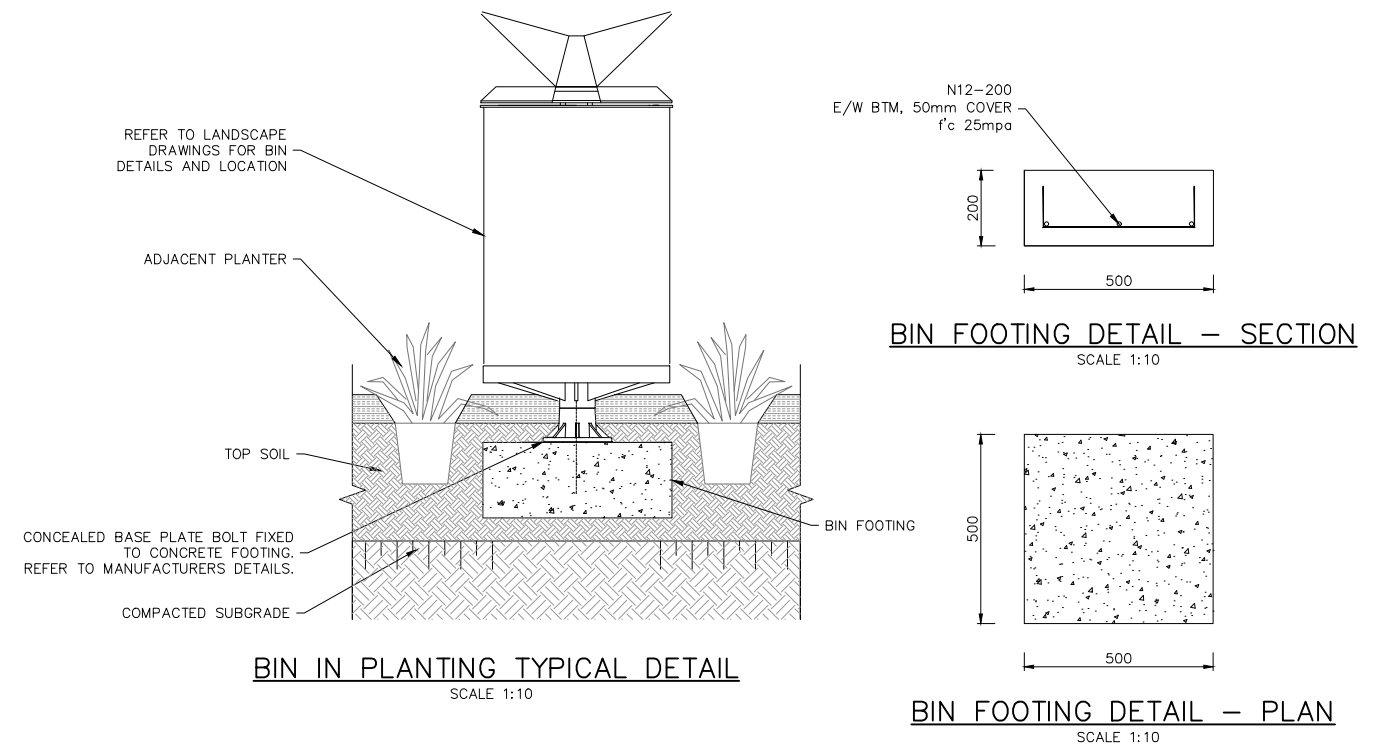
LOT 100 D.P.1262209 & LOT 1 D.P.859537
EPPING ROAD & LYONPARK ROAD,
MACQUARIE PARK
SSDA 8903

PROJECT			
PROPOSED SUBDIVISION			
PLAN TITLE			
TYPICAL ROAD PROFILES, KERB DETAILS & ROAD SETOUT TABLES			
SURVEYED	DATUM	PROJECT No.	DISCIPLINE
ADW Johnson	GDA94 M.G.A. ZONE 56 A.H.D.	300001(2) -	ENG
		NUMBER	REV.
		201	1



SECTION 1
NOT TO SCALE

NOTE:
PRAM RAMPS TO CIV 2.1.2 EXCEPT WHERE MODIFIED BY LANDSCAPE DRAWINGS.



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Eric Hausfeld
Registered Certifier
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Categories: Certifier - Subdivision
Certifier - Strata
Certifier - Stormwater
Certifier - Road & Drainage
Certifier - Hydraulic (stormwater)

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REV.	DATE	AMENDMENT	DESIGN	DRAWN	CHECKED	APPROVED	SCALES
1	21.01.22	ISSUED FOR CONSTRUCTION	B.M.	J.J.	B.M.	B.M.	A1 1:10 A3 1:20

DESIGN FILE S:\300001\DESIGN\12D\STAGE 2 CC\DESIGN FILE.project
Plotted By: Ben Myles Plot Date: 21/01/22 2:28:26PM Cad File: S:\300001\DRAWINGS\ENGINEERING\CIVIL\STAGE 2 CC ENG\300001(2)-ENG-202.DWG

Central Coast
5 Pioneer Avenue,
P.O. Box 3717,
Tuggerah N.S.W. 2259
Phone: (02) 4305 4300
Fax: (02) 4305 4399
email: coast@adwjohnson.com.au
www.adwjohnson.com.au
ABN 62 129 445 398

FRASERS PROPERTY

PROPERTY DESCRIPTION
LOT 100 D.P.1262209 & LOT 1 D.P.859537
EPPING ROAD & LYONPARK ROAD,
MACQUARIE PARK
SSDA 8903

SURVEYED
ADW Johnson

DATUM
GDA94 M.G.A. ZONE 56 A.H.D.

PROJECT
PROPOSED SUBDIVISION

PLAN TITLE
KERB RAMP, TEMPORARY BERM & BIN FOOTING DETAILS

PROJECT No.
300001(2) -

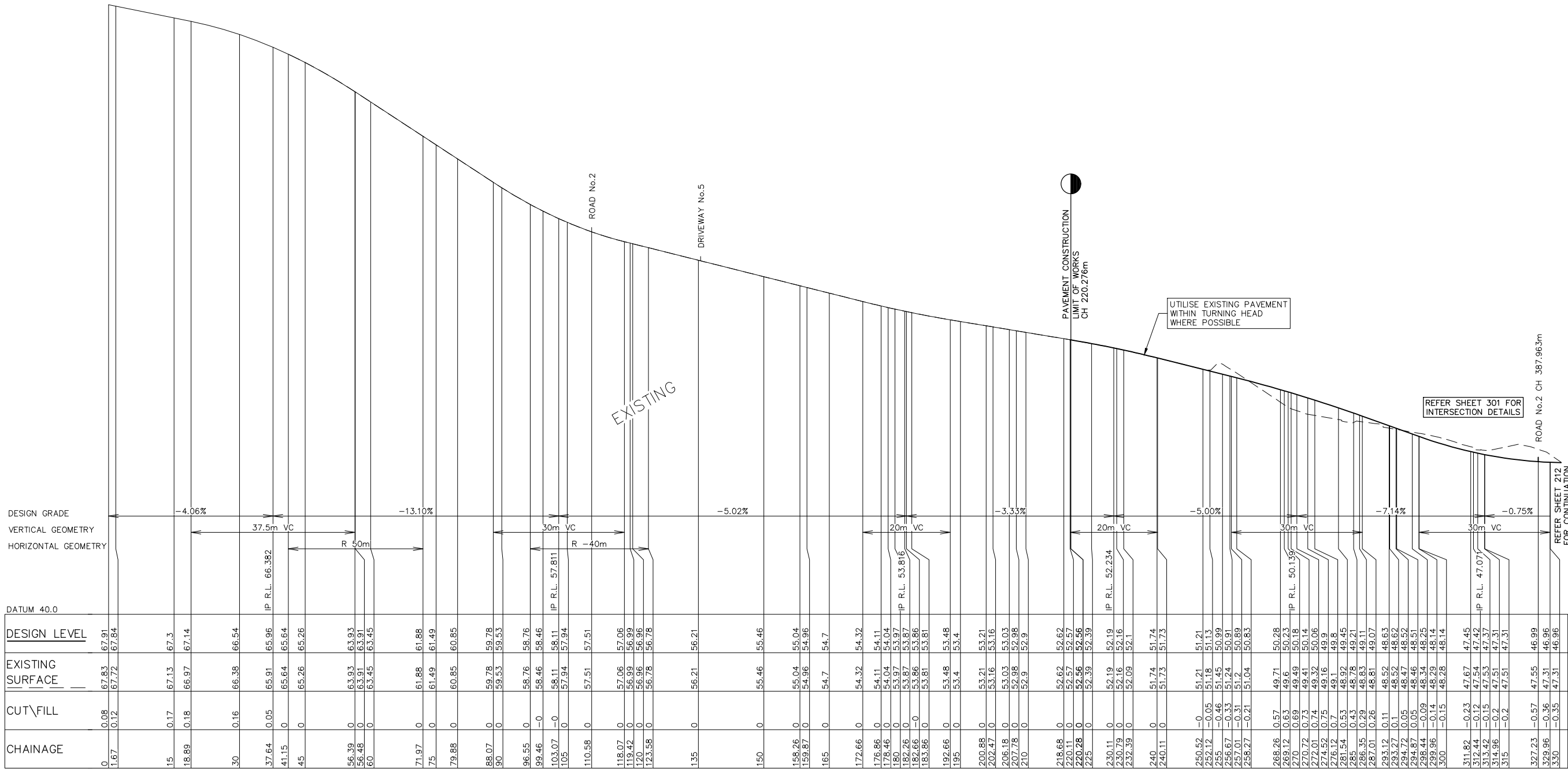
DISCIPLINE
ENG

NUMBER
202

REV.
1



CONSTRUCTION ISSUE



LONGITUDINAL SECTION ROAD No.1

HORIZONTAL SCALE 1:500
VERTICAL SCALE 1:100



These plans are referred to in certificate no. **16746** approved by:

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Registered Certifier

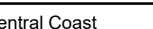
Registration No: BDC 2416

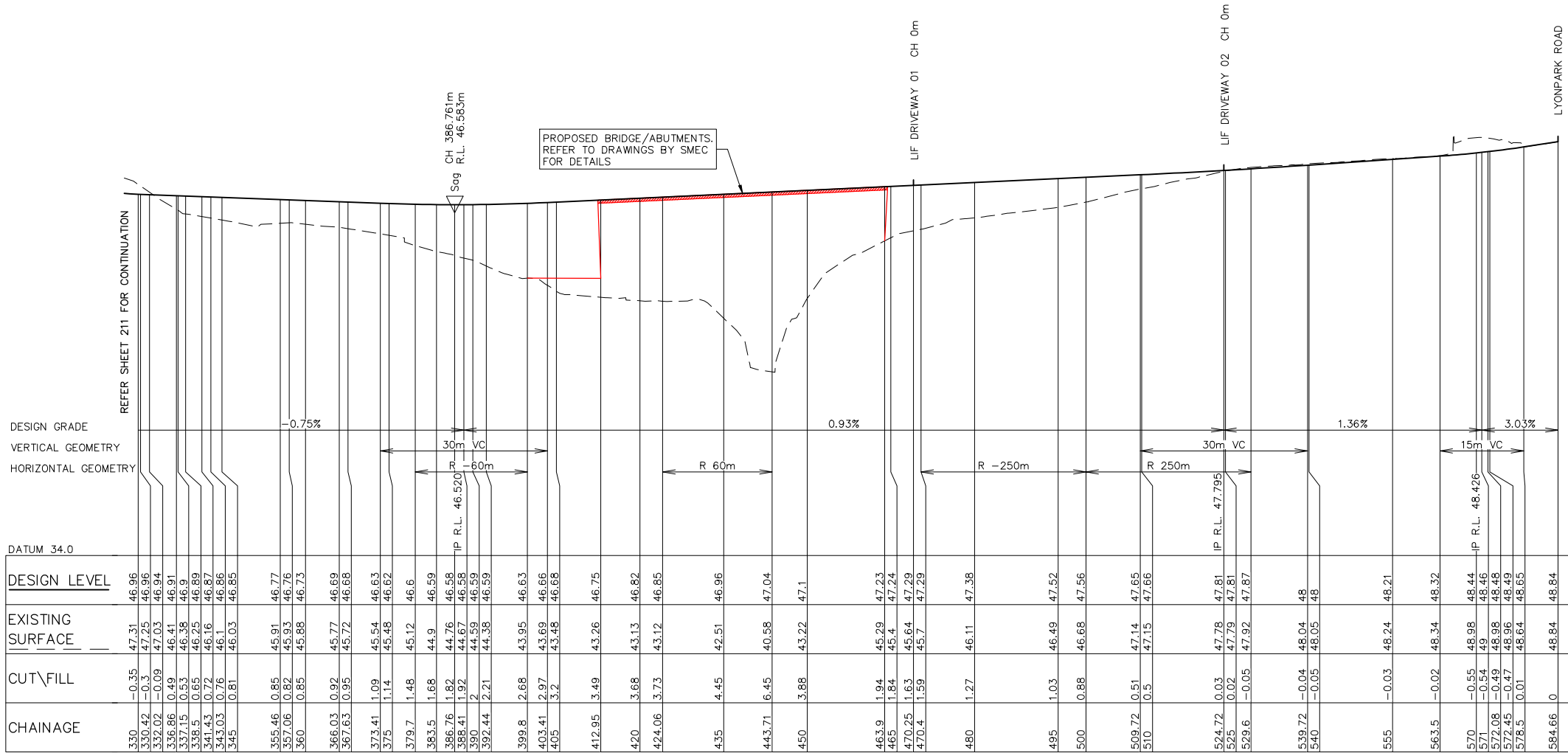
Categories:
Certifier – Subdivision
Certifier – Strata
Certifier – Stormwater
Certifier – Road & Drainage
Certifier – Hydraulic (stormwater)

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CONSTRUCTION ISSUE

REV.	DATE	AMENDMENT	DESIGN	DRAWN	CHECKED	APPROVED	SCALES	 Central Coast 5 Pioneer Avenue, P.O. Box 3717, Tuggerah N.S.W. 2259 Phone: (02) 4305 4300 Fax: (02) 4305 4399 email: coast@adwjohnson.com.au www.adwjohnson.com.au ABN 62 129 445 398	 FRASERS PROPERTY	CLIENT	PROPERTY DESCRIPTION		PROJECT	
1		21.01.22		ISSUED FOR CONSTRUCTION		B.M.	J.J.				B.M.	B.M.	PROPOSED SUBDIVISION	
													PLAN TITLE	
												ROAD LONGITUDINAL SECTIONS		
												ROAD No.01		
												SHEET 1		
												PROJECT No.		
												DISCIPLINE		
												NUMBER		
												REV.		
												300001(2) -		
												ENG -		
												211		
												1		



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Eric Hausfeld
Registered Certifier

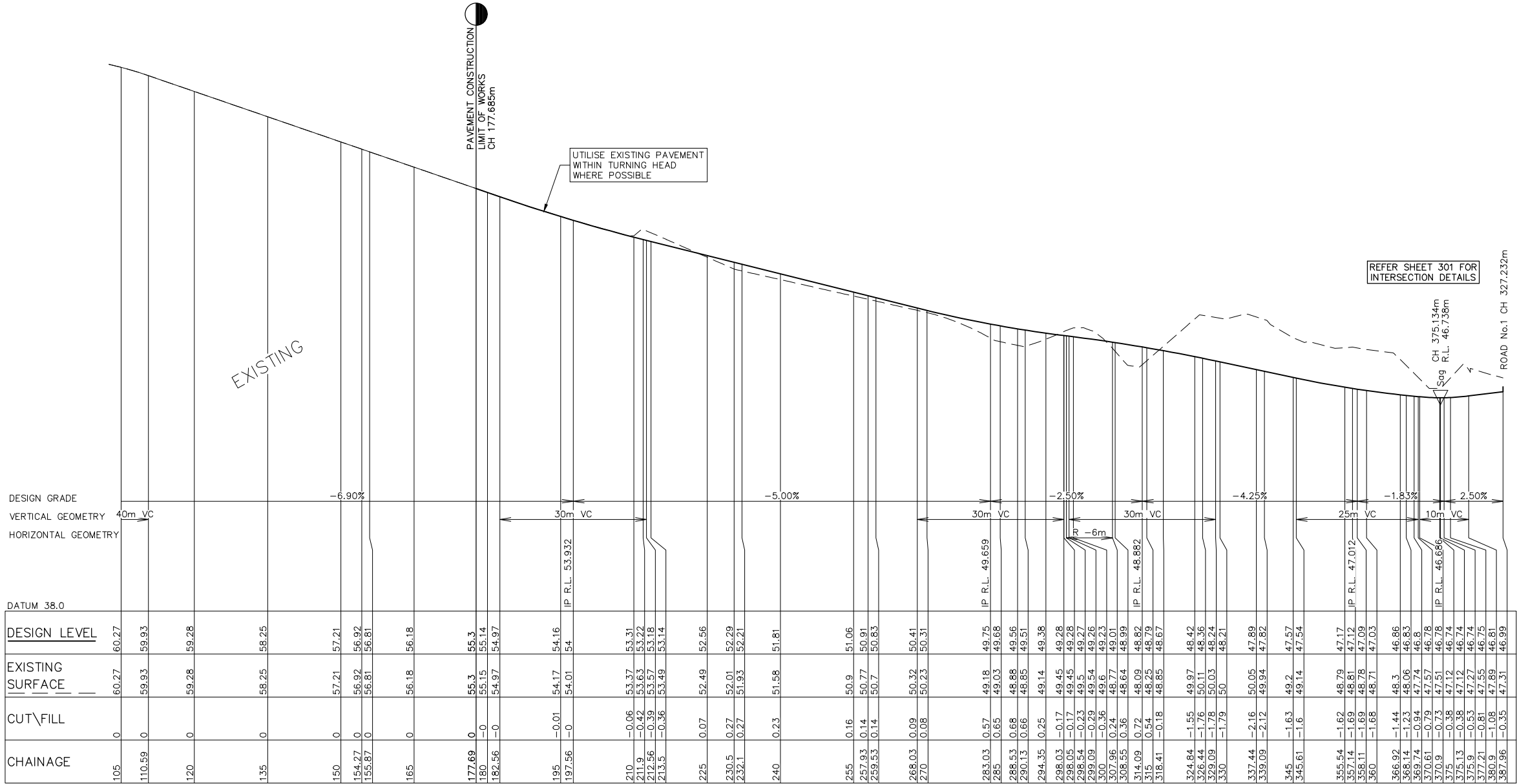
Registration No: BDC 2416
Categories: Certifier - Subdivision
Certifier - Strata
Certifier - Stormwater
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CONSTRUCTION ISSUE

REV.	DATE	AMENDMENT	DESIGN	DRAWN	CHECKED	APPROVED	SCALES	CLIENT	PROPERTY DESCRIPTION	PROJECT
1	21.01.22	ISSUED FOR CONSTRUCTION	B.M.	J.J.	B.M.	B.M.	A1 1:500 0 12.5 25.0m A3 1:1000 A1 1:100 0 2.5 5.0m A3 1:200	Central Coast 5 Pioneer Avenue, P.O. Box 3717, Tuggerah N.S.W. 2259 Phone: (02) 4305 4300 Fax: (02) 4305 4399 email: coast@adwjohnson.com.au www.adwjohnson.com.au ABN 62 129 445 398 FRASERS PROPERTY	LOT 100 D.P.1262209 & LOT 1 D.P.859537 EPPING ROAD & LYONPARK ROAD, MACQUARIE PARK SSDA 8903	PROPOSED SUBDIVISION
DESIGN FILE S:\300001\DESIGN\12D\STAGE 2 CC\DESIGN FILE.project			ALL DIMENSIONS ARE IN METRES. DO NOT SCALE			PLAN TITLE ROAD LONGITUDINAL SECTIONS ROAD No.01 SHEET 2				
Plotted By: Ben Myles Plot Date: 21/01/22 2:28:34PM Cad File: S:\300001\DRAWINGS\ENGINEERING\CIVIL\STAGE 2 CC ENG\300001(2)-ENG-212.DWG		SURVEYED ADW Johnson		DATUM GDA94 M.G.A. ZONE 56 A.H.D.		PROJECT No. 300001(2) -		DISCIPLINE ENG		NUMBER 212
										REV. 1



REV.	DATE	AMENDMENT	DESIGN	DRAWN	CHECKED	APPROVED	SCALES
1	21.01.22	ISSUED FOR CONSTRUCTION	B.M.	J.J.	B.M.	B.M.	A1 1:500 0 12.5 25.0m A3 1:1000 A1 1:100 0 2.5 5.0m A3 1:200

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Plotted By: Ben Myles Plot Date: 21/01/22 2:28:38PM Cad File: S:\300001\DRAWINGS\ENGINEERING\CIVIL\STAGE 2 CC ENG\300001(2)-ENG-213.DWG



Central Coast
5 Pioneer Avenue,
P.O. Box 3717,
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email: coast@adwjohnson.com.au
www.adwjohnson.com.au
ABN 62 129 445 398



FRASERS
PROPERTY



These plans are referred to in
certificate no. **16746** approved by:
Eric Hausfeld
Registered Certifier
Registration No: BDC 2416
Categories: Certifier – Subdivision
Certifier – Strata
Certifier – Stormwater
Certifier – Road & Drainage
Certifier – Hydraulic (stormwater)

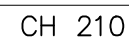
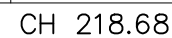
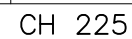
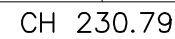
Land Development Certificates
www.LDC.com.au

PROPERTY DESCRIPTION		
LOT 100 D.P.1262209 & LOT 1 D.P.859537 EPPING ROAD & LYONPARK ROAD, MACQUARIE PARK SSDA 8903		
SURVEYED ADW Johnson	DATUM GDA94 M.G.A. ZONE 56	A.H.D.

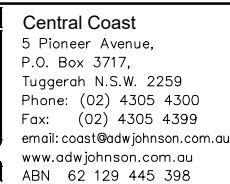
PROJECT			
PROPOSED SUBDIVISION			
PLAN TITLE			
ROAD LONGITUDINAL SECTIONS ROAD No.02			
PROJECT No.	DISCIPLINE	NUMBER	REV.
300001(2) -	ENG	213	1



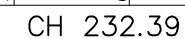
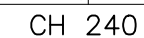
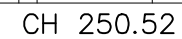
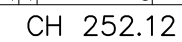
CONSTRUCTION ISSUE



ALL DIMENSIONS ARE IN METRES. DO NOT SCALE



Land Development Certificates



CONSTRUCTION ISSUE

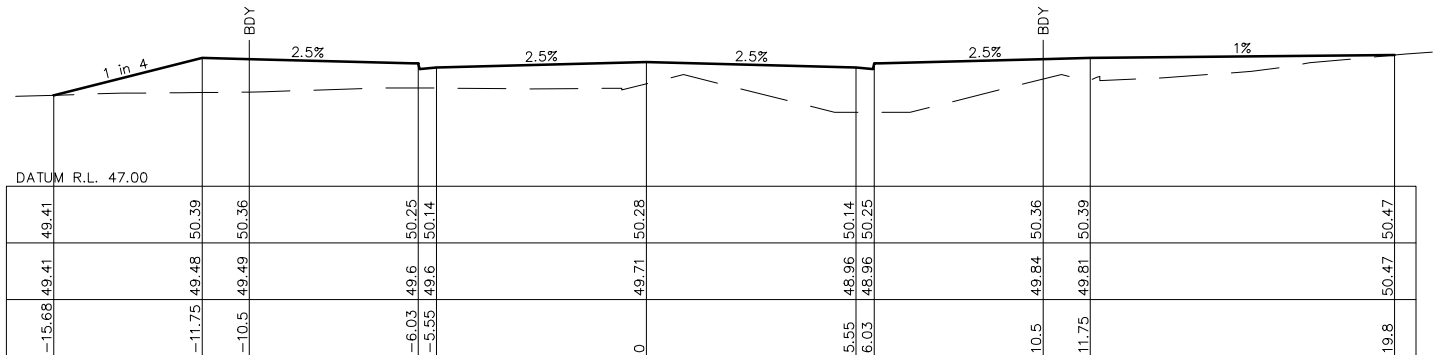
* MODIFY CROSS FALL OF
PLANTED ZONES TO
MAINTAIN 2.5%
FOOTPATH



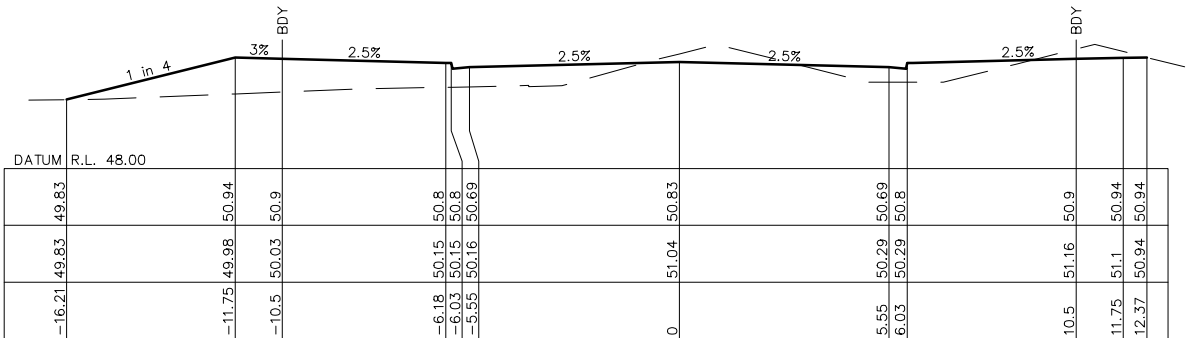
DIAL 1100
BEFORE YOU DIG

CLIENT 	PROPERTY DESCRIPTION LOT 100 D.P.1262209 & LOT 1 D.P.859537 EPPING ROAD & LYONPARK ROAD, MACQUARIE PARK SSDA 8903			PROJECT PROPOSED SUBDIVISION			
				PLAN TITLE ROAD CROSS SECTIONS ROAD No.01 SHEET 1			
	SURVEYED ADW Johnson	DATUM GDA94 M.G.A. ZONE 56	A.H.D.	PROJECT No. 300001(2) -	DISCIPLINE ENG -	NUMBER 231	REV. 1

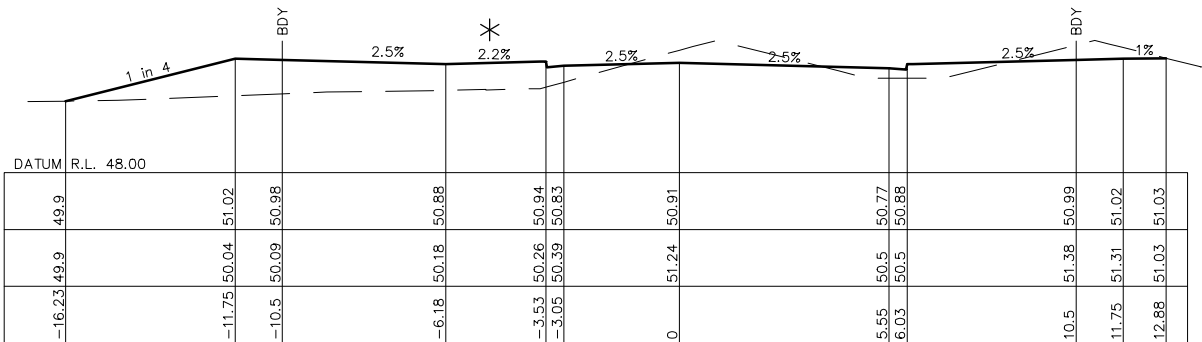
* MODIFY CROSS FALL OF
PLANTED ZONES TO
MAINTAIN 2.5%
FOOTPATH



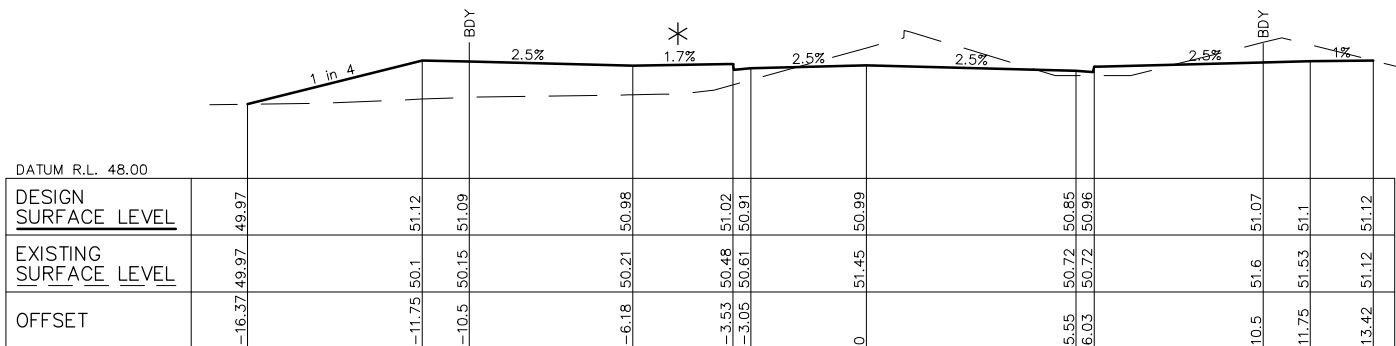
CH 268.26



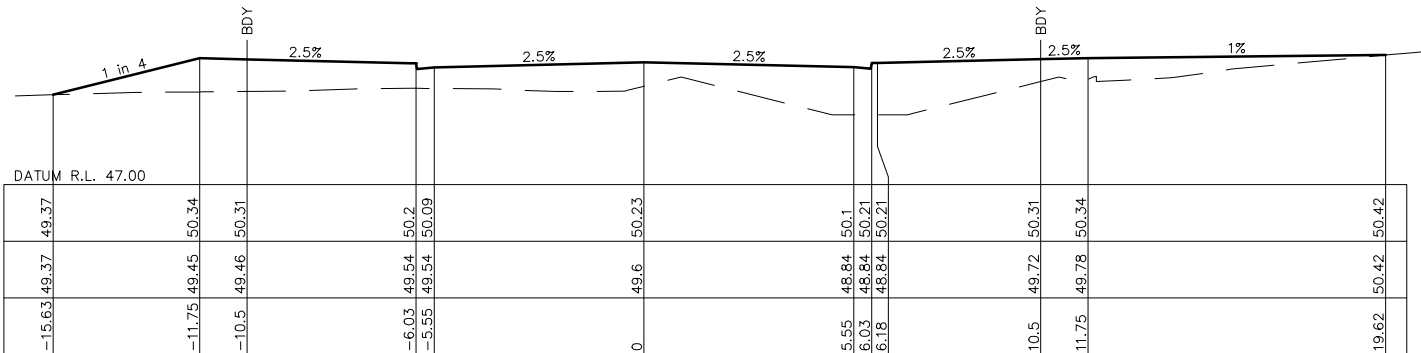
CH 258.27



CH 256.67



CH 255



CH 269.12



These plans are referred to in certificate no. **16746** approved by:
Eric Hausfeld
Registered Certifier
Registration No: BDC 2416
Categories: Certifier – Subdivision
Certifier – Strata
Certifier – Stormwater
Certifier – Road & Drainage
Certifier – Hydraulic (stormwater)

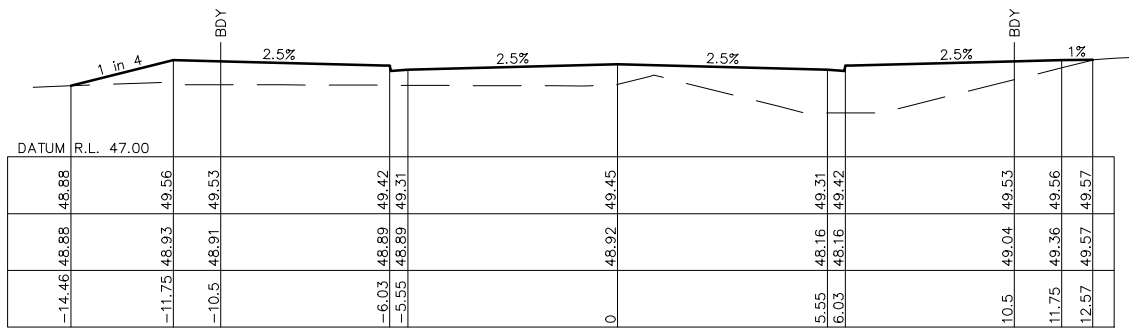
Land Development Certificates
www.LDC.com.au



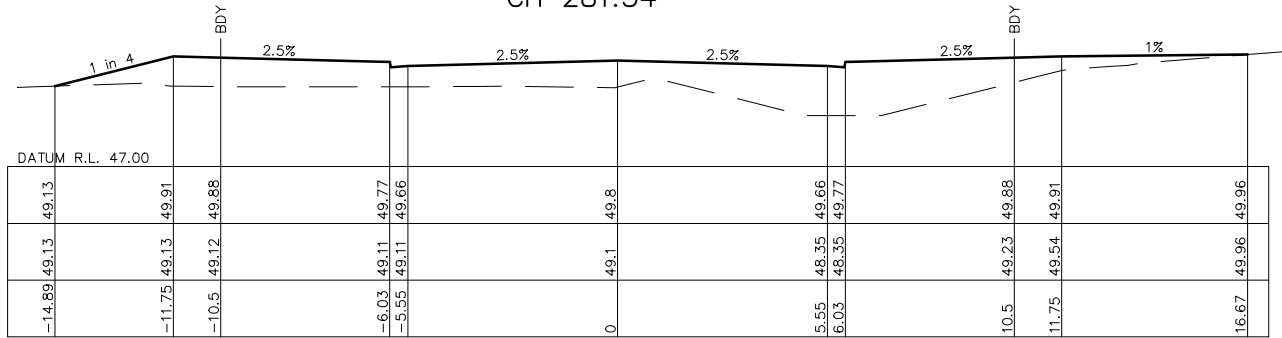
CONSTRUCTION ISSUE

REV.	DATE	AMENDMENT	DESIGN	DRAWN	CHECKED	APPROVED	SCALES	CLIENT	PROPERTY DESCRIPTION	PROJECT	PLAN TITLE	PROJECT No.	DISCIPLINE	NUMBER	REV.
1	21.01.22	ISSUED FOR CONSTRUCTION	B.M.	J.J.	B.M.	B.M.	A1 1:100 0 2.5 5.0m A3 1:200	Central Coast 5 Pioneer Avenue, P.O. Box 3717, Tuggerah N.S.W. 2259 Phone: (02) 4305 4300 Fax: (02) 4305 4399 email: coast@adwjohnson.com.au www.adwjohnson.com.au ABN 62 129 445 398	LOT 100 D.P.1262209 & LOT 1 D.P.859537 EPPING ROAD & LYONPARK ROAD, MACQUARIE PARK SSDA 8903	PROPOSED SUBDIVISION	ROAD CROSS SECTIONS ROAD No.01 SHEET 2	300001(2) -	ENG	232	1
DESIGN FILE S:\300001\DESIGN\12D\STAGE 2 CC\DESIGN FILE.project			ALL DIMENSIONS ARE IN METRES. DO NOT SCALE					ADW Johnson		ADW Johnson		GDA94 M.G.A. ZONE 56 A.H.D.			

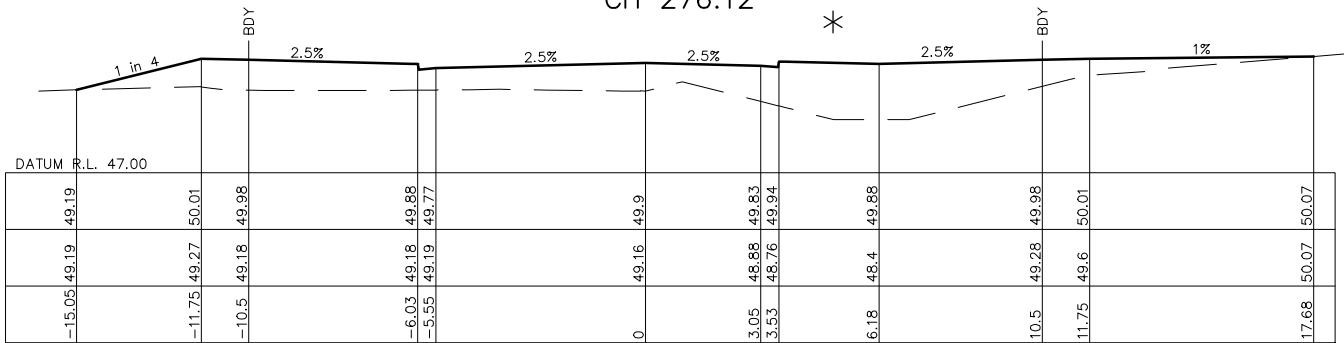
* MODIFY CROSS FALL OF
PLANTED ZONES TO
MAINTAIN 2.5%
FOOTPATH



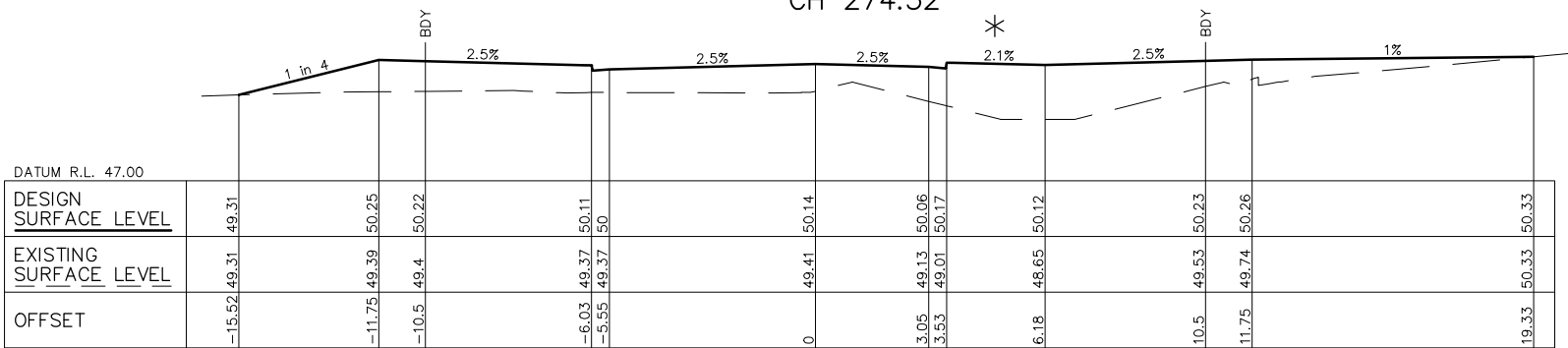
CH 281.54



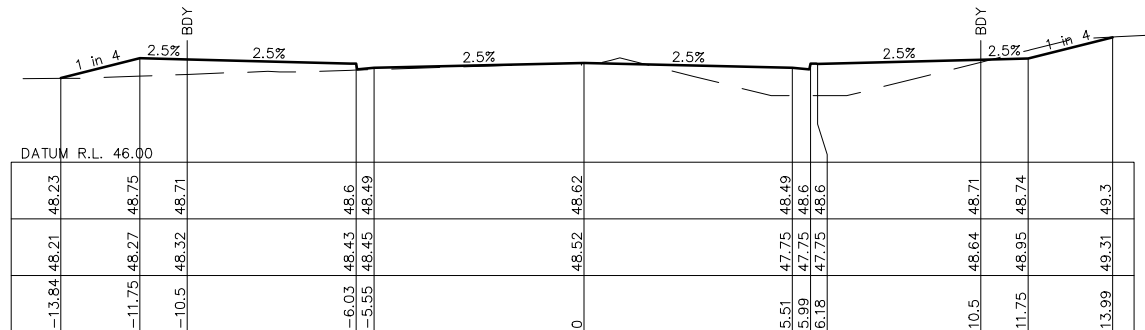
CH 276.12



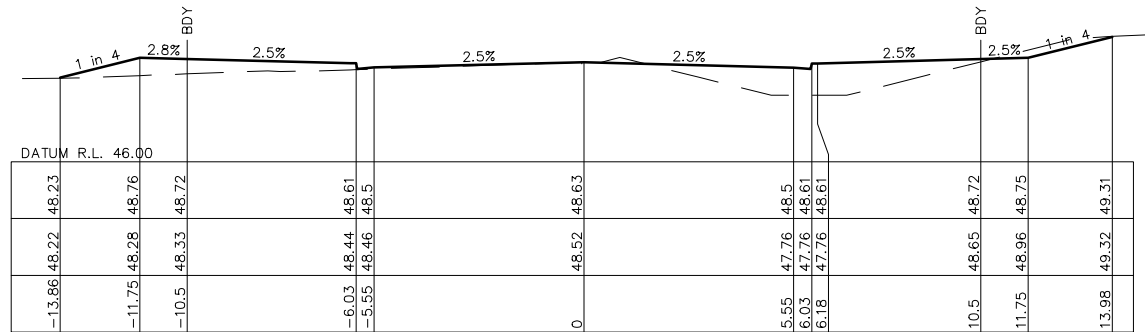
CH 274.52



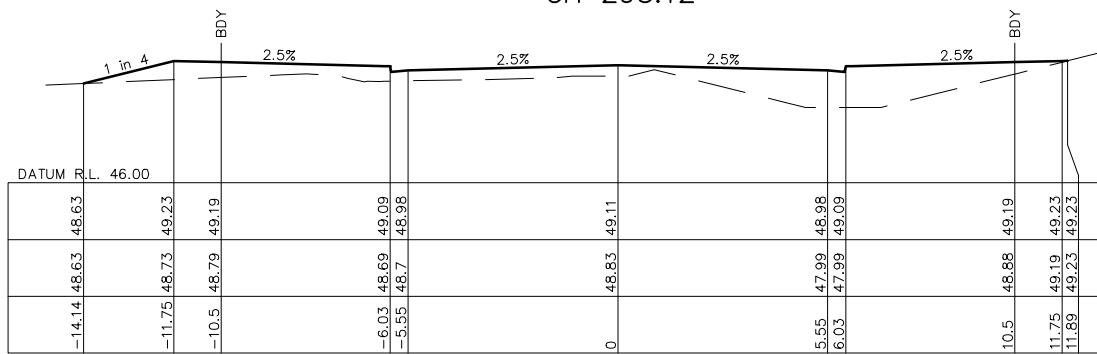
CH 270.72



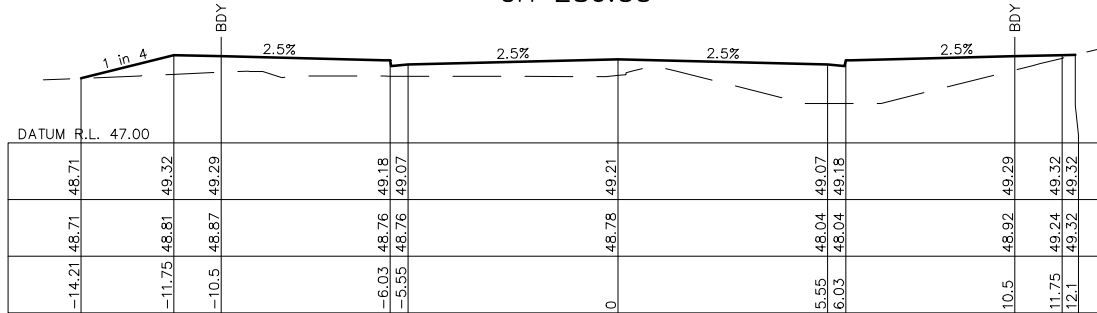
CH 293.27



CH 293.12



CH 286.35



CH 285



These plans are referred to in certificate no **16746** approved by:

Eric Hausfeld
Registered Certifier

Registration No: BDC 2416

Categories: Certifier - Subdivision
Certifier - Strata
Certifier - Stormwater
Certifier - Road & Drainage
Certifier - Hydraulic (stormwater)

Land Development Certificates
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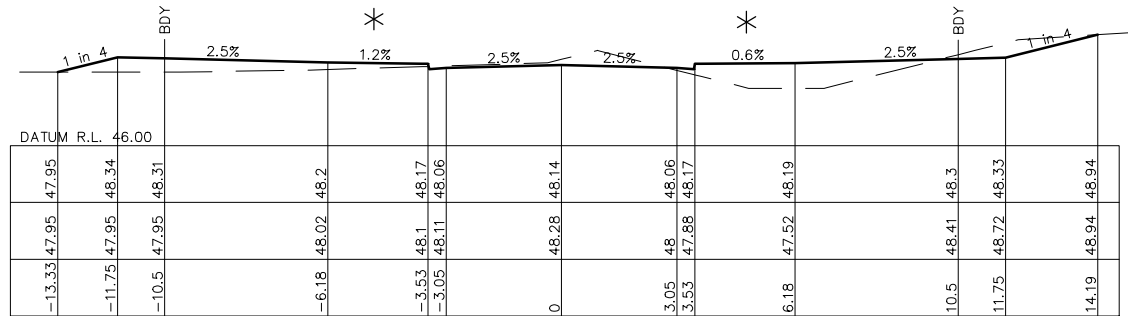


CONSTRUCTION ISSUE

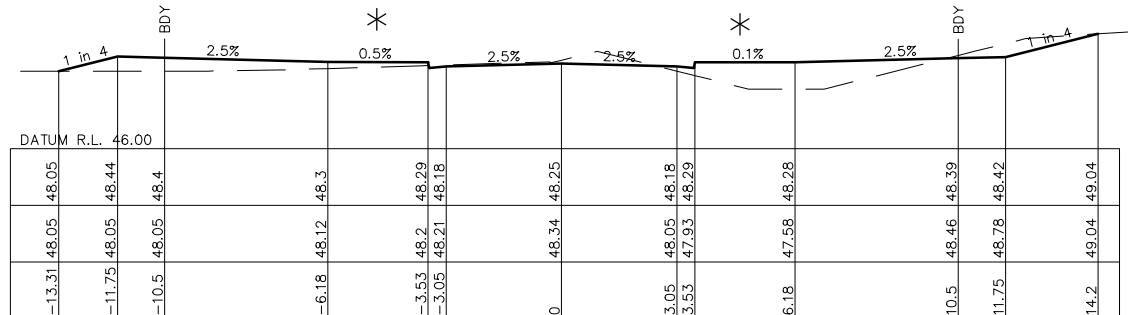
REV.	DATE	AMENDMENT	DESIGN	DRAWN	CHECKED	APPROVED	SCALES		Central Coast 5 Pioneer Avenue, P.O. Box 3717, Tuggerah N.S.W. 2259 Phone: (02) 4305 4300 Fax: (02) 4305 4399 email: coast@adwjohnson.com.au www.adwjohnson.com.au ABN 62 129 445 398	CLIENT 	PROPERTY DESCRIPTION LOT 100 D.P.1262209 & LOT 1 D.P.859537 EPPING ROAD & LYONPARK ROAD, MACQUARIE PARK SSDA 8903	PROJECT PROPOSED SUBDIVISION			
1	21.01.22	ISSUED FOR CONSTRUCTION	B.M.	J.J.	B.M.	B.M.	A1 1:100  A3 1:200					PLAN TITLE ROAD CROSS SECTIONS ROAD No.01 SHEET 3			
DESIGN FILE S:\300001\DESIGN\12D\STAGE 2 CC\DESIGN FILE.project							ALL DIMENSIONS ARE IN METRES. DO NOT SCALE					SURVEYED ADW Johnson		DATUM GDA94 M.G.A. ZONE 56 A.H.D.	PROJECT No. 300001(2) -

● REFER SHEET 501 FOR
SITE REGRADE DETAILS

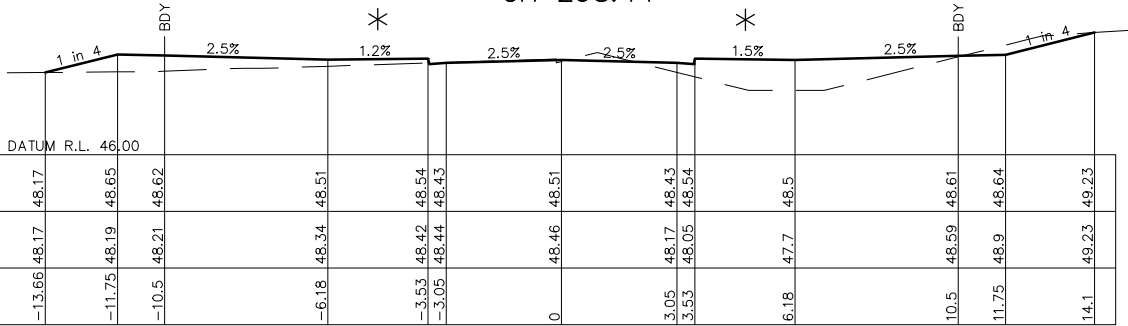
* MODIFY CROSS FALL OF
PLANTED ZONES TO
MAINTAIN 2.5%
FOOTPATH



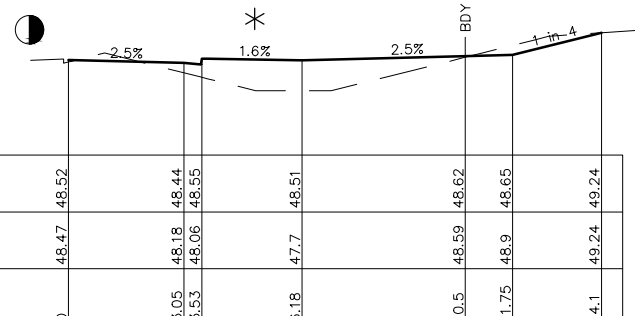
CH 300



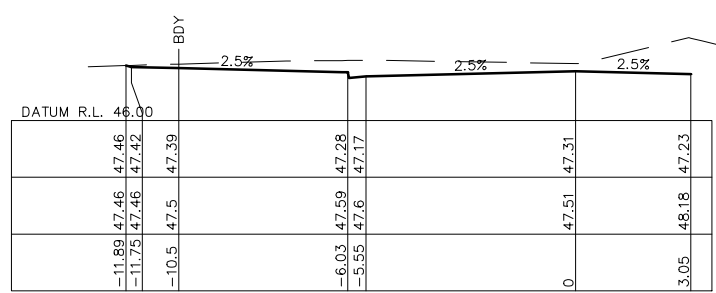
CH 298.44



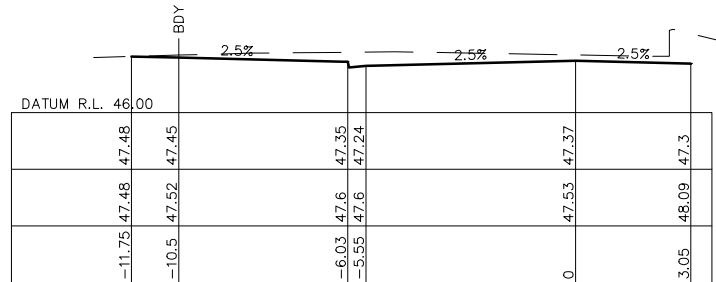
CH 294.87



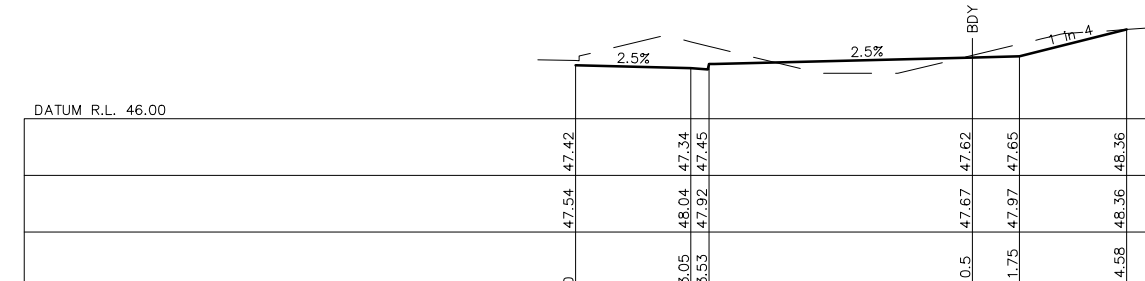
CH 294.72



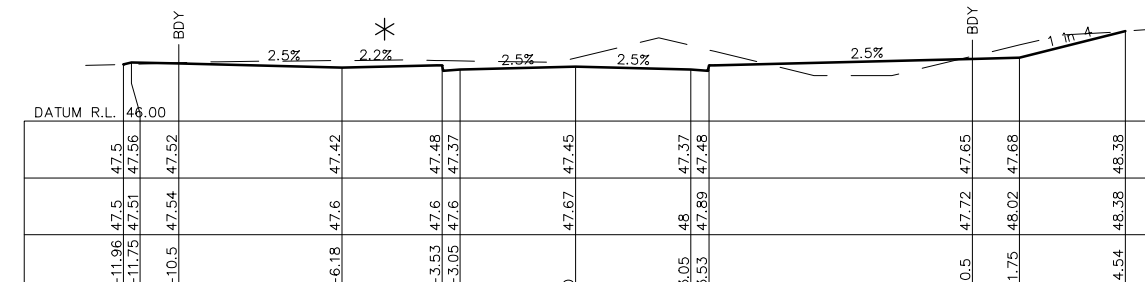
CH 315



CH 313.42



CH 312.44



CH 311.82

LDC

These plans are referred to in certificate no. **16746** approved by:

Eric Hausfeld
Registered Certifier

Registration No: BDC 2416
Categories: Certifier – Subdivision
Certifier – Strata
Certifier – Stormwater
Certifier – Road & Drainage
Certifier – Hydraulic (stormwater)

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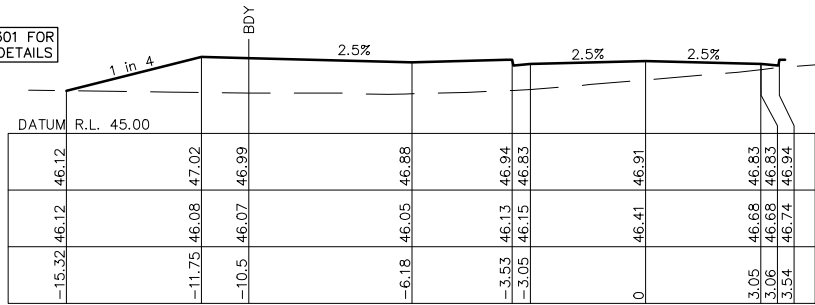
CONSTRUCTION ISSUE

REV.	DATE	AMENDMENT	DESIGN	DRAWN	CHECKED	APPROVED	SCALES	CLIENT	PROPERTY DESCRIPTION	PROJECT
1	21.01.22	ISSUED FOR CONSTRUCTION	B.M.	J.J.	B.M.	B.M.	A1 1:100 0 2.5 5.0m A3 1:200	Central Coast 5 Pioneer Avenue, P.O. Box 3717, Tuggerah N.S.W. 2259 Phone: (02) 4305 4300 Fax: (02) 4305 4399 email: coast@adwjohnson.com.au www.adwjohnson.com.au ABN 62 129 445 398	LOT 100 D.P.1262209 & LOT 1 D.P.859537 EPPING ROAD & LYONPARK ROAD, MACQUARIE PARK SSDA 8903	PROPOSED SUBDIVISION
DESIGN FILE S:\300001\DESIGN\12D\STAGE 2 CC\DESIGN FILE.project								ALL DIMENSIONS ARE IN METRES. DO NOT SCALE		
Plotted By: Ben Myles Plot Date: 21/01/22 2:28:54PM Cad File: S:\300001\DRAWINGS\ENGINEERING\CIVIL\STAGE 2 CC ENG\300001(2)-ENG-234.DWG								ADW Johnson		
								FRASERS PROPERTY		
								PROJECT No. 300001(2) - DISCIPLINE ENG - NUMBER 234 - REV. 1		

● REFER SHEET 501 FOR
SITE REGRADE DETAILS

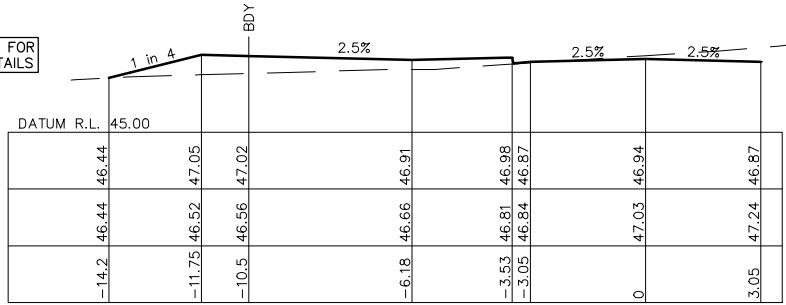
* MODIFY CROSS FALL OF
PLANTED ZONES TO
MAINTAIN 2.5%
FOOTPATH

REFER SHEET 301 FOR
INTERSECTION DETAILS



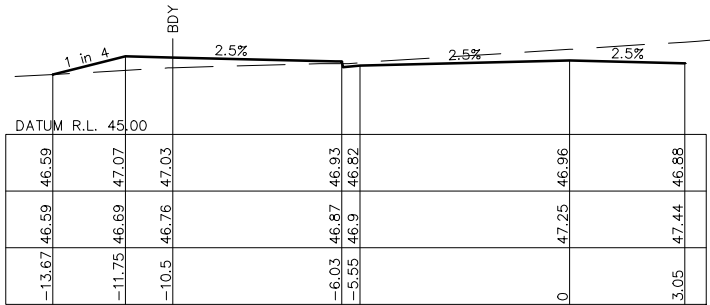
CH 336.86

REFER SHEET 301 FOR
INTERSECTION DETAILS



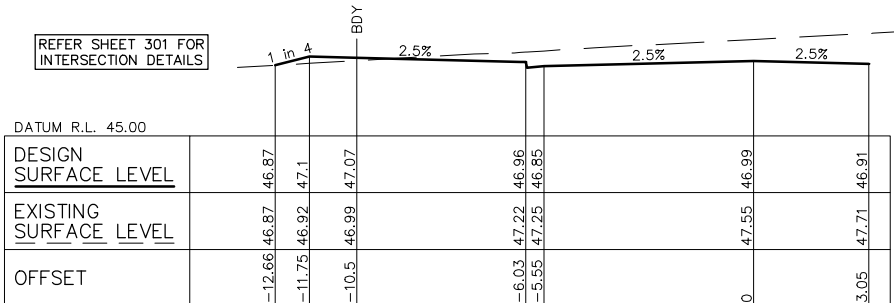
CH 332.02

REFER SHEET 301 FOR
INTERSECTION DETAILS

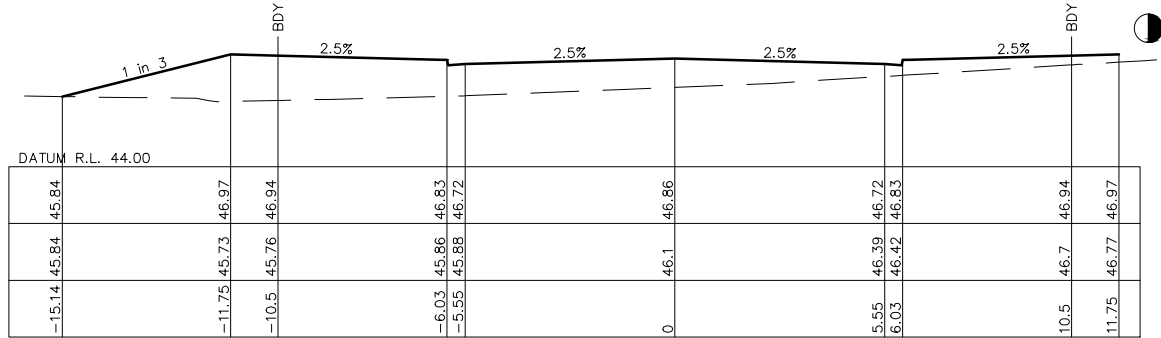


CH 330.42

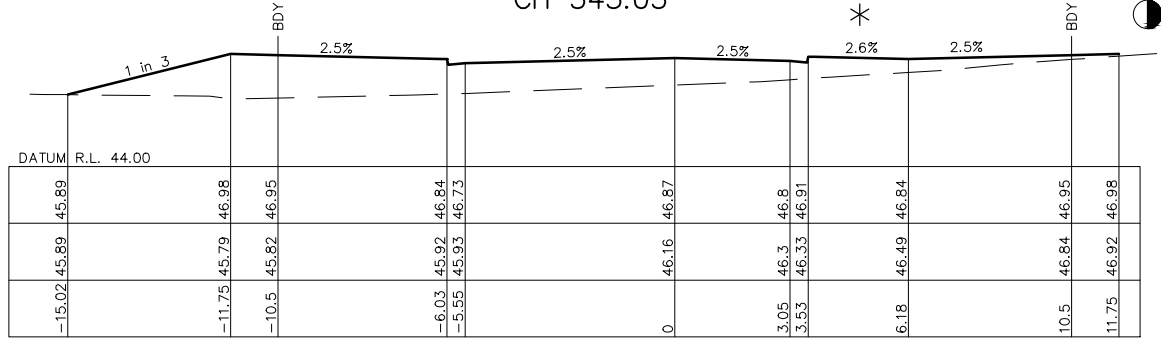
REFER SHEET 301 FOR
INTERSECTION DETAILS



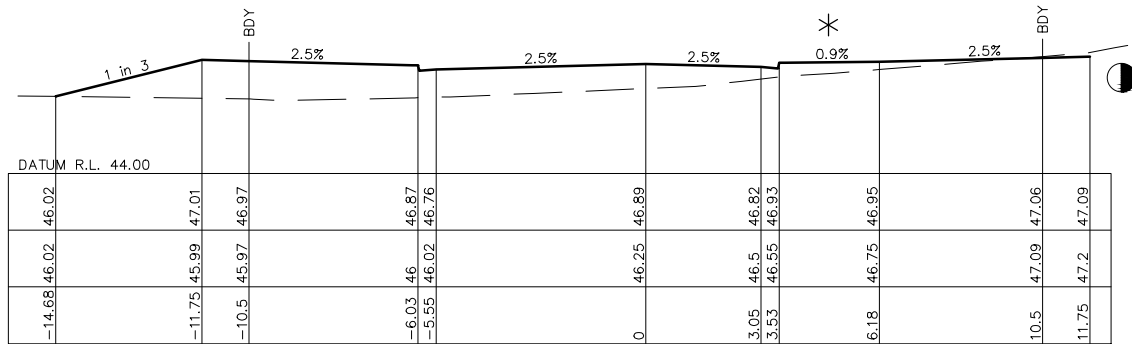
CH 327.23



CH 343.03

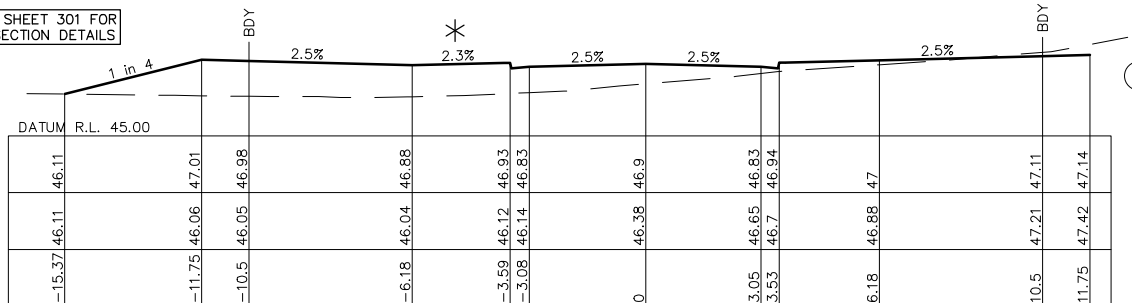


CH 341.43



CH 338.5

REFER SHEET 301 FOR
INTERSECTION DETAILS



CH 337.15

These plans are referred to in certificate no. **16746** approved by:

Eric Hausfeld
Registered Certifier
Registration No: BDC 2416
Categories: Certifier – Subdivision
Certifier – Strata
Certifier – Stormwater
Certifier – Road & Drainage
Certifier – Hydraulic (stormwater)

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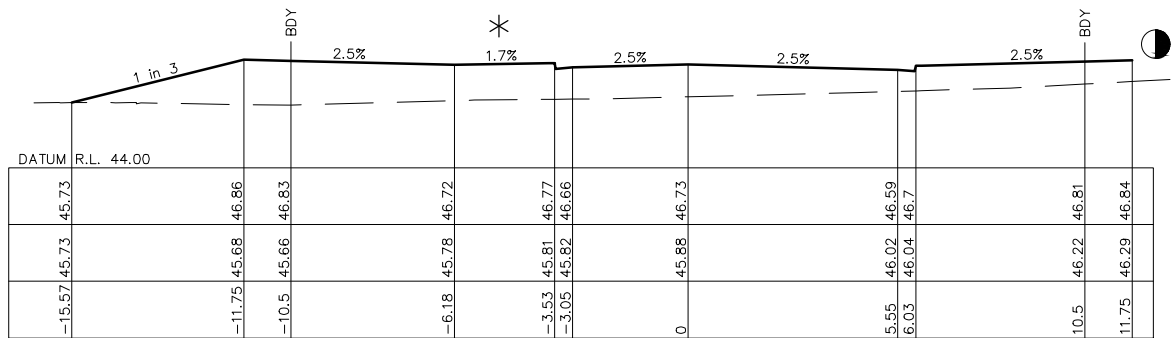


CONSTRUCTION ISSUE

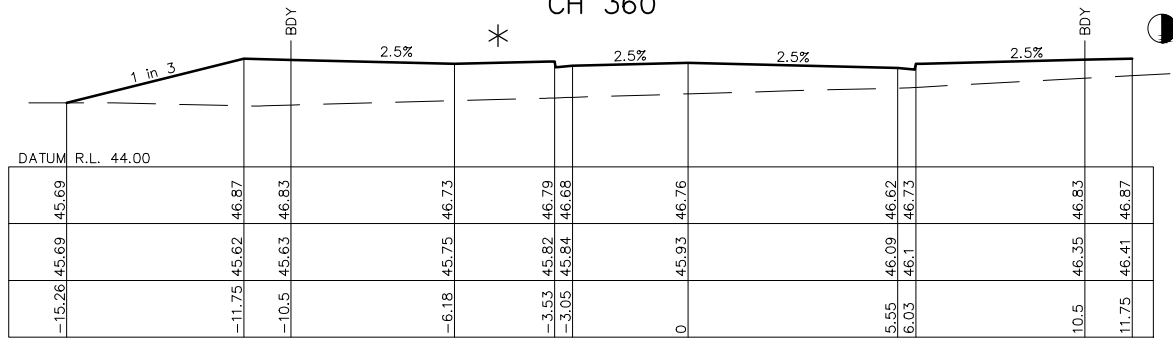
REV.	DATE	AMENDMENT	DESIGN	DRAWN	CHECKED	APPROVED	SCALES	CLIENT	PROPERTY DESCRIPTION	PROJECT
1	21.01.22	ISSUED FOR CONSTRUCTION	B.M.	J.J.	B.M.	B.M.	A1 1:100 0 2.5 5.0m A3 1:200	Central Coast 5 Pioneer Avenue, P.O. Box 3717, Tuggerah N.S.W. 2259 Phone: (02) 4305 4300 Fax: (02) 4305 4399 email: coast@adwjohnson.com.au www.adwjohnson.com.au ABN 62 129 445 398	LOT 100 D.P.1262209 & LOT 1 D.P.859537 EPPING ROAD & LYONPARK ROAD, MACQUARIE PARK SSDA 8903	PROPOSED SUBDIVISION
DESIGN FILE S:\300001\DESIGN\12D\STAGE 2 CC\DESIGN FILE.project								ADW Johnson	GDA94 M.G.A. ZONE 56 A.H.D.	PLAN TITLE ROAD CROSS SECTIONS ROAD No.01 SHEET 5
ALL DIMENSIONS ARE IN METRES. DO NOT SCALE								PROJECT No.	DISCIPLINE	NUMBER
Plotted By: Ben Myles Plot Date: 21/01/22 2:28:58PM Cad File: S:\300001\DRAWINGS\ENGINEERING\CIVIL\STAGE 2 CC ENG\300001(2)-ENG-235.DWG								300001(2) -	ENG	235
								REV.		
								1		

REFER SHEET 501 FOR
SITE REGRADE DETAILS

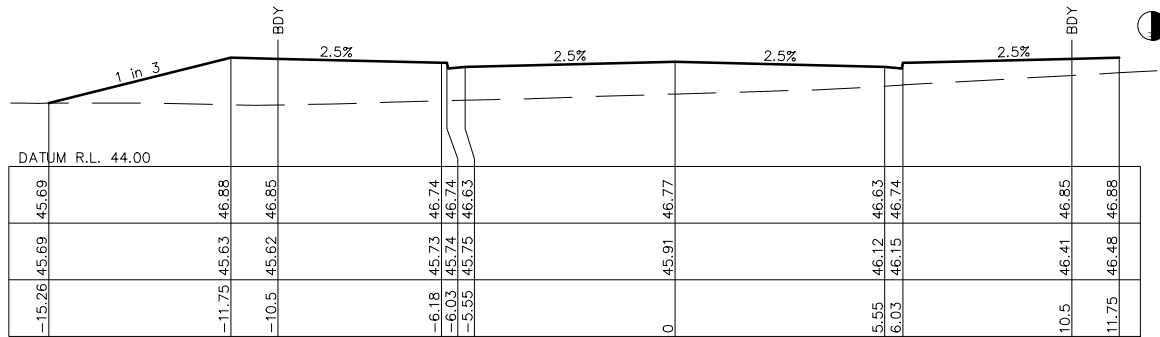
MODIFY CROSS FALL OF
PLANTED ZONES TO
MAINTAIN 2.5%
FOOTPATH



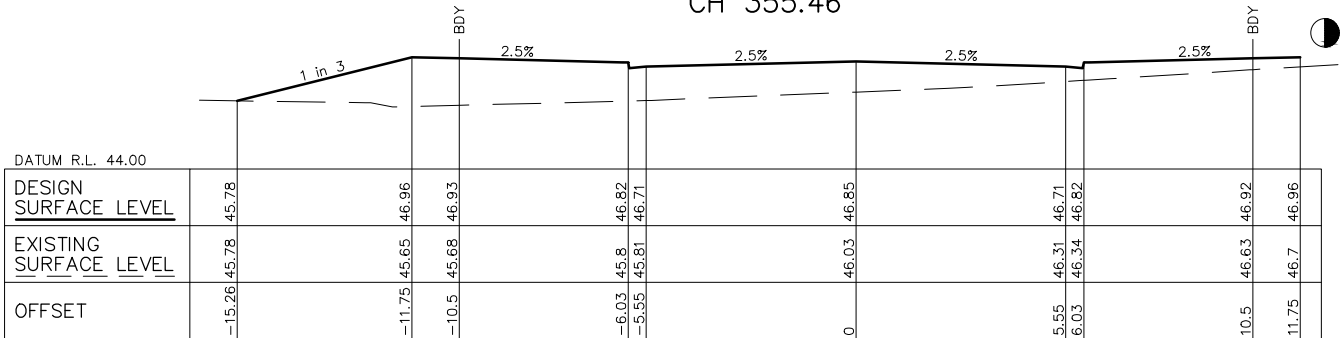
CH 360



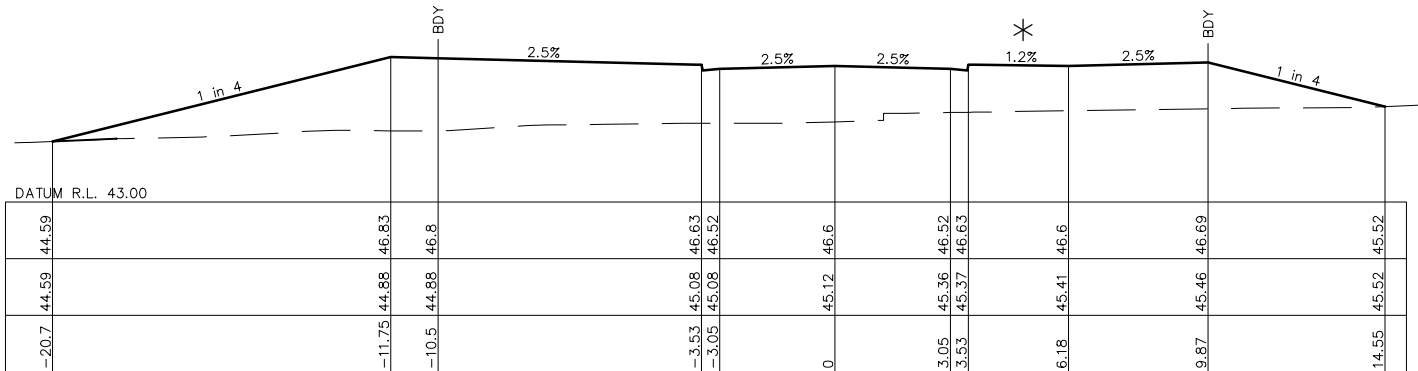
CH 357.06



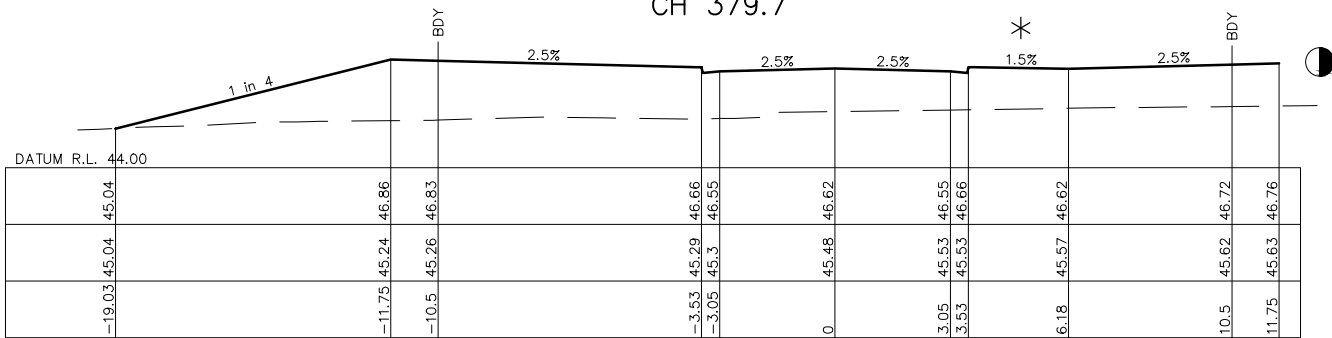
CH 355.46



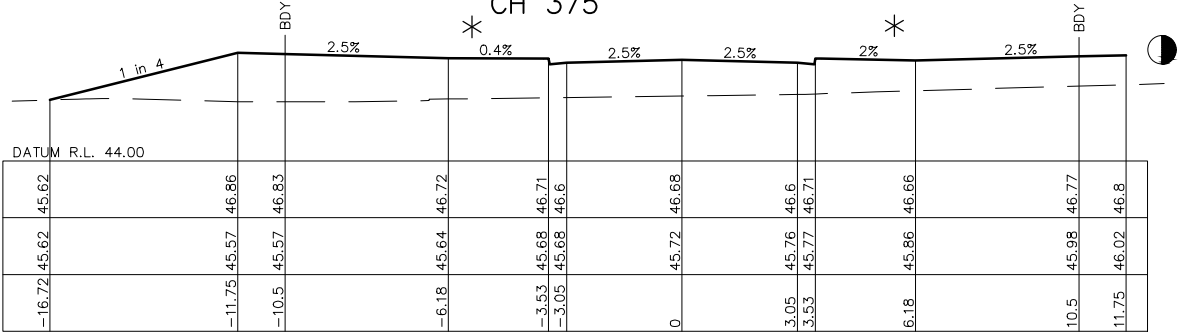
CH 345



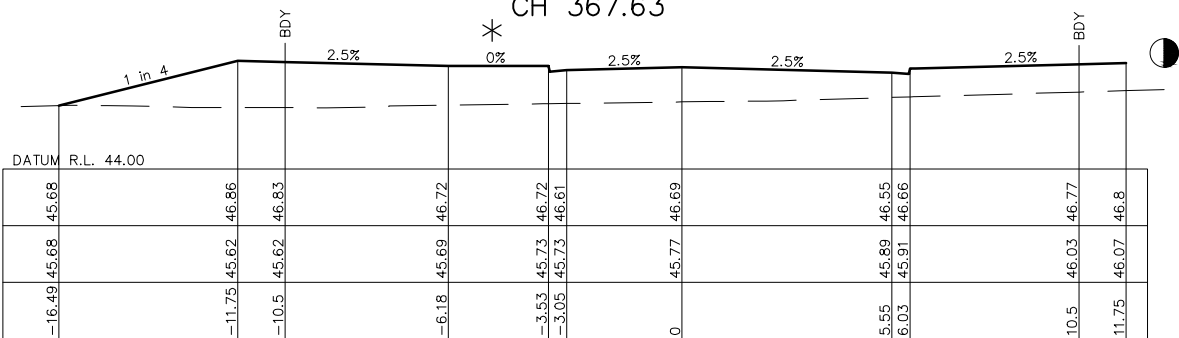
CH 379.7



CH 375



CH 367.63



CH 366.03

LDC

These plans are referred to in certificate no. **16746** approved by:

Eric Hausfeld
Registered Certifier

Registration No: BDC 2416

Categories: Certifier – Subdivision
Certifier – Strata
Certifier – Stormwater
Certifier – Road & Drainage
Certifier – Hydraulic (stormwater)

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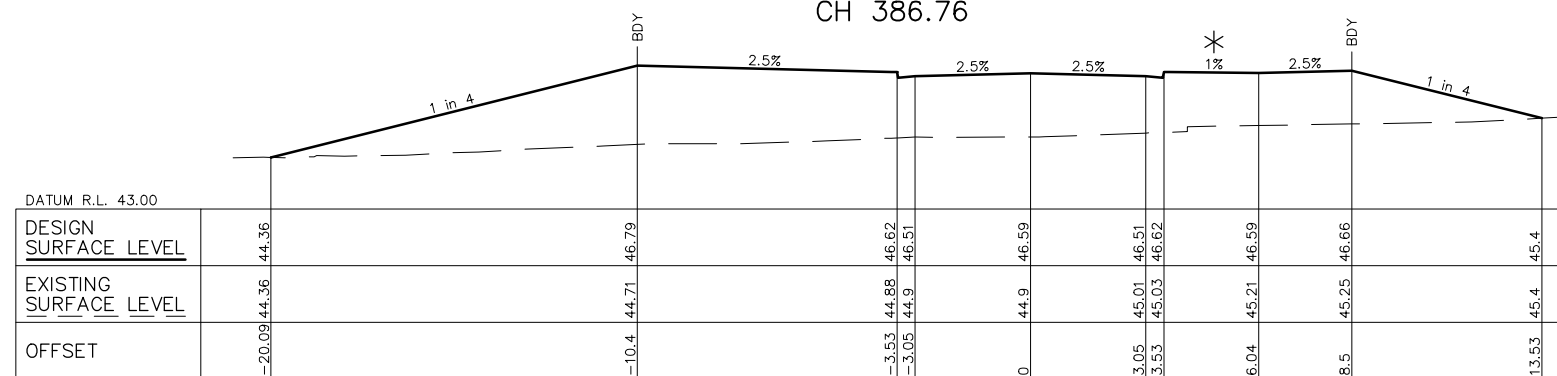


CONSTRUCTION ISSUE

REV.	DATE	AMENDMENT	DESIGN	DRAWN	CHECKED	APPROVED	SCALES	CLIENT	PROPERTY DESCRIPTION	PROJECT	PLAN TITLE	PROJECT No.	DISCIPLINE	NUMBER	REV.
1	21.01.22	ISSUED FOR CONSTRUCTION	B.M.	J.J.	B.M.	B.M.	A1 1:100 A3 1:200	Central Coast 5 Pioneer Avenue, P.O. Box 3717, Tuggerah N.S.W. 2259 Phone: (02) 4305 4300 Fax: (02) 4305 4399 email: coast@adwjohnson.com.au www.adwjohnson.com.au ABN 62 129 445 398	LOT 100 D.P.1262209 & LOT 1 D.P.859537 EPPING ROAD & LYONPARK ROAD, MACQUARIE PARK SSDA 8903	PROPOSED SUBDIVISION	ROAD CROSS SECTIONS ROAD No.01 SHEET 6	300001(2) -	ENG	236	1

DESIGN FILE S:\300001\DESIGN\12D\STAGE 2 CC\DESIGN FILE.project
Plotted By: Ben Myles Plot Date: 21/01/22 2:29:02PM Cad File: S:\300001\DRAWINGS\ENGINEERING\CIVIL\STAGE 2 CC ENG\300001(2)-ENG-236.DWG

* MODIFY CROSS FALL OF
PLANTED ZONES TO
MAINTAIN 2.5%
FOOTPATH



Station	Left	Right	Left	Right	Left	Right	Left	Right
-8	43.87	46.77						
			3.53	43.78	46.66			
			-3.05	43.79	46.55			
0	43.95	46.63						
			3.05	44.12	46.55			
			3.53	44.16	46.66			
6	44.24	46.72						



These plans are referred to in certificate no. **16746** approved by:

Eric Hausfeld
Registered Certifier

Registration No: **BDC 2416**

Categories:

- Certifier – Subdivision
- Certifier – Strata
- Certifier – Stormwater
- Certifier – Road & Drainage
- Certifier – Hydraulic (stormwater)

Land Development Certificates

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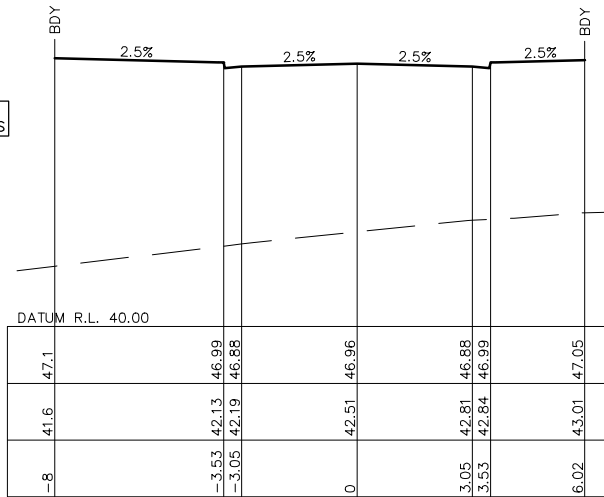
REV.	DATE	AMENDMENT	DESIGN	DRAWN	CHECKED	APPROVED	SCALES		Central Coast 5 Pioneer Avenue, P.O. Box 3717, Tuggerah N.S.W. 2259 Phone: (02) 4305 4300 Fax: (02) 4305 4399 email: coast@adwjohnson.com.au www.adwjohnson.com.au ABN 62 129 445 398	CLIENT 	PROPERTY DESCRIPTION		PROJECT			
1	21.01.22	ISSUED FOR CONSTRUCTION	B.M.	J.J.	B.M.	B.M.	A1 0 2.5 5.0m A3 1:100 1:200				LOT 100 D.P.1262209 & LOT 1 D.P.859537 EPPING ROAD & LYONPARK ROAD, MACQUARIE PARK SSDA 8903		PROPOSED SUBDIVISION PLAN TITLE ROAD CROSS SECTIONS ROAD No.01 SHEET 7			
DESIGN FILE S:\300001\DESIGN\12D\STAGE 2 CC\DESIGN FILE.project								ALL DIMENSIONS ARE IN METRES. DO NOT SCALE			SURVEYED ADW Johnson	DATUM GDA94 M.G.A. ZONE 56 A.H.D.	PROJECT No. 300001(2) -	DISCIPLINE ENG	NUMBER - 237	REV. 1

Plotted By: Ben Myles Plot Date: 21/01/22 2:29:06PM Cad File: S:\300001\DRAWINGS\ENGINEERING\CIVIL\STAGE 2 CC ENG\300001(2)-ENG-237.DWG

REFER SHEET 501 FOR
SITE REGRADE DETAILS

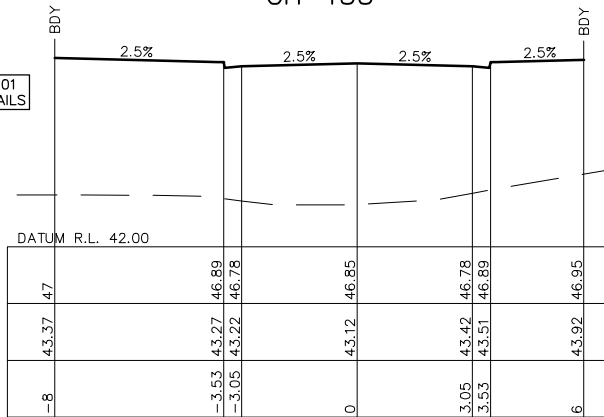
EXISTING RETAINING WALL.
EXCAVATION TO BE
UNDERTAKEN UNDER
GEOTECHNICAL SUPERVISION.
CONTRACTOR TO PREPARE
DILAPIDATION REPORT PRIOR
TO COMMENCING WORKS

REFER SHEET 701
FOR BRIDGE DETAILS



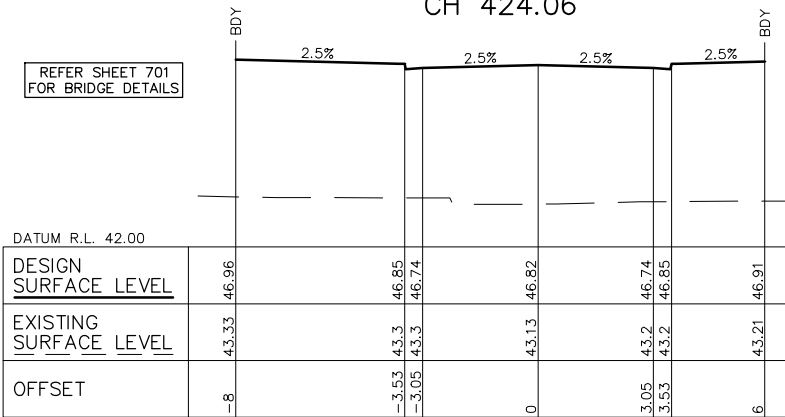
CH 435

REFER SHEET 701
FOR BRIDGE DETAILS

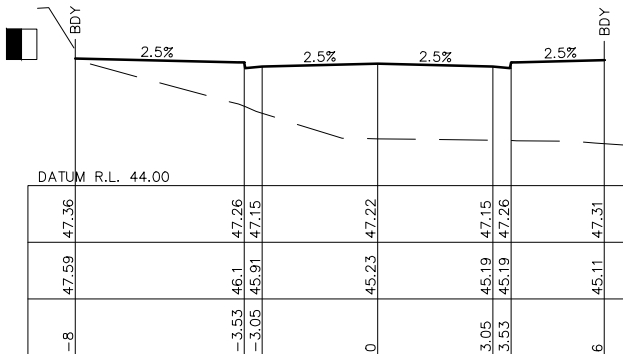


CH 424.06

REFER SHEET 701
FOR BRIDGE DETAILS

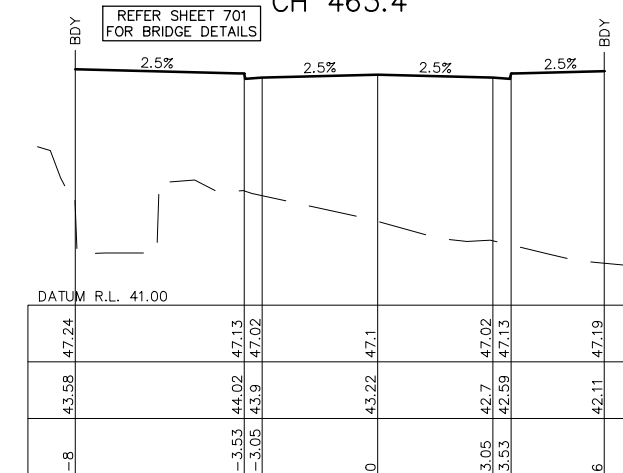


CH 420



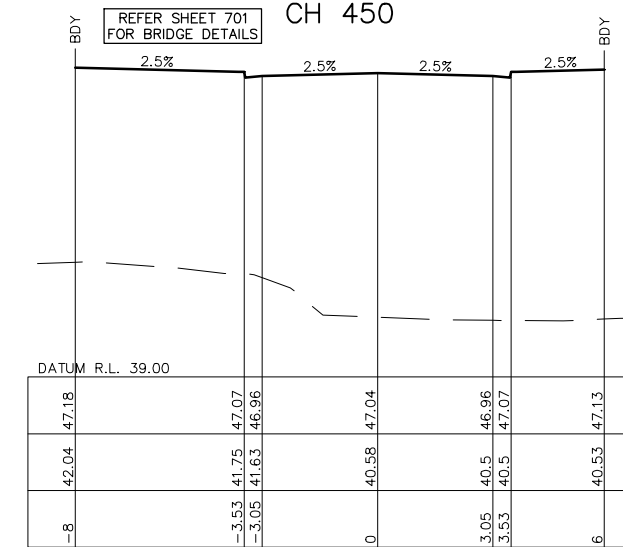
CH 463.4

REFER SHEET 701
FOR BRIDGE DETAILS

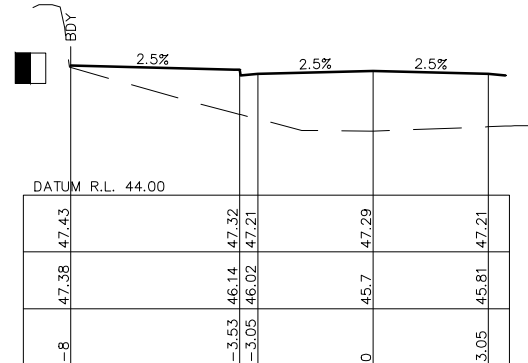


CH 450

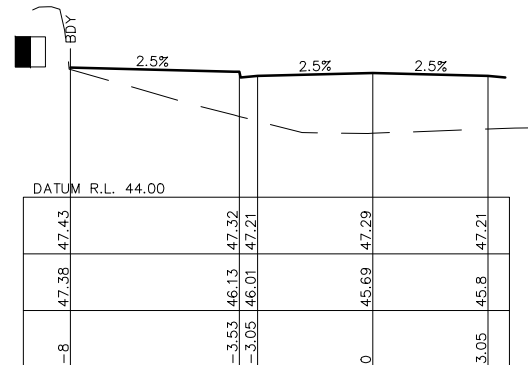
REFER SHEET 701
FOR BRIDGE DETAILS



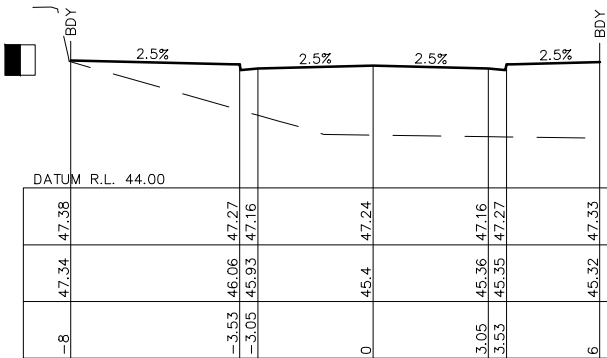
CH 443.71



CH 470.4



CH 470.25



CH 465

LDC These plans are referred to in certificate no. **16746** approved by:

Eric Hausfeld
Registered Certifier
Registration No: BDC 2416
Categories: Certifier – Subdivision
Certifier – Strata
Certifier – Stormwater
Certifier – Road & Drainage
Certifier – Hydraulic (stormwater)

Land Development Certificates
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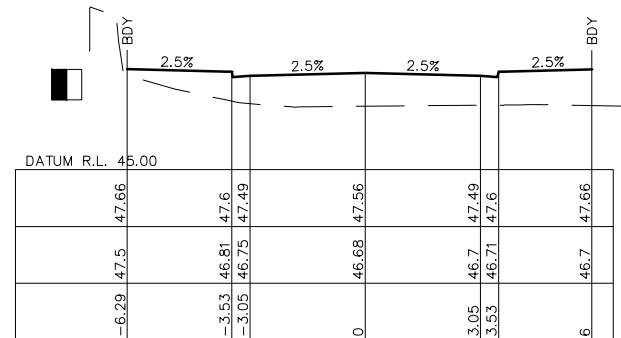


CONSTRUCTION ISSUE

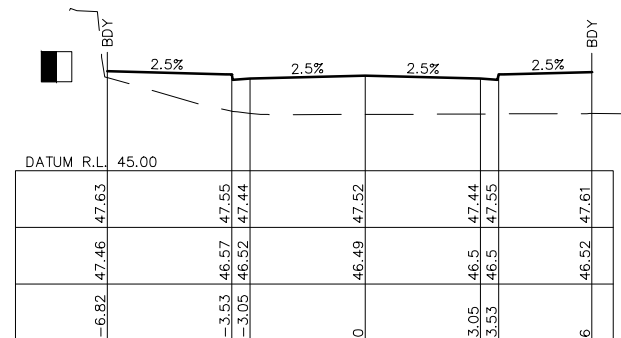
REV.	DATE	AMENDMENT	DESIGN	DRAWN	CHECKED	APPROVED	SCALES	CLIENT	PROPERTY DESCRIPTION	PROJECT
1	21.01.22	ISSUED FOR CONSTRUCTION	B.M.	J.J.	B.M.	B.M.	A1 1:100 A3 1:200	Central Coast 5 Pioneer Avenue, P.O. Box 3717, Tuggerah N.S.W. 2259 Phone: (02) 4305 4300 Fax: (02) 4305 4399 email: coast@adwjohnson.com.au www.adwjohnson.com.au ABN 62 129 445 398	LOT 100 D.P.1262209 & LOT 1 D.P.859537 EPPING ROAD & LYONPARK ROAD, MACQUARIE PARK SSDA 8903	PROPOSED SUBDIVISION
DESIGN FILE S:\300001\DESIGN\12D\STAGE 2 CC\DESIGN FILE.project								PLAN TITLE ROAD CROSS SECTIONS ROAD No.01 SHEET 8		
ALL DIMENSIONS ARE IN METRES. DO NOT SCALE								PROJECT No. 300001(2) - DISCIPLINE ENG - NUMBER 238 - REV. 1		
Plotted By: Ben Myles Plot Date: 21/01/22 2:29:10PM Cad File: S:\300001\DRAWINGS\ENGINEERING\CIVIL\STAGE 2 CC ENG\300001(2)-ENG-238.DWG								SURVEYED ADW Johnson DATUM GDA94 M.G.A. ZONE 56 A.H.D.		

REFER SHEET 501 FOR
SITE REGRADE DETAILS

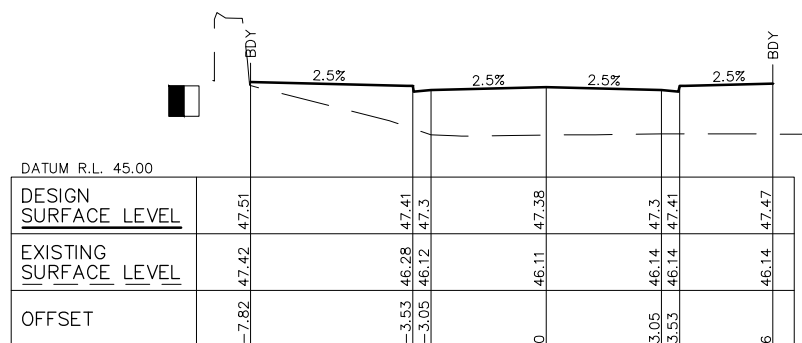
EXISTING RETAINING WALL.
EXCAVATION TO BE
UNDERTAKEN UNDER
GEOTECHNICAL SUPERVISION.
CONTRACTOR TO PREPARE
DILAPIDATION REPORT PRIOR
TO COMMENCING WORKS



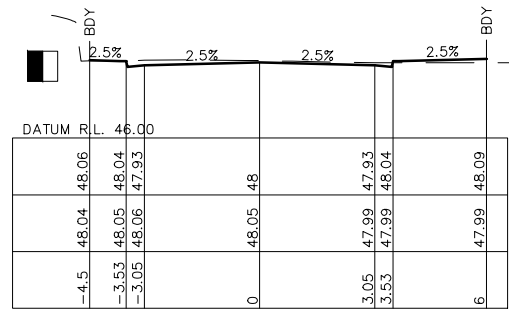
CH 500



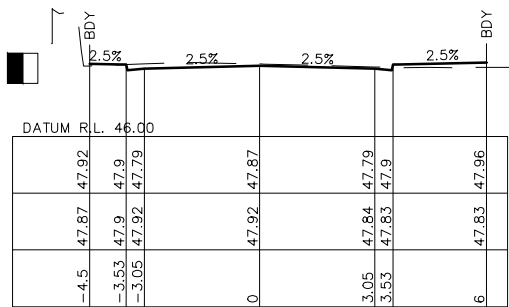
CH 495



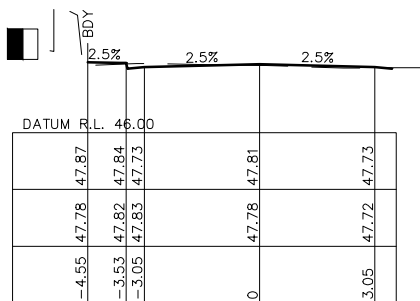
CH 480



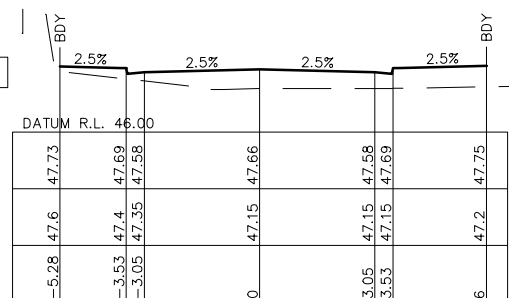
CH 540



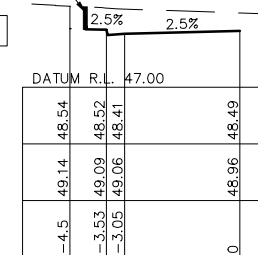
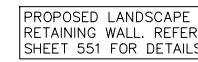
CH 529.6



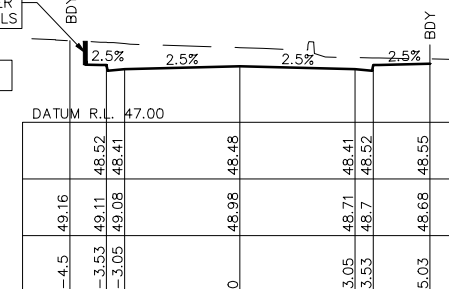
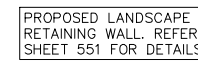
CH 524.72



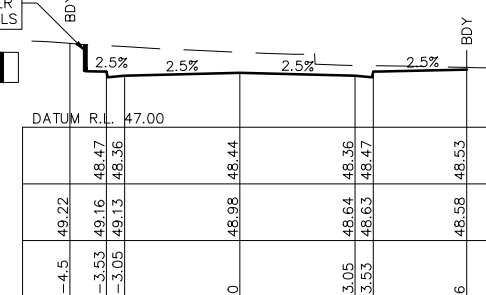
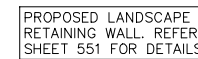
CH 510



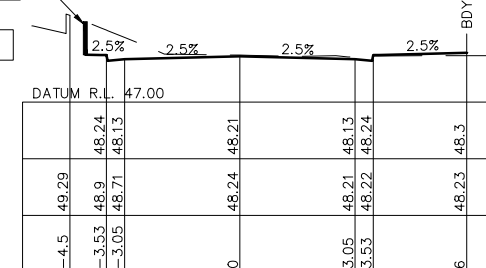
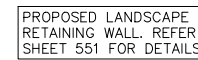
CH 572.45



CH 572.08



CH 570



CH 555



These plans are referred to in certificate no. **16746** approved by:

Eric Hausfeld
Registered Certifier

Registration No: BDC 2416

Categories:

- Certifier – Subdivision
- Certifier – Strata
- Certifier – Stormwater
- Certifier – Road & Drainage
- Certifier – Hydraulic (stormwater)

Land Development Certificates

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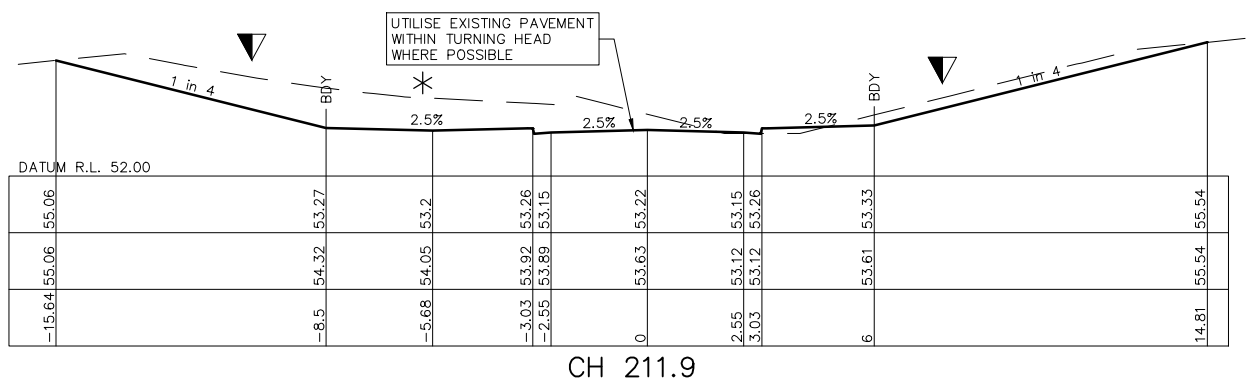
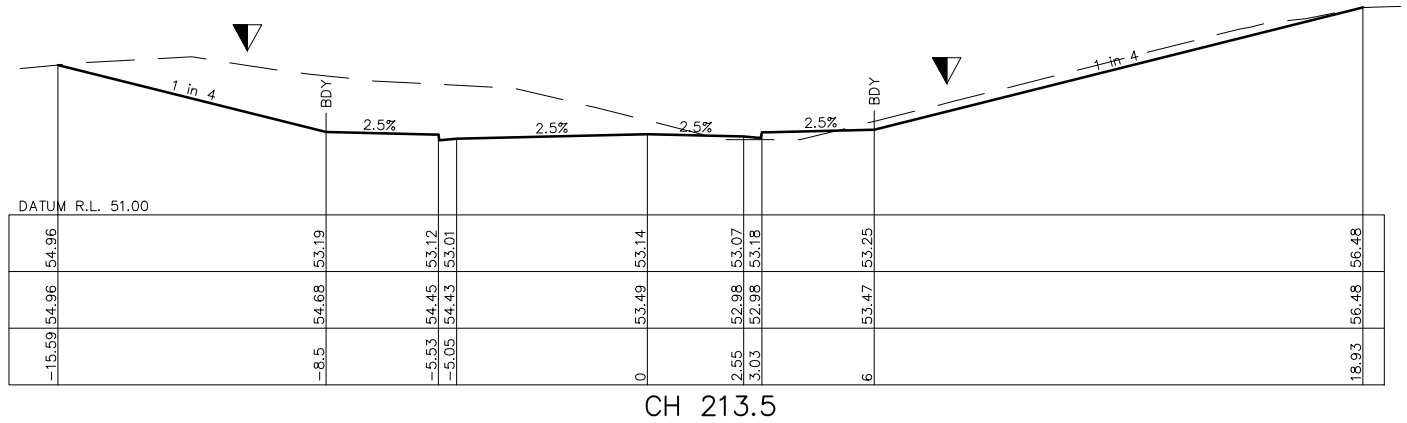
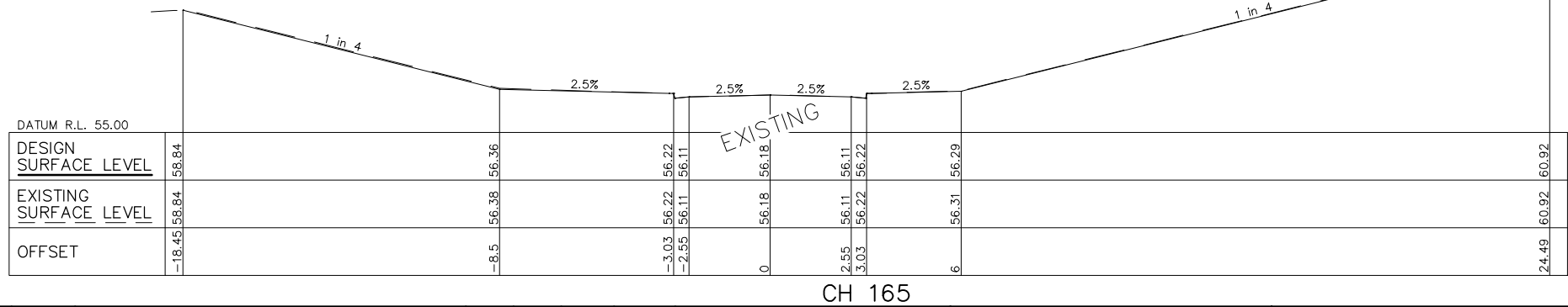
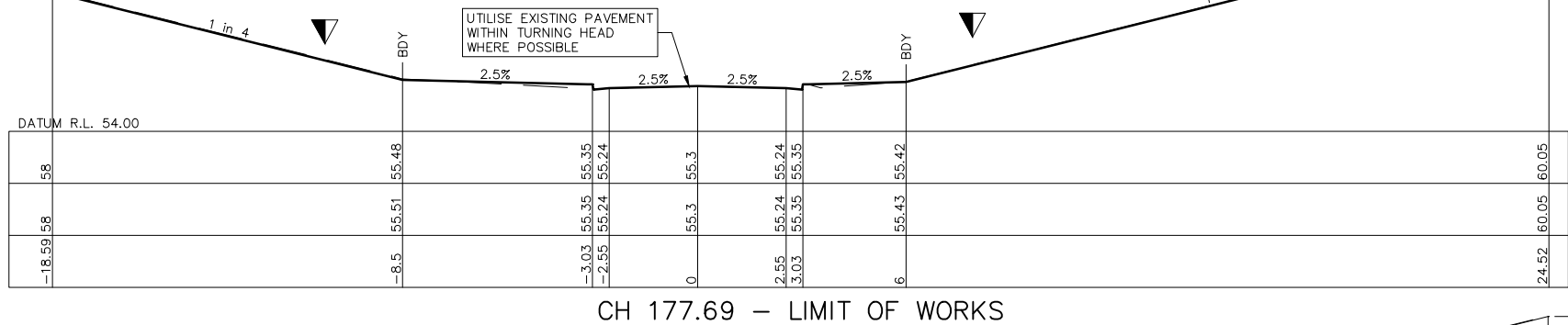
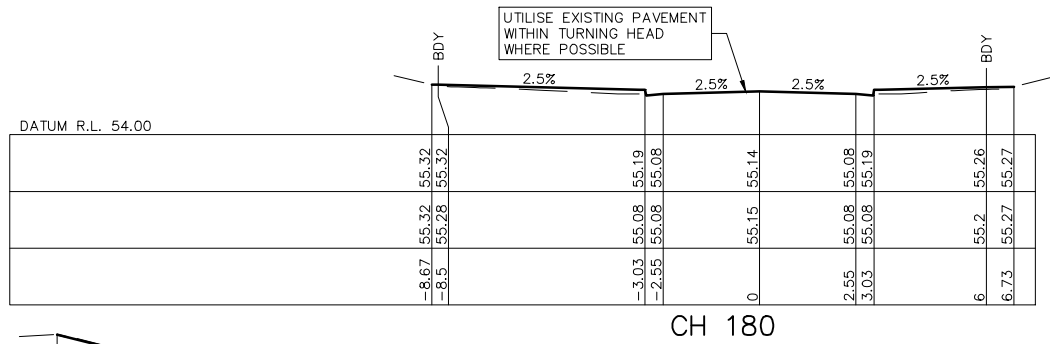
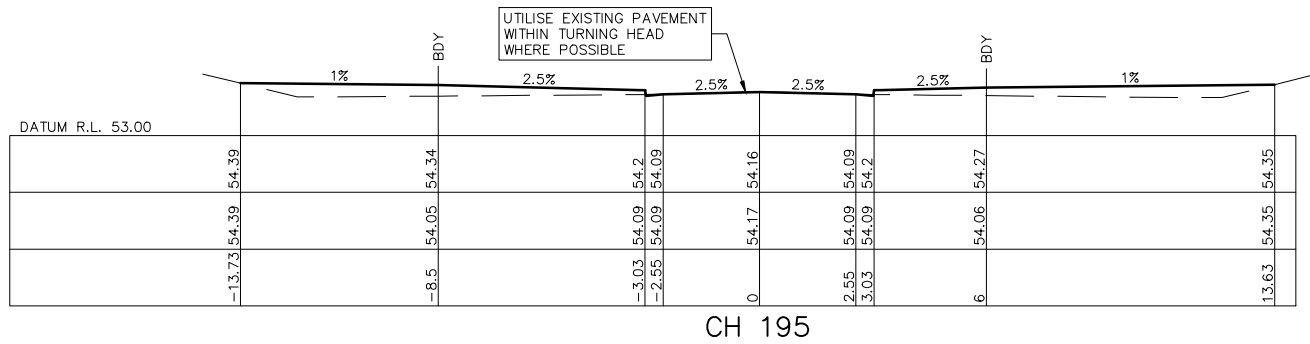
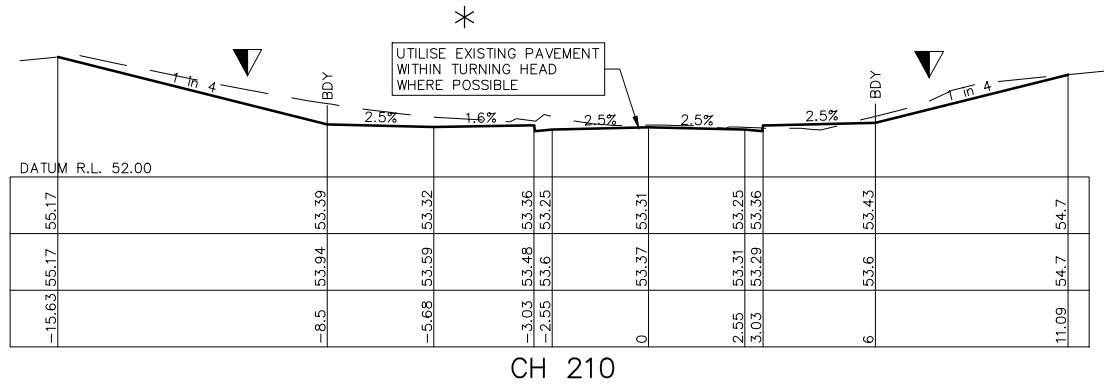


CONSTRUCTION ISSUE

REV.	DATE	AMENDMENT	DESIGN	DRAWN	CHECKED	APPROVED	SCALES		Central Coast 5 Pioneer Avenue, P.O. Box 3717, Tuggerah N.S.W. 2259 Phone: (02) 4305 4300 Fax: (02) 4305 4399 email: coast@adwjohnson.com.au www.adwjohnson.com.au ABN 62 129 445 398		CLIENT	PROPERTY DESCRIPTION LOT 100 D.P.1262209 & LOT 1 D.P.859537 EPPING ROAD & LYONPARK ROAD, MACQUARIE PARK SSDA 8903		PROJECT PROPOSED SUBDIVISION				
1	21.01.22	ISSUED FOR CONSTRUCTION	B.M.	J.J.	B.M.	B.M.								PLAN TITLE ROAD CROSS SECTIONS ROAD No.01 SHEET 9				
DESIGN FILE S:\300001\DESIGN\120\STAGE 2 CC\DESIGN FILE.project							ALL DIMENSIONS ARE IN METRES. DO NOT SCALE				SURVEYED ADW Johnson		DATUM GDA94 M.G.A. ZONE 56 A.H.D.		PROJECT No. 300001(2) -	DISCIPLINE ENG -	NUMBER 239	REV. 1

▽ BERM TO BE PROVIDED AT
BASE OF ALL BATTERS. REFER
SHEET 202 FOR DETAILS.

* MODIFY CROSS FALL OF
PLANTED ZONES TO
MAINTAIN 2.5%
FOOTPATH



LDC

These plans are referred to in
certificate no. **16746** approved by:

Eric Hausfeld
Registered Certifier

Registration No: BDC 2416

Categories:
Certifier - Subdivision
Certifier - Strata
Certifier - Stormwater
Certifier - Road & Drainage
Certifier - Hydraulic (stormwater)

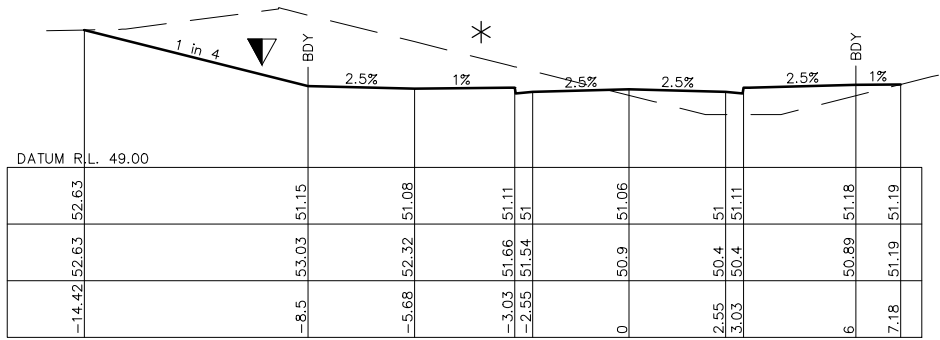
Land Development Certificates
www.LDC.com.au



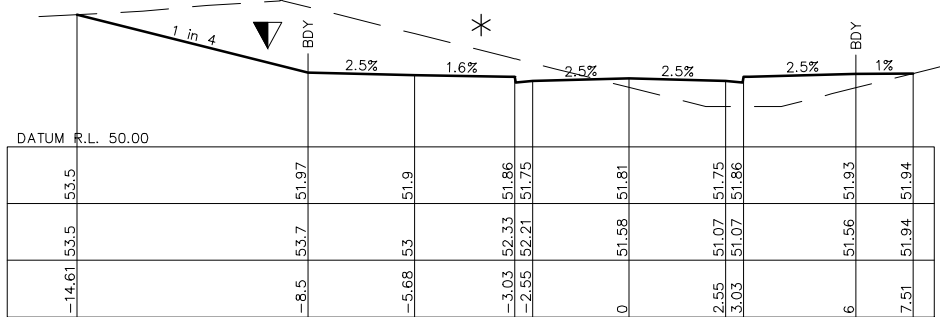
CONSTRUCTION ISSUE

REV.	DATE	AMENDMENT	DESIGN	DRAWN	CHECKED	APPROVED	SCALES	CLIENT	PROPERTY DESCRIPTION	PROJECT	PLAN TITLE	PROJECT No.	DISCIPLINE	NUMBER	REV.
1	21.01.22	ISSUED FOR CONSTRUCTION	B.M.	J.J.	B.M.	B.M.	A1 1:100 A3 1:200	Central Coast 5 Pioneer Avenue, P.O. Box 3717, Tuggerah N.S.W. 2259 Phone: (02) 4305 4300 Fax: (02) 4305 4399 email: coast@adwjohnson.com.au www.adwjohnson.com.au ABN 62 129 445 398	LOT 100 D.P.1262209 & LOT 1 D.P.859537 EPPING ROAD & LYONPARK ROAD, MACQUARIE PARK SSDA 8903	PROPOSED SUBDIVISION	ROAD CROSS SECTIONS ROAD No.02 SHEET 1	300001(2) -	ENG	240	1

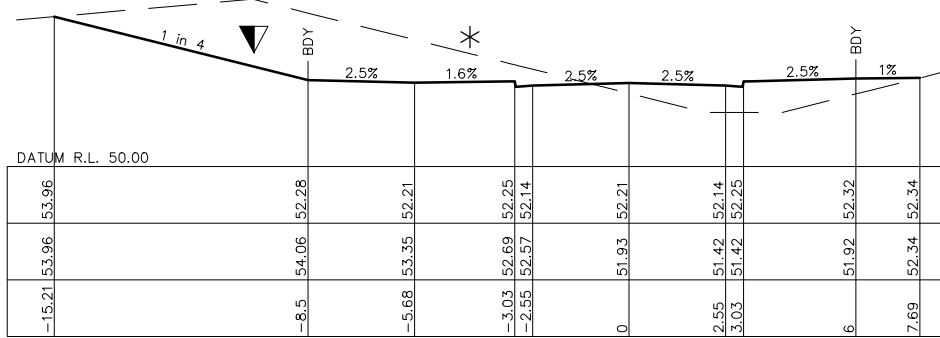
DESIGN FILE S:\300001\DESIGN\12D\STAGE 2 CC\DESIGN FILE\project
ALL DIMENSIONS ARE IN METRES. DO NOT SCALE
Plotted By: Ben Myles Plot Date: 21/01/22 2:29:18PM Cad File: S:\300001\DRAWINGS\ENGINEERING\CIVIL\STAGE 2 CC ENG\300001(2)-ENG-240.DWG



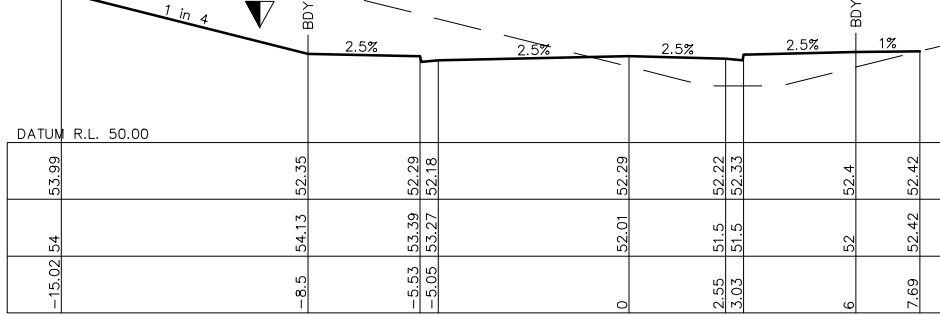
CH 255



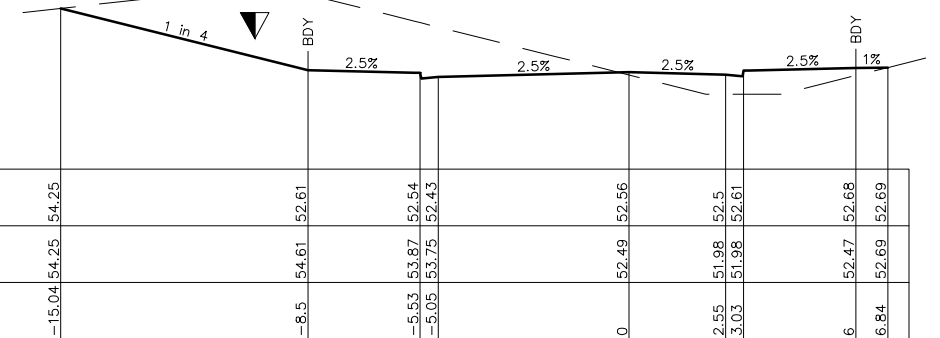
CH 240



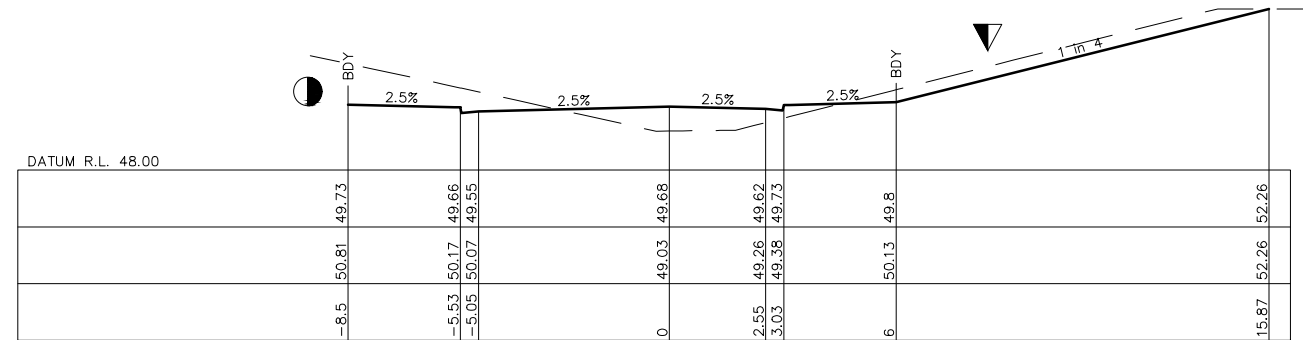
CH 232.1



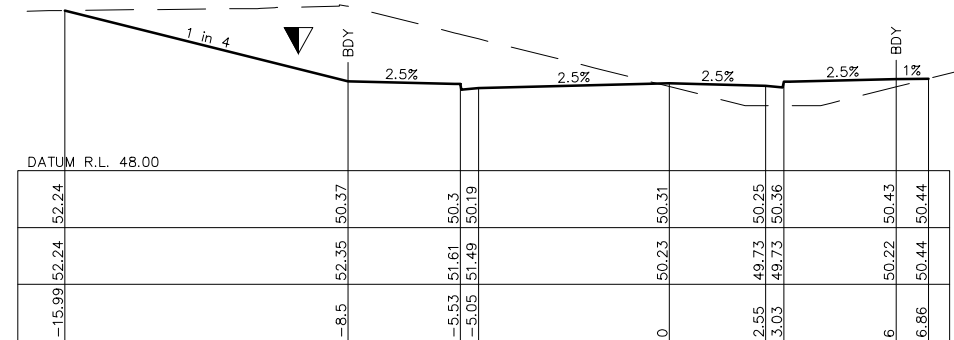
CH 230.5



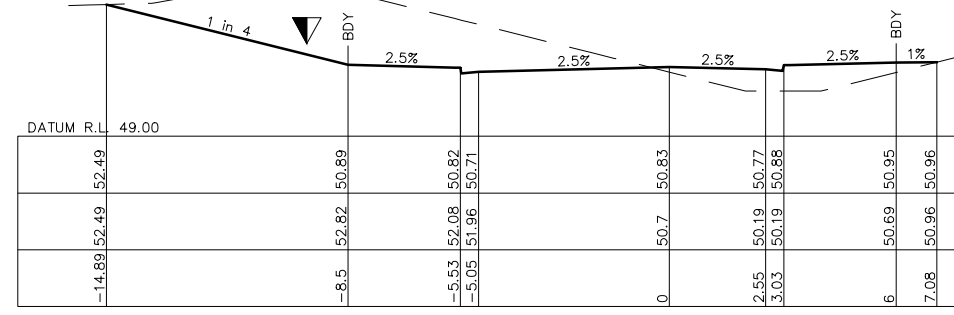
CH 225



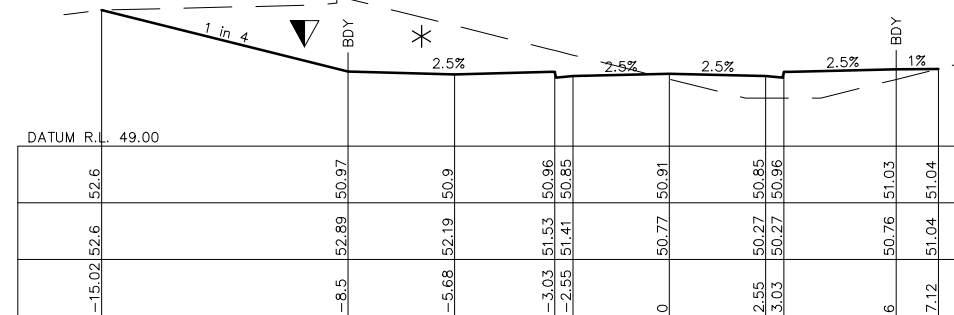
CH 285



CH 270



CH 259.53



CH 257.93

- REFER SHEET 501 FOR SITE REGRADE DETAILS
- BERM TO BE PROVIDED AT BASE OF ALL BATTERS. REFER SHEET 202 FOR DETAILS.
- MODIFY CROSS FALL OF PLANTED ZONES TO MAINTAIN 2.5% FOOTPATH

LDC

These plans are referred to in certificate no. **16746** approved by:

Eric Hausfeld
Registered Certifier

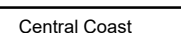
Registration No: BDC 2416

Categories: Certifier - Subdivision
Certifier - Strata
Certifier - Stormwater
Certifier - Road & Drainage
Certifier - Hydraulic (stormwater)

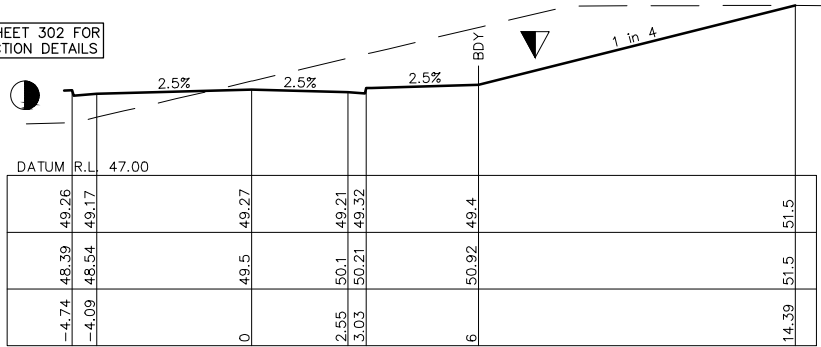
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CONSTRUCTION ISSUE

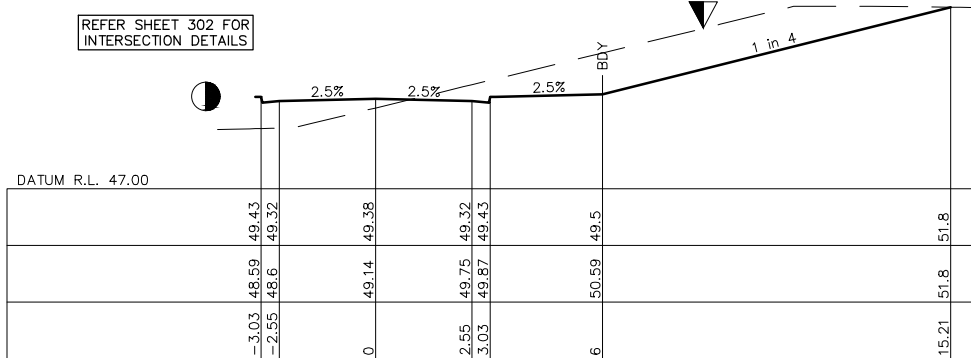
REV.	DATE	AMENDMENT	DESIGN	DRAWN	CHECKED	APPROVED	SCALES		Central Coast 5 Pioneer Avenue, P.O. Box 3717, Tuggerah N.S.W. 2259 Phone: (02) 4305 4300 Fax: (02) 4305 4399 email: coast@adwjohnson.com.au www.adwjohnson.com.au ABN 62 129 445 398		CLIENT	PROPERTY DESCRIPTION			PROJECT														
1	21.01.22	ISSUED FOR CONSTRUCTION	B.M.	J.J.	B.M.	B.M.	A1 1:100						A3 1:200	LOT 100 D.P.1262209 & LOT 1 D.P.859537 EPPING ROAD & LYONPARK ROAD, MACQUARIE PARK SSDA 8903			PROPOSED SUBDIVISION												
DESIGN FILE S:\300001\DESIGN\12D\STAGE 2 CC\DESIGN FILE.project												ALL DIMENSIONS ARE IN METRES. DO NOT SCALE								PLAN TITLE			ROAD CROSS SECTIONS ROAD No.02 SHEET 2						
																SURVEYED ADW Johnson			DATUM GDA94 M.G.A. ZONE 56 A.H.D.			PROJECT No. 300001(2) -		DISCIPLINE ENG -		NUMBER 241		REV. 1	

REFER SHEET 302 FOR
INTERSECTION DETAILS



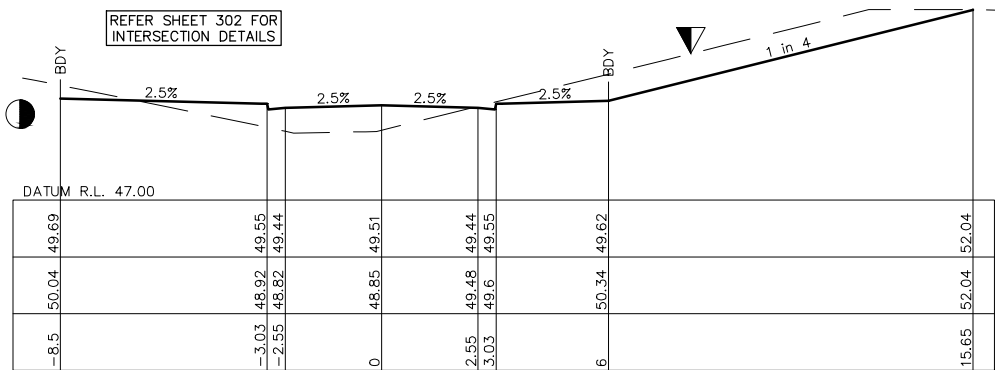
CH 298.54

REFER SHEET 302 FOR
INTERSECTION DETAILS



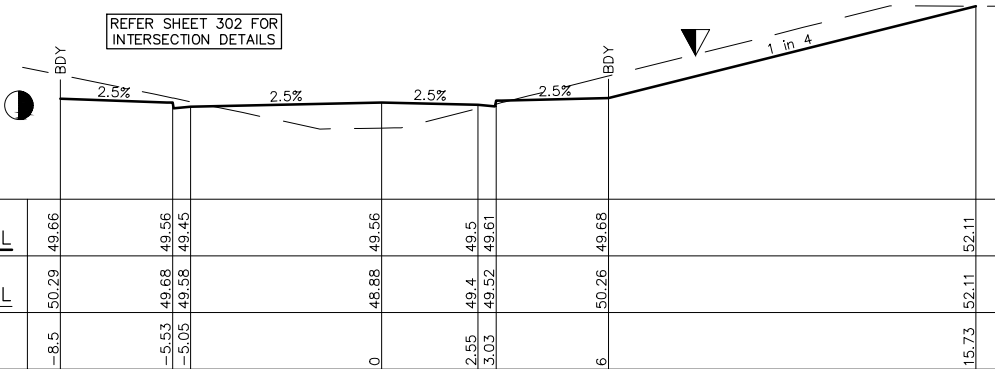
CH 294.35

REFER SHEET 302 FOR
INTERSECTION DETAILS



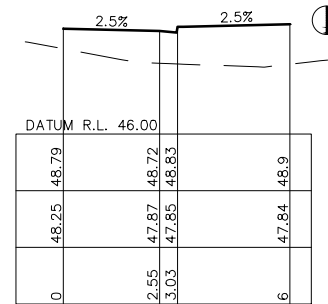
CH 290.13

REFER SHEET 302 FOR
INTERSECTION DETAILS



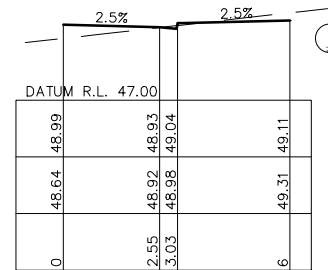
CH 288.53

REFER SHEET 302 FOR
INTERSECTION DETAILS



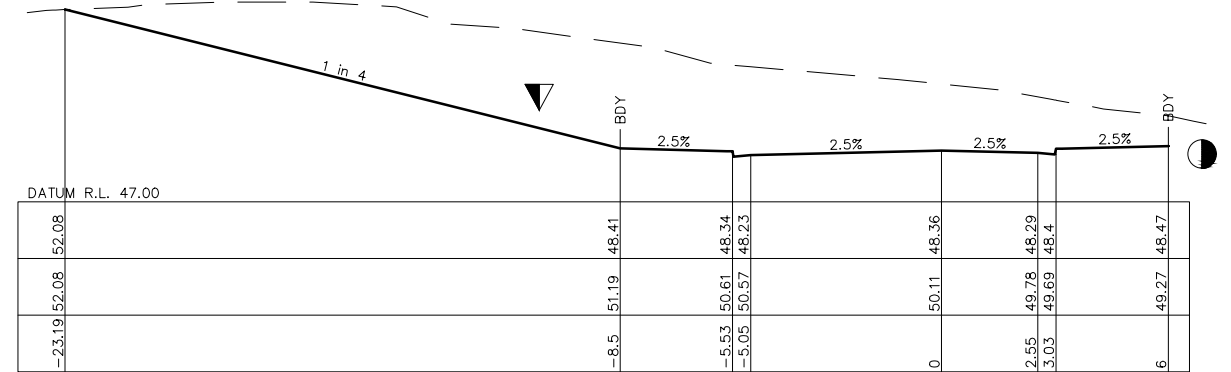
CH 315

REFER SHEET 302 FOR
INTERSECTION DETAILS

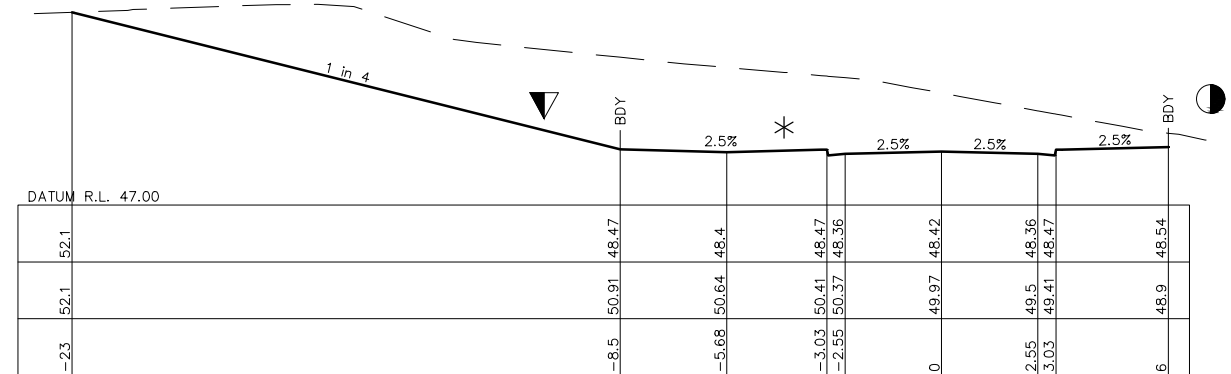


CH 308.55

- REFER SHEET 501 FOR
SITE REGRADE DETAILS
- BERM TO BE PROVIDED AT
BASE OF ALL BATTERS. REFER
SHEET 202 FOR DETAILS.
- MODIFY CROSS FALL OF
PLANTED ZONES TO
MAINTAIN 2.5%
FOOTPATH

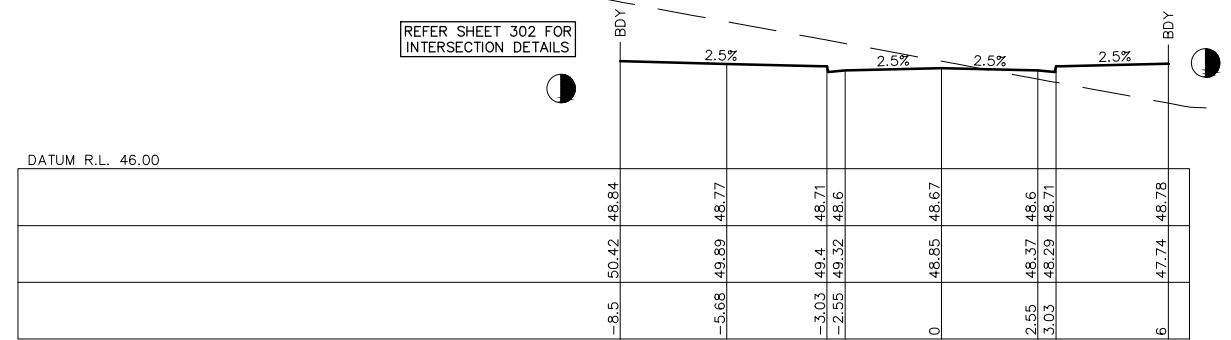


CH 326.44



CH 324.84

REFER SHEET 302 FOR
INTERSECTION DETAILS



CH 318.41

LDC These plans are referred to in certificate no. **16746** approved by:

Eric Hausfeld
Registered Certifier
Registration No: BDC 2416
Categories: Certifier - Subdivision
Certifier - Strata
Certifier - Stormwater
Certifier - Road & Drainage
Certifier - Hydraulic (stormwater)

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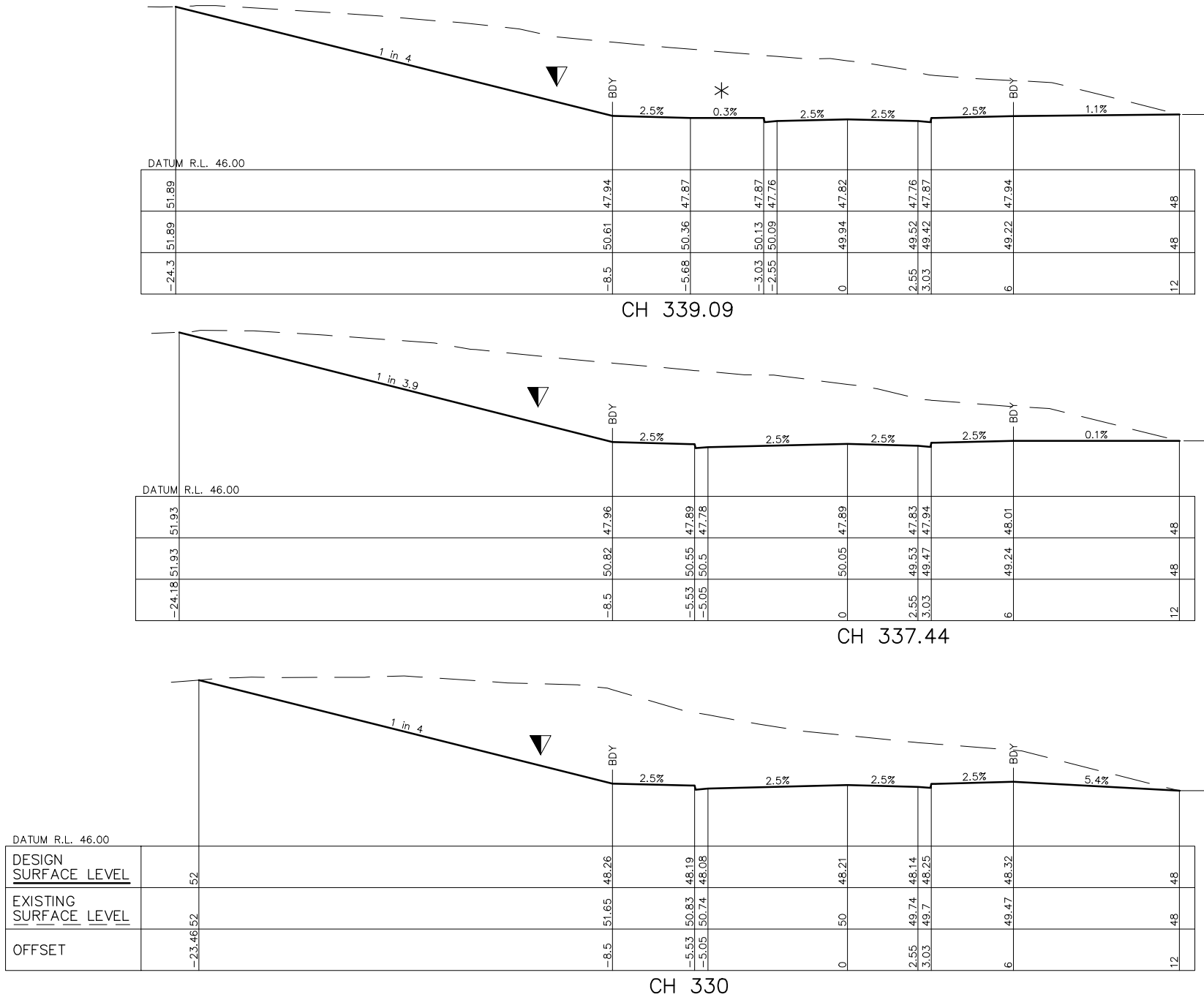
CONSTRUCTION ISSUE

REV.	DATE	AMENDMENT	DESIGN	DRAWN	CHECKED	APPROVED	SCALES	CLIENT	PROPERTY DESCRIPTION	PROJECT	PLAN TITLE	PROJECT No.	DISCIPLINE	NUMBER	REV.
1	21.01.22	ISSUED FOR CONSTRUCTION	B.M.	J.J.	B.M.	B.M.	A1 1:100 0 2.5 5.0m A3 1:200	Central Coast 5 Pioneer Avenue, P.O. Box 3717, Tuggerah N.S.W. 2259 Phone: (02) 4305 4300 Fax: (02) 4305 4399 email: coast@adwjohnson.com.au www.adwjohnson.com.au ABN 62 129 445 398	LOT 100 D.P.1262209 & LOT 1 D.P.859537 EPPING ROAD & LYONPARK ROAD, MACQUARIE PARK SSDA 8903	PROPOSED SUBDIVISION	ROAD CROSS SECTIONS ROAD No.02 SHEET 3	300001(2) -	ENG	242	1

DESIGN FILE S:\300001\DESIGN\12D\STAGE 2 CC\DESIGN FILE.project
Plotted By: Ben Myles Plot Date: 21/01/22 2:29:26PM Cad File: S:\300001\DRAWINGS\ENGINEERING\CIVIL\STAGE 2 CC ENG\300001(2)-ENG-242.DWG

BERM TO BE PROVIDED AT
BASE OF ALL BATTERS. REFER
SHEET 202 FOR DETAILS.

*
MODIFY CROSS FALL OF
PLANTED ZONES TO
MAINTAIN 2.5%
FOOTPATH





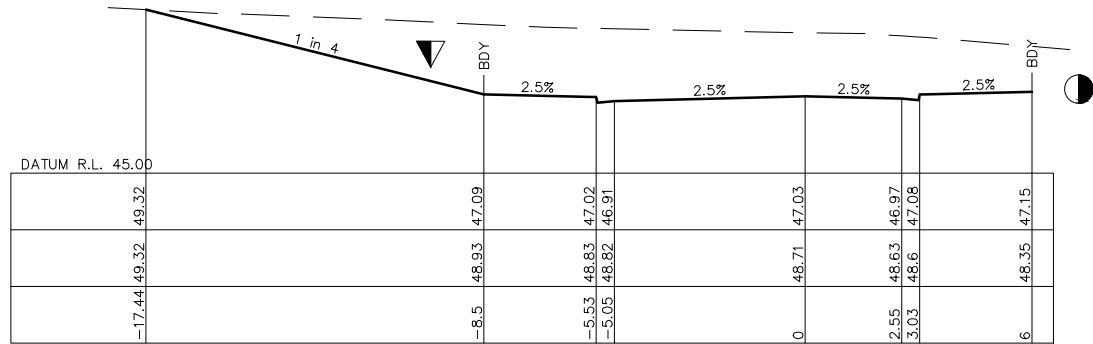
These plans are referred to in
certificate no. **16746** approved by:
Eric Hausfeld
Registered Certifier
Registration No: BDC 2416
Categories: Certifier – Subdivision
Certifier – Strata
Certifier – Stormwater
Certifier – Road & Drainage
Certifier – Hydraulic (stormwater)

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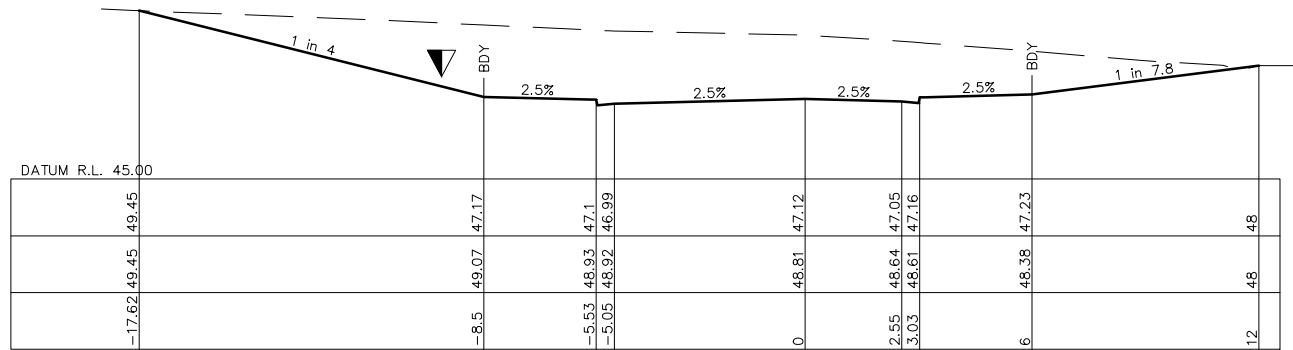


CONSTRUCTION ISSUE

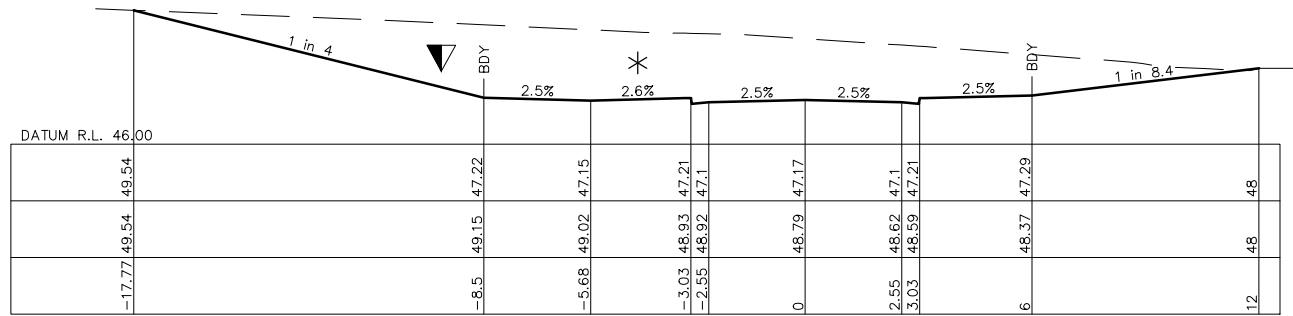
REV.	DATE	AMENDMENT	DESIGN	DRAWN	CHECKED	APPROVED	SCALES		Central Coast 5 Pioneer Avenue, P.O. Box 3717, Tuggerah N.S.W. 2259 Phone: (02) 4305 4300 Fax: (02) 4305 4399 email: coast@adwjohnson.com.au www.adwjohnson.com.au ABN 62 129 445 398		CLIENT	PROPERTY DESCRIPTION		PROJECT						
1	21.01.22	ISSUED FOR CONSTRUCTION	B.M.	J.J.	B.M.	B.M.	 <td colspan="2">LOT 100 D.P.1262209 & LOT 1 D.P.859537 EPPING ROAD & LYONPARK ROAD, MACQUARIE PARK SSDA 8903</td> <td colspan="4">PROPOSED SUBDIVISION</td>					LOT 100 D.P.1262209 & LOT 1 D.P.859537 EPPING ROAD & LYONPARK ROAD, MACQUARIE PARK SSDA 8903		PROPOSED SUBDIVISION						
												ROAD CROSS SECTIONS ROAD No.02 SHEET 4								
DESIGN FILE S:\300001\DESIGN\12D\STAGE 2 CC\DESIGN FILE.project							ALL DIMENSIONS ARE IN METRES. DO NOT SCALE		SURVEYED ADW Johnson		DATUM GDA94 M.G.A. ZONE 56 A.H.D.		PROJECT No. 300001(2) -		DISCIPLINE ENG -		NUMBER 243		REV. 1	



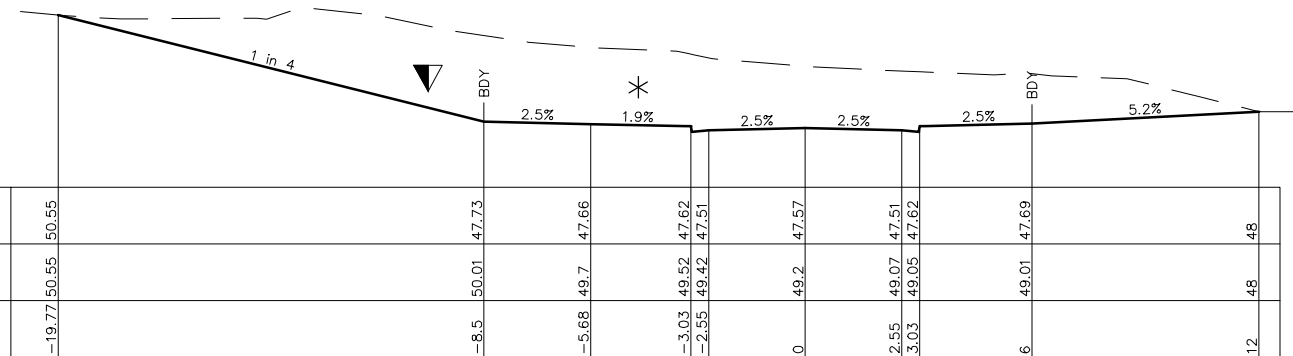
CH 360



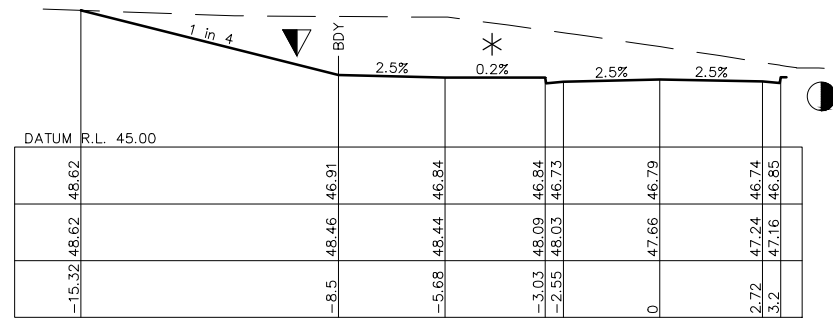
CH 357.14



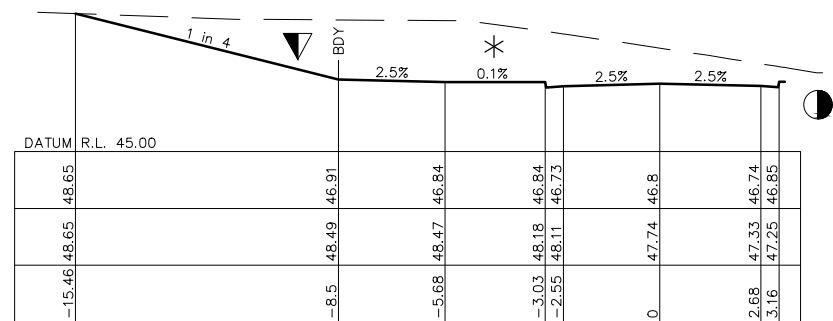
CH 355.54



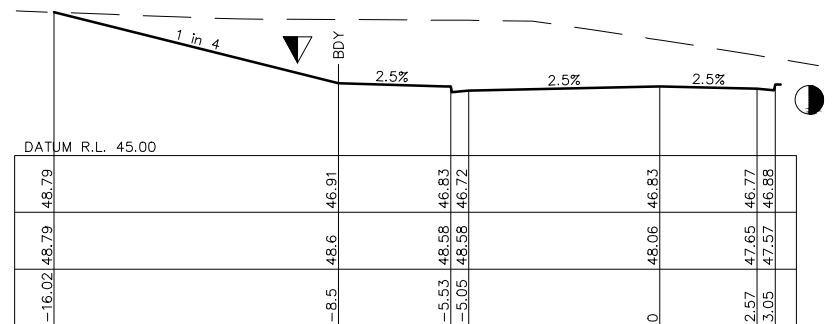
CH 345



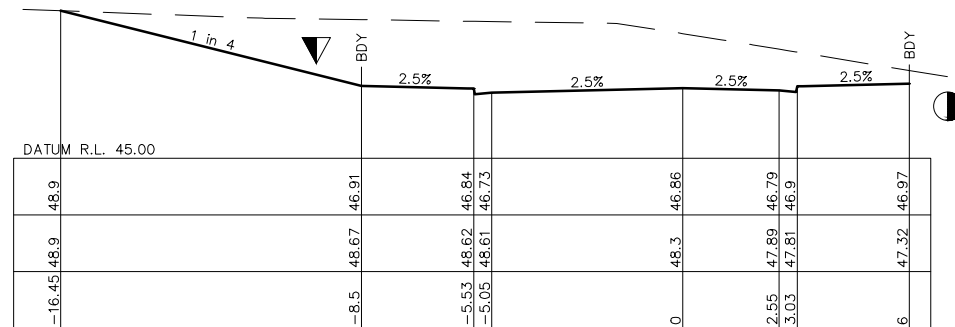
CH 370.15



CH 369.74



CH 368.14



CH 366.92

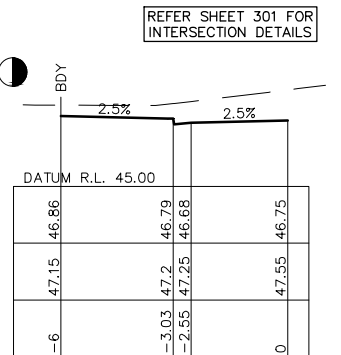
These plans are referred to in certificate no. **16746** approved by:

Eric Hausfeld
Registered Certifier

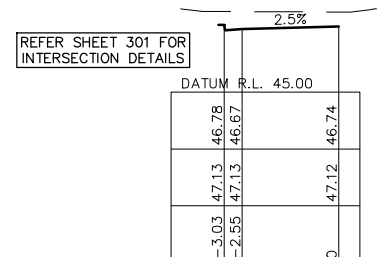
Registration No: BDC 2416

Categories: Certifier - Subdivision
Certifier - Strata
Certifier - Stormwater
Certifier - Road & Drainage
Certifier - Hydraulic (stormwater)

Land Development Certificates
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CH 377.21



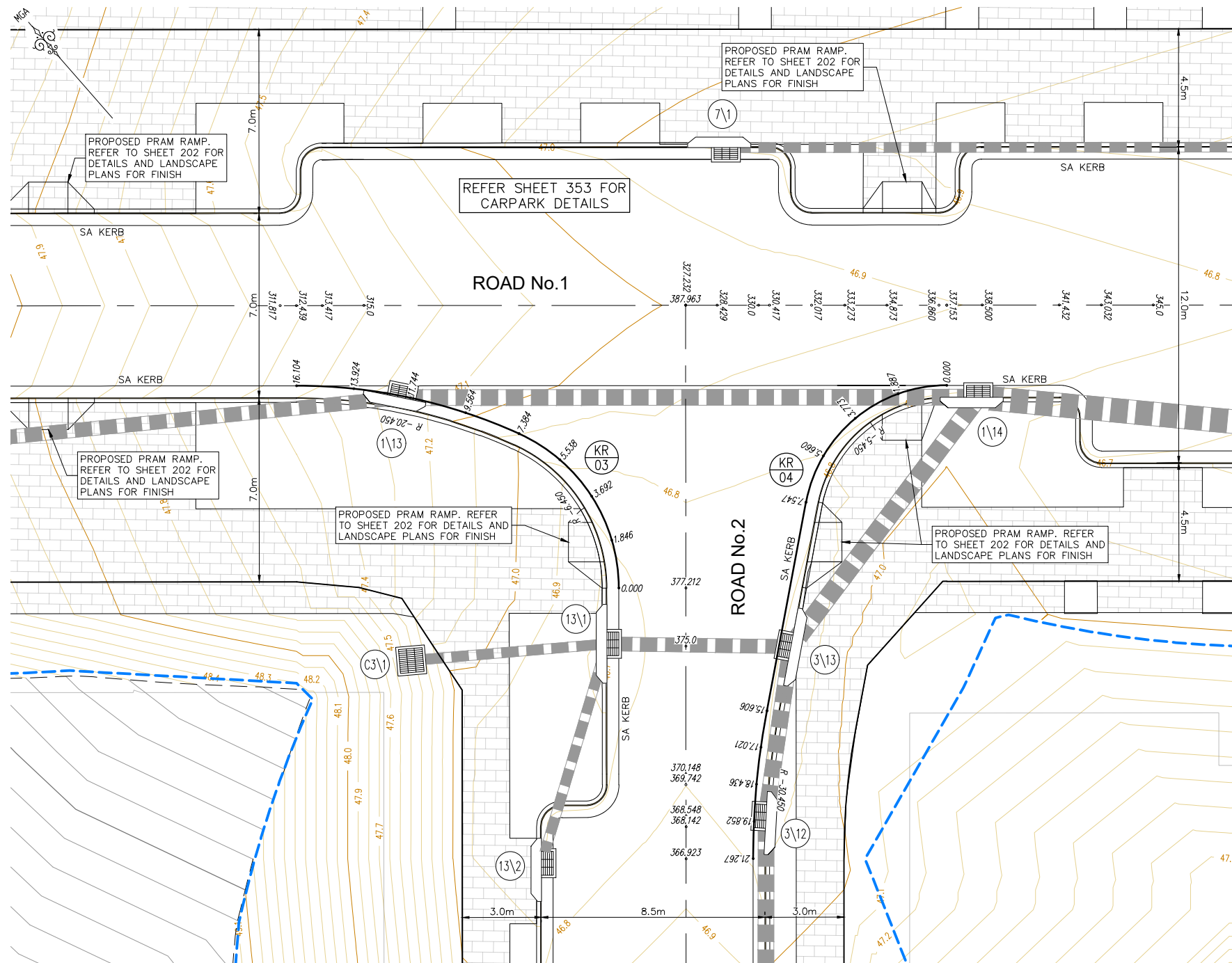
CH 375

- REFER SHEET 501 FOR SITE REGRADE DETAILS
- BERM TO BE PROVIDED AT BASE OF ALL BATTERS. REFER SHEET 202 FOR DETAILS.
- MODIFY CROSS FALL OF PLANTED ZONES TO MAINTAIN 2.5% FOOTPATH

CONSTRUCTION ISSUE

REV.	DATE	AMENDMENT	DESIGN	DRAWN	CHECKED	APPROVED	SCALES	CLIENT	PROPERTY DESCRIPTION	PROJECT	PROJECT No.	DISCIPLINE	NUMBER	REV.
1	21.01.22	ISSUED FOR CONSTRUCTION	B.M.	J.J.	B.M.	B.M.	A1 1:100 0 2.5 5.0m A3 1:200	Central Coast 5 Pioneer Avenue, P.O. Box 3717, Tuggerah N.S.W. 2259 Phone: (02) 4305 4300 Fax: (02) 4305 4399 email: coast@adwjohnson.com.au www.adwjohnson.com.au ABN 62 129 445 398	LOT 100 D.P.1262209 & LOT 1 D.P.859537 EPPING ROAD & LYONPARK ROAD, MACQUARIE PARK SSDA 8903	PROPOSED SUBDIVISION	300001(2) -	ENG	244	1

DESIGN FILE S:\300001\DESIGN\12D\STAGE 2 CC\DESIGN FILE.project
ALL DIMENSIONS ARE IN METRES. DO NOT SCALE
Plotted By: Ben Myles Plot Date: 21/01/22 2:29:34PM Cad File: S:\300001\DRAWINGS\ENGINEERING\CIVIL\STAGE 2 CC ENG\300001(2)-ENG-244.DWG



INTERSECTION PLAN
SCALE 1:100

- LEGEND**
- LIMIT OF WORKS BOUNDARY
 - PROPOSED LOT BOUNDARY
 - EXISTING LOT BOUNDARY
 - MAJOR CONTOURS
 - MINOR CONTOURS
 - PROPOSED KERB
 - EXISTING KERB
 - EXTENTS OF BATTER
 - PROPOSED FOOTPATH
 - PROPOSED STORMWATER
 - EXISTING STORMWATER
 - PROPOSED SW PIT
 - PROPOSED LINTEL
 - PROPOSED HEADWALL
 - PIT LABEL

CONTOUR INTERVAL = 0.1m

GENERAL NOTES:—

- FOR TYPICAL ROAD CROSS SECTIONS, KERB PROFILES REFER SHEET 201 AND PAVEMENT DETAILS REFER TO SHEET 151.
- SETOUT INFORMATION IS TO BE VERIFIED BY THE CONTRACTOR AGAINST THE PLAN VIEW, LONGITUDINAL SECTIONS AND ELECTRONIC 12D DATA BEFORE BEING USED. IF THERE IS A DISCREPANCY THE SUPERINTENDENT IS TO BE NOTIFIED AND DIRECTION TO BE PROVIDED IN WRITING BEFORE PROCEEDING.
- REFER TO SHEET 901 FOR COMBINED SERVICES PLAN.
- REFER DRAWINGS PREPARED BY R.A.R.I. FOR SEWER AND WATER DETAILS.

CAUTION:

- IT IS THE RESPONSIBILITY OF THE CIVIL WORKS CONTRACTOR TO DETERMINE THE LOCATION & LEVEL OF EXISTING SERVICES USING NON DESTRUCTIVE METHODS PRIOR TO COMMENCING WORKS ON SITE.

KR03 — SETOUT TABLE							
PT	CHAINAGE	EASTING	NORTHING	BEARING	RAD/SPIRAL	A.LENGTH	DEFL.ANGLE
IP 1	0.000	325688.263	6260379.127	41°10'57.30"	R = -6.450	7.384	65°35'42.44"
P 2	3.692	325691.000	6260382.255				
CC	7.384	325689.282	6260386.040	335°35'14.85"	R = -20.450	8.720	24°25'47.55"
IP 3	11.744	325687.452	6260390.071				
P 4	16.104	325684.119	6260392.985	311°09'27.31"			

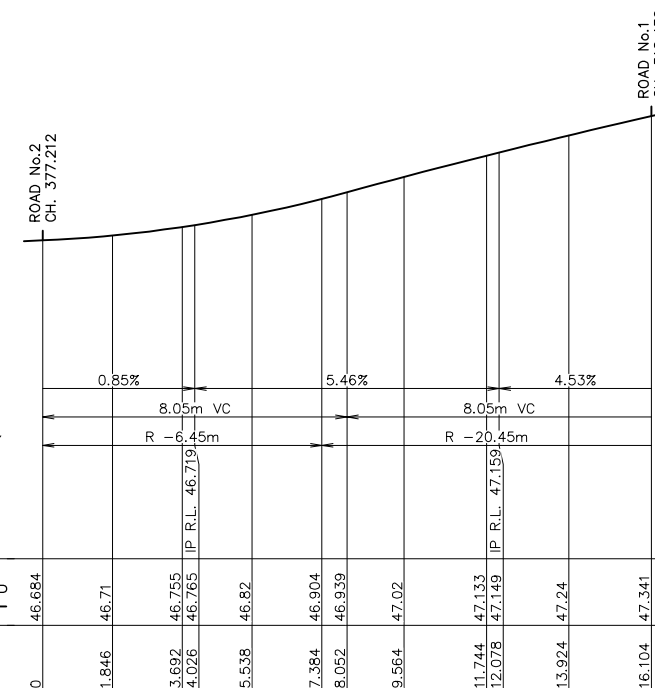
KR04 — SETOUT TABLE							
PT	CHAINAGE	EASTING	NORTHING	BEARING	RAD/SPIRAL	A.LENGTH	DEFL.ANGLE
IP 1	0.000	325702.719	6260376.712	311°10'55.80"	R = -5.450	7.547	79°20'48.12"
P 2	3.774	325699.317	6260379.688				
CC	7.547	325695.763	6260376.895	231°50'07.69"	R = -30.450	5.660	10°39'01.94"
IP 3	11.744	325689.427	6260371.915	231°50'07.69"			
P 4	21.267	325685.326	6260368.025	221°11'05.75"			

DESIGN GRADE
VERTICAL GEOMETRY
HORIZONTAL GEOMETRY

DATUM 45.0

DESIGN LEVEL LIP

CHAINAGE



LONGITUDINAL SECTION KR03

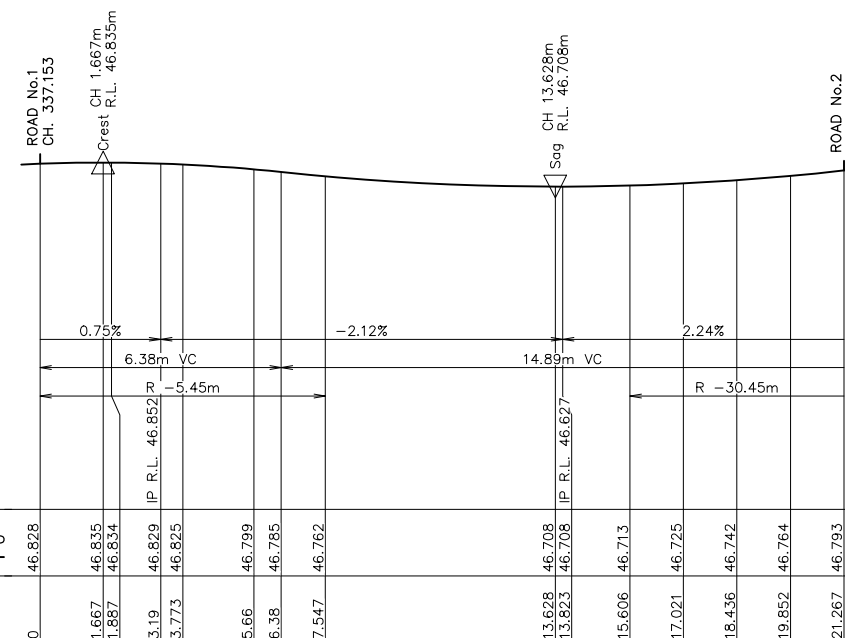
HORIZONTAL SCALE 1:100
VERTICAL SCALE 1:20

DESIGN GRADE
VERTICAL GEOMETRY
HORIZONTAL GEOMETRY

DATUM 45.0

DESIGN LEVEL LIP

CHAINAGE



LONGITUDINAL SECTION KR04

HORIZONTAL SCALE 1:100
VERTICAL SCALE 1:20



These plans are referred to in certificate no. **16746** approved by:

Eric Hausfeld
Registered Certifier

Registration No: BDC 2416

Categories:
Certifier - Subdivision
Certifier - Strata
Certifier - Stormwater
Certifier - Road & Drainage
Certifier - Hydraulic (stormwater)

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CONSTRUCTION ISSUE

REV.	DATE	AMENDMENT	DESIGN	DRAWN	CHECKED	APPROVED	SCALES
1	21.01.22	ISSUED FOR CONSTRUCTION	B.M.	J.J.	B.M.	B.M.	A1 1:100 A3 1:200 A1 1:20 A3 1:40



Central Coast
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email: coast@adwjohnson.com.au
www.adwjohnson.com.au
ABN 62 129 445 398

CLIENT



PROPERTY DESCRIPTION

LOT 100 D.P.1262209 & LOT 1 D.P.859537
EPPING ROAD & LYONPARK ROAD,
MACQUARIE PARK
SSDA 8903

SURVEYED

ADW Johnson

DATUM

GDA94 M.G.A. ZONE 56 A.H.D.

PROJECT

PROPOSED SUBDIVISION

PLAN TITLE

INTERSECTION DETAILS
KERB RETURNS KR03 & KR04

PROJECT No.

300001(2) - ENG

DISCIPLINE

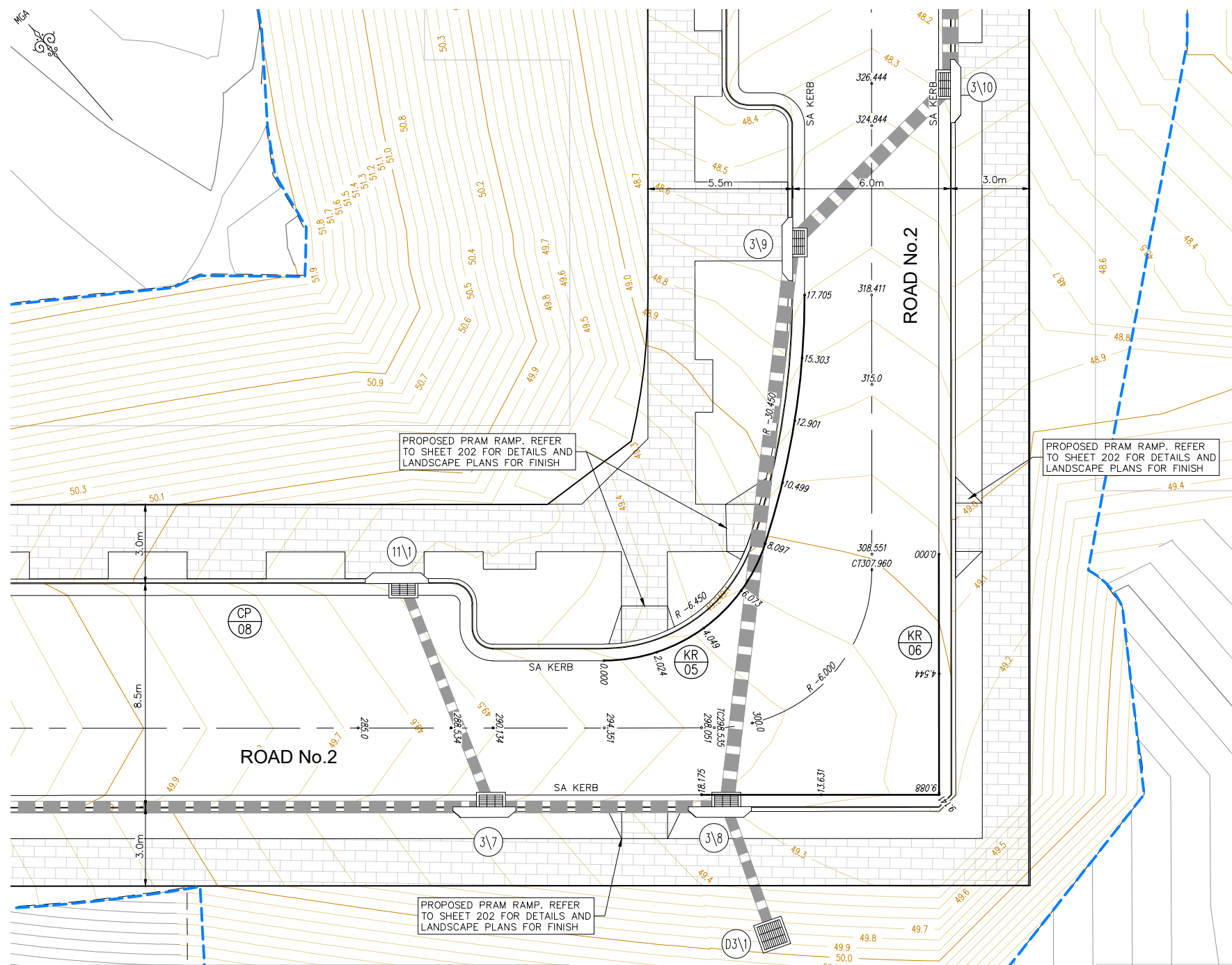
ENG

NUMBER

301

REV.

1



INTERSECTION PLAN

SCALE 1:100

LEGEND	
	LIMIT OF WORKS BOUNDARY
	PROPOSED LOT BOUNDARY
	EXISTING LOT BOUNDARY
	MAJOR CONTOURS
	MINOR CONTOURS
	PROPOSED KERB
	EXISTING KERB
	EXTENTS OF BATTER
	PROPOSED FOOTPATH
	PROPOSED STORMWATER
	EXISTING STORMWATER
	PROPOSED SW PIT
	PROPOSED LINTEL
	PROPOSED HEADWALL
	PIT LABEL

CONTOUR INTERVAL = 0.1m

GENERAL NOTES:—

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- REFER DRAWINGS PREPARED BY R.A.R.I. FOR SEWER AND WATER DETAILS.

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KR05 - SETOUT TABLE

PT	CHAINAGE	EASTING	NORTHING	BEARING	RAD/SPIRAL	A.LENGTH	DEFL.ANGLE
IP 1	0.000	325634.648	6260329.440	131°10'58.81"			
IP 2	4.048	325638.170	6260326.358		R = -6.450	8.097	71°55'31.14"
CC	8.097	325642.192	6260328.751	59°15'27.66"			
IP 3	12.901	325646.355	6260331.227		R = -30.450	9.608	18°04'44.13"
IP 4	17.705	325649.545	6260334.873	41°10'43.54"			

KR06 - SETOUT TABLE

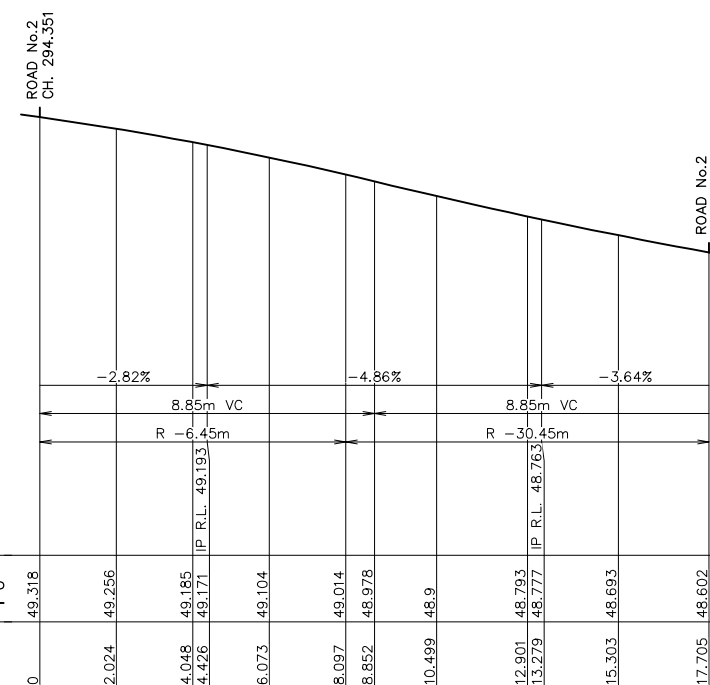
PT	CHAINAGE	EASTING	NORTHING	BEARING
IP 1	0.000	325646.890	6260324.094	221°10'59.00"
IP 2	9.141	325640.872	6260317.214	
IP 3	18.175	325634.072	6260323.163	311°10'57.73"

DESIGN GRADE
VERTICAL GEOMETRY
HORIZONTAL GEOMETRY

DATUM 47.0

DESIGN LEVEL LIP

CHAINAGE



LONGITUDINAL SECTION KR05

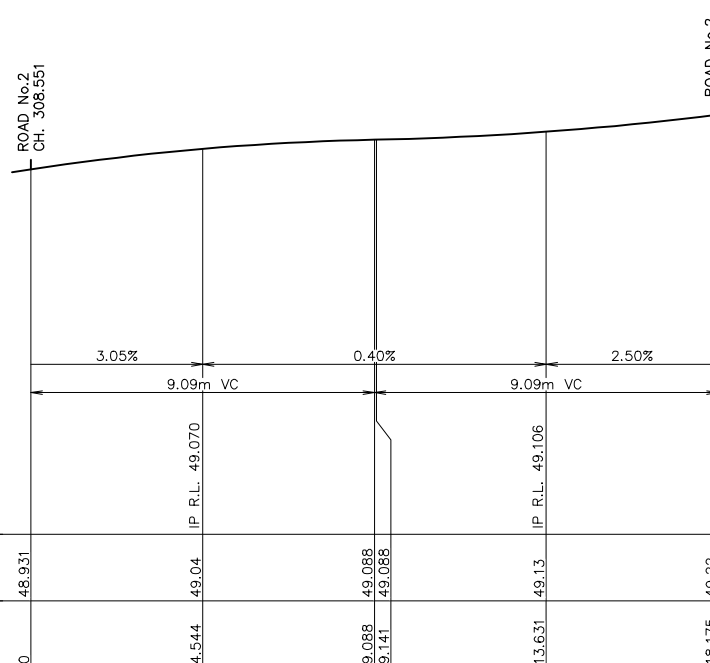
HORIZONTAL SCALE 1:100
VERTICAL SCALE 1:20

DESIGN GRADE
VERTICAL GEOMETRY
HORIZONTAL GEOMETRY

DATUM 47.0

DESIGN LEVEL LIP

CHAINAGE

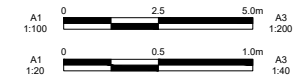


LONGITUDINAL SECTION KR06

HORIZONTAL SCALE 1:100
VERTICAL SCALE 1:20These plans are referred to in certificate no. **16746** approved by:**Eric Hausfeld**
Registered CertifierRegistration No: BDC 2416
Categories: Certifier - Subdivision
Certifier - Strata
Certifier - Stormwater
Certifier - Road & Drainage
Certifier - Hydraulic (stormwater)Land Development Certificates
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CONSTRUCTION ISSUE

REV.	DATE	AMENDMENT	DESIGN	DRAWN	CHECKED	APPROVED	SCALES
1	21.01.22	ISSUED FOR CONSTRUCTION	B.M.	J.J.	B.M.	B.M.	



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ABN 62 129 445 398

CLIENT



PROPERTY DESCRIPTION

LOT 100 D.P.1262209 & LOT 1 D.P.859537
EPPING ROAD & LYONPARK ROAD,
MACQUARIE PARK
SSDA 8903

SURVEYED
ADW Johnson

DATUM

GDA94 M.G.A. ZONE 56 A.H.D.

PROJECT

PROPOSED SUBDIVISION

PLAN TITLE

INTERSECTION DETAILS
KERB RETURNS KR05 & KR06

PROJECT No.

300001(2) - ENG

DISCIPLINE

ENG

NUMBER

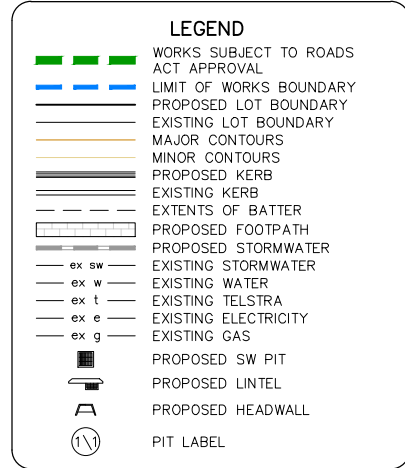
302

REV.

1

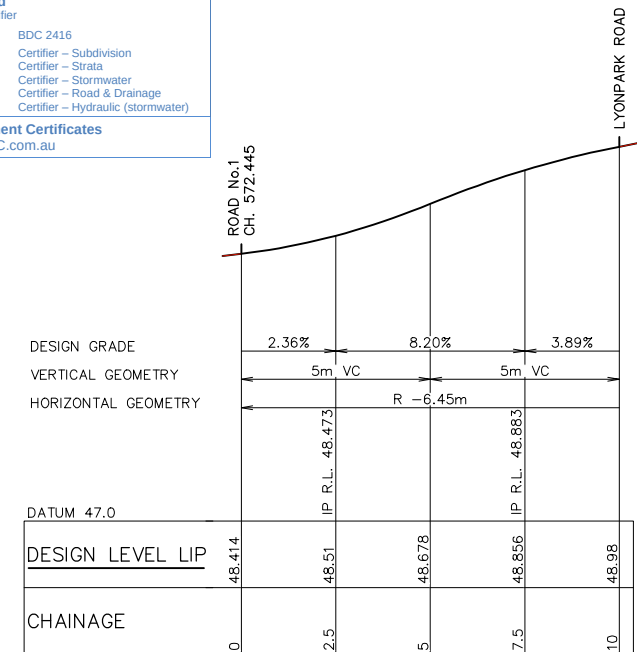


DIAL 1100
BEFORE YOU DIG



1. IT IS THE RESPONSIBILITY OF THE CIVIL WORKS CONTRACTOR TO DETERMINE THE LOCATION & LEVEL OF EXISTING SERVICES USING NON DESTRUCTIVE METHODS PRIOR TO COMMENCING WORKS ON SITE.

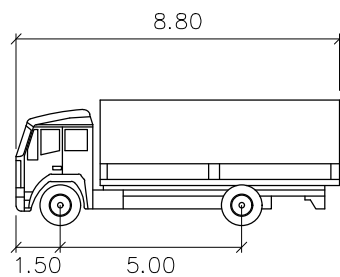
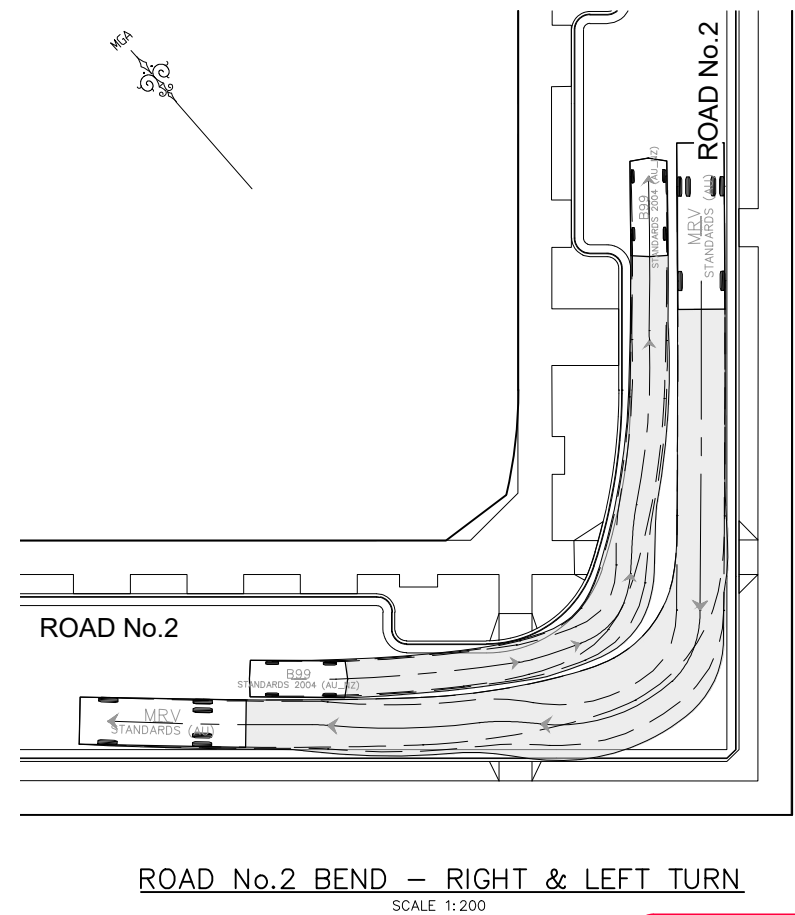
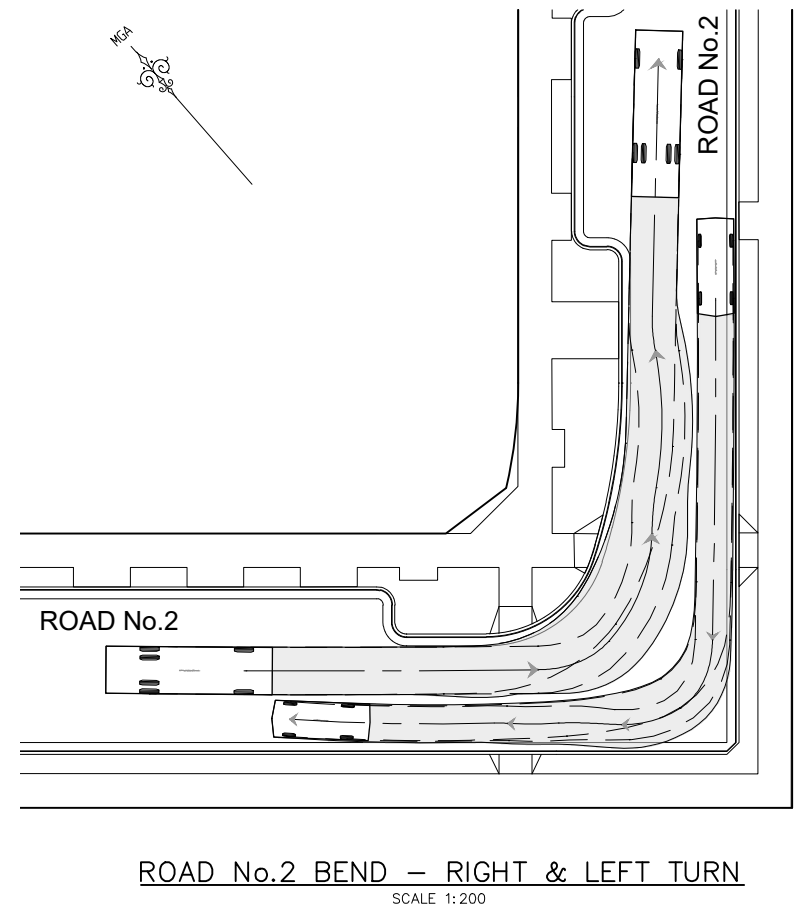
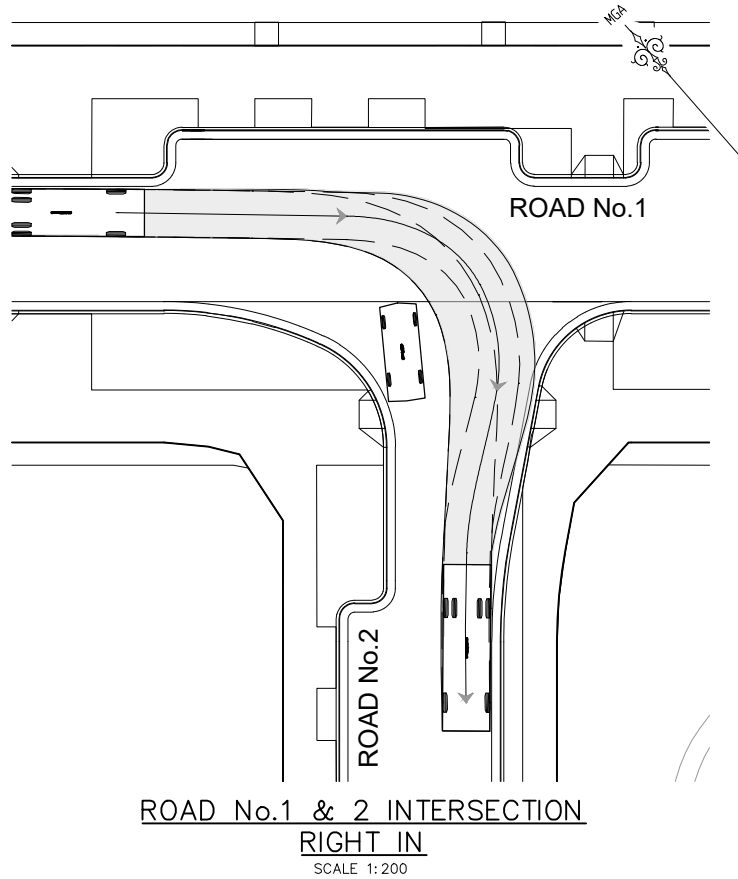
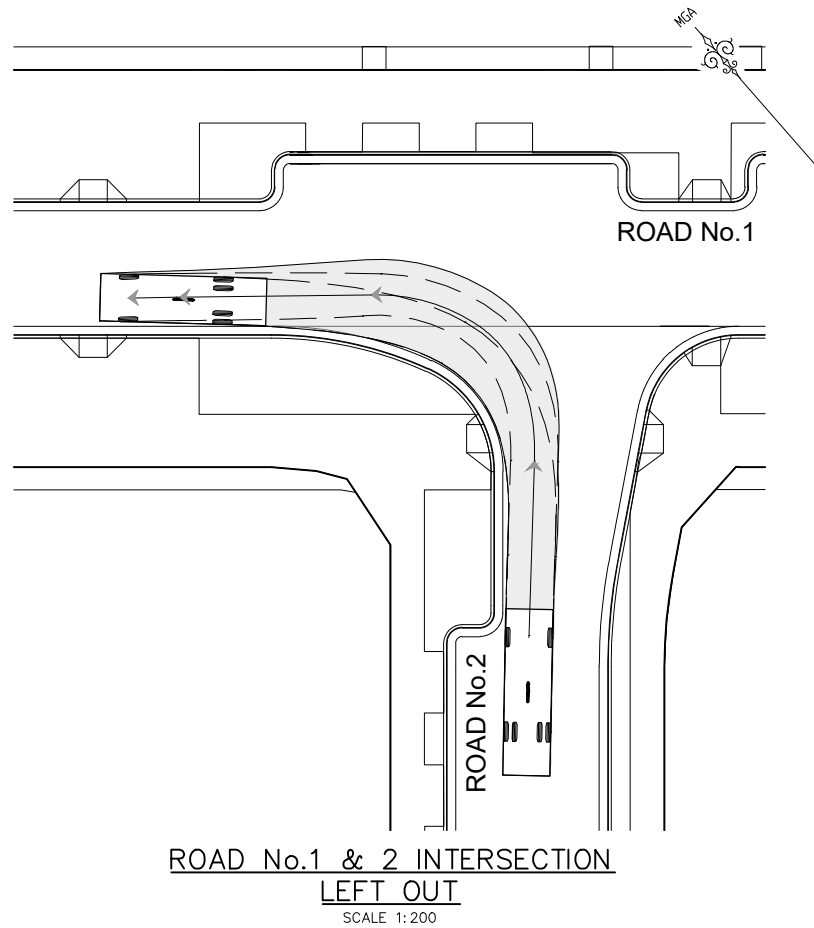
KR11 - SETOUT TABLE							
PT	CHAINAGE	EASTING	NORTHING	BEARING	RAD/SPIRAL	A.LENGTH	DEFL.ANGLE
IP 1	0.000	325894.689	6260242.270	130°44'56.06"			
IP 2	5.000	325899.477	6260238.145		R = -6.450	10.000	88°49'47.99"
IP 3	10.000	325903.699	6260242.847	41°55'08.07"			



HORIZONTAL SCALE 1:100
VERTICAL SCALE 1:20

1. CONTRACTOR IS TO CONFIRM LEVELS AND LOCATION OF EXISTING SERVICES PRIOR TO CONSTRUCTION

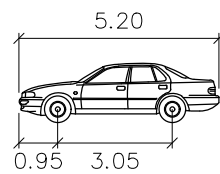
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MRV

meters

Width	: 2.50
Track	: 2.50
Lock to Lock Time	: 6.0
Steering Angle	: 34.0



ADWJ B99

meters

Width	: 1.94
Track	: 1.84
Lock to Lock Time	: 6.0
Steering Angle	: 37.2



These plans are referred to in
certificate no. **16746** approved by:

Eric Hausfeld
Registered Certifier

Registration No: BDC 2416

Categories:
Certifier - Subdivision
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Certifier - Stormwater
Certifier - Road & Drainage
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REV.	DATE	AMENDMENT	DESIGN	DRAWN	CHECKED	APPROVED	SCALES
1	21.01.22	ISSUED FOR CONSTRUCTION	B.M.	J.J.	B.M.	B.M.	A1 1:200 0 5.0 10.0m A3 1:400

DESIGN FILE S:\300001\DESIGN\12D\STAGE 2 CC\DESIGN FILE.project

ALL DIMENSIONS ARE IN METRES. DO NOT SCALE



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CLIENT



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MACQUARIE PARK
SSDA 8903

SURVEYED
ADW Johnson

DATUM

GDA94 M.G.A. ZONE 56 A.H.D.

PROJECT

PROPOSED SUBDIVISION

PLAN TITLE

MRV TURNING PATHS
DETAIL PLANS

PROJECT No.

DISCIPLINE

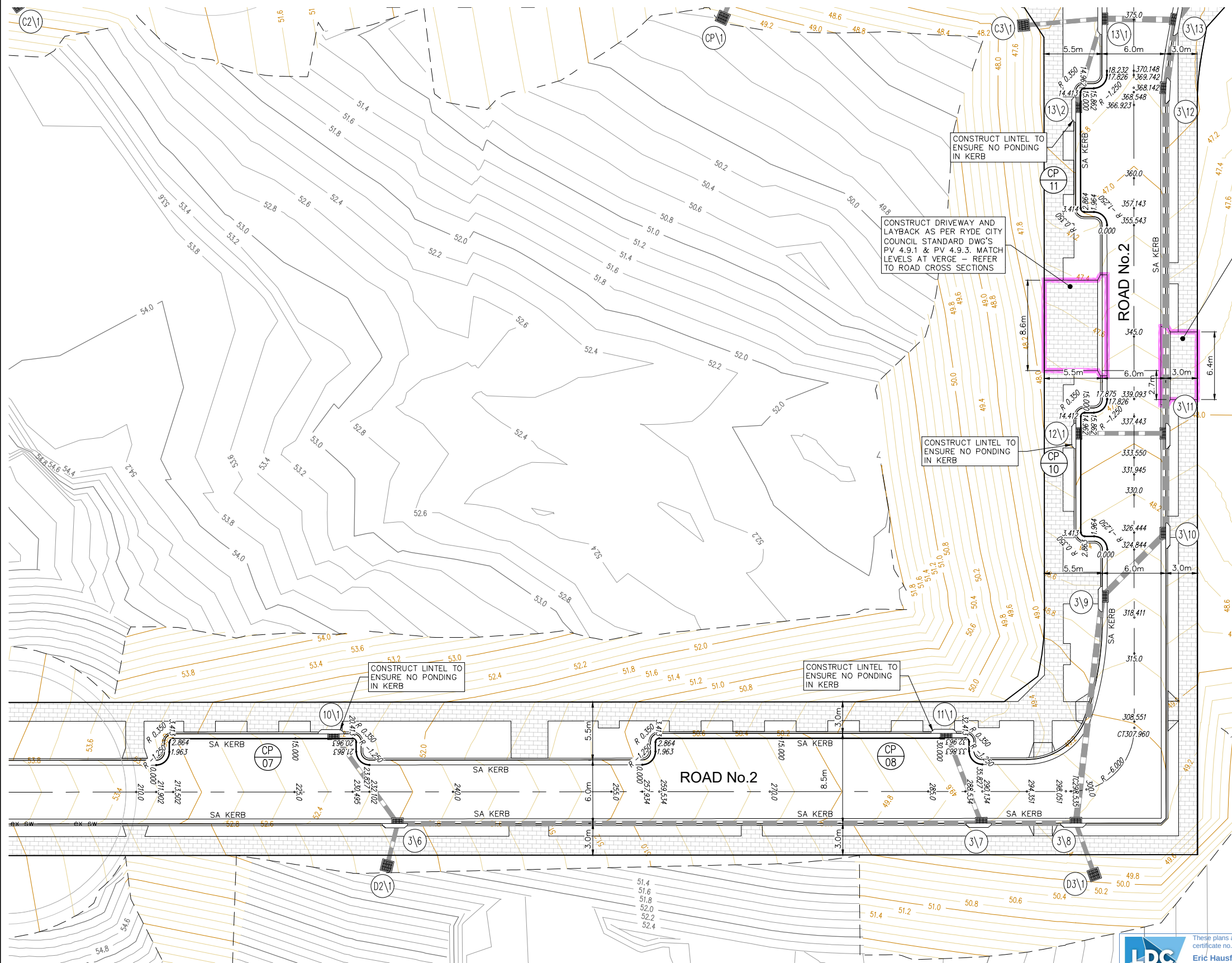
NUMBER

REV.

Plotted By: Ben Myles Plot Date: 21/01/22 2:29:58PM Cad File: S:\300001\DRAWINGS\ENGINEERING\CIVIL\STAGE 2 CC ENG\300001(2)-ENG-310.DWG



CONSTRUCTION ISSUE



CARPAK PLAN – CP07, CP08, CP10 & CP11
SCALE 1:200

LEGEND	
	PROPOSED LOT BOUNDARY
	EXISTING LOT BOUNDARY
	MAJOR CONTOURS
	MINOR CONTOURS
	PROPOSED KERB
	EXISTING KERB
	PROPOSED DRIVEWAY
	EXTENTS OF BATTER
	PROPOSED FOOTPATH
	PROPOSED STORMWATER
	EXISTING STORMWATER
	PROPOSED SW PIT
	PROPOSED LINTEL
	PROPOSED HEADWALL
	PIT LABEL

CONTOUR INTERVAL = 0.2m

CARPAK CP07 – SETOUT TABLE							
PT	CHAINAGE	EASTING	NORTHING	BEARING	RAD/SPIRAL	A.LENGTH	DEFL.ANGLE
IP 1	0.000	325572.594	6260383.727	131°10'57.97"	R = -1.250	1.963	89°59'55.10"
IP 2	0.982	325573.535	6260382.904				
CT	1.963	325574.358	6260383.845	41°11'02.86"			
TC	2.864	325574.950	6260384.522	41°11'02.86"	R = 0.350	0.550	89°59'55.10"
IP 3	3.138	325575.181	6260384.786				
CT	3.413	325575.444	6260384.555	131°10'57.97"			
TC	20.413	325588.239	6260373.361	131°10'57.97"	R = 0.350	0.550	90°00'07.05"
IP 4	20.688	325588.502	6260373.131				
CT	20.963	325588.272	6260372.867	221°11'05.02"			
TC	21.863	325587.679	6260372.190	221°11'05.02"	R = -1.250	1.964	90°00'07.05"
IP 5	22.845	325586.856	6260371.249				
IP 6	23.827	325587.797	6260370.426	131°10'57.97"			

CARPAK CP08 – SETOUT TABLE							
PT	CHAINAGE	EASTING	NORTHING	BEARING	RAD/SPIRAL	A.LENGTH	DEFL.ANGLE
IP 1	0.000	325607.238	6260353.417	131°10'57.97"	R = -1.250	1.963	89°59'55.10"
IP 2	0.982	325608.179	6260352.594				
CT	1.963	325609.002	6260353.535	41°11'02.86"			
TC	2.864	325609.594	6260354.212	41°11'02.86"	R = 0.350	0.550	89°59'55.10"
IP 3	3.138	325609.825	6260354.476				
CT	3.413	325610.088	6260354.245	131°10'57.97"			
TC	32.413	325635.914	6260335.150	131°10'57.97"	R = 0.350	0.550	89°59'49.81"
IP 4	32.688	325632.177	6260334.919				
CT	32.963	325631.947	6260334.656	221°10'47.77"			
TC	33.863	325631.354	6260333.978	221°10'47.77"	R = -1.250	1.963	89°59'49.81"
IP 5	34.845	325630.531	6260333.038				
IP 6	35.827	325631.472	6260332.215	131°10'57.97"			

CARPAK CP10 – SETOUT TABLE							
PT	CHAINAGE	EASTING	NORTHING	BEARING	RAD/SPIRAL	A.LENGTH	DEFL.ANGLE
IP 1	0.000	325653.781	6260339.715	41°10'58.51"	R = -1.250	1.964	90°00'10.74"
IP 2	0.982	325654.604	6260340.655				
CT	1.964	325655.663	6260341.478	311°10'47.77"			
TC	2.863	325652.986	6260342.071	311°10'47.77"	R = 0.350	0.550	90°00'10.73"
IP 3	3.138	325652.722	6260342.301				
CT	3.413	325652.953	6260342.555	41°10'58.50"			
TC	14.412	325660.195	6260350.843	41°10'58.50"	R = 0.350	0.550	90°00'21.61"
IP 4	14.687	325660.428	6260351.106				
CT	14.962	325660.689	6260350.876	131°11'20.11"			
TC	15.862	325661.366	6260350.283	131°11'20.11"	R = -1.250	1.964	90°00'21.60"
IP 5	16.844	325662.307	6260349.460				
CT	17.826	325663.130	6260350.401	41°10'58.51"			
IP 6	17.826	325663.163	6260350.438	41°10'58.51"			

CARPAK CP11 – SETOUT TABLE							
PT	CHAINAGE	EASTING	NORTHING	BEARING	RAD/SPIRAL	A.LENGTH	DEFL.ANGLE
IP 1	0.000	325673.995	6260362.819	41°10'56.86"	R = -1.250	1.964	90°00'09.07"
IP 2	0.000	325673.995	6260362.819				
CT	0.982	325674.818	6260363.760	311°10'47.77"			
TC	1.964	325673.877	6260364.583	311°10'47.77"	R = 0.350	0.550	90°00'10.74"
IP 3	2.864	325673.200	6260365.176	311°10'47.77"			
CT	3.139	325672.937	6260365.406				
TC	3.414	325673.167	6260365.669	41°10'58.51"	R = 0.350	0.550	90°00'21.60"
IP 4	14.413	325680.410	6260373.947	41°10'58.51"			
CT	14.688	325680.640	6260374.211				
TC	14.962	325680.903	6260373.980	131°11'20.11"	R = -1.250	1.964	90°00'21.60"
IP 5	15.862	325681.581	6260373.388	131°11'20.11"			
IP 6	16.844	325682.521	6260372.564				
CT	17.826	325683.345	6260373.505	41°10'58.51"			
IP 7	18.232	325683.612	6260373.811	41°10'58.51"			



These plans are referred to in certificate no. **16746** approved by:

Eric Hausfeld
Registered Certifier

Registration No: BDC 2416
Categories: Certifier – Subdivision
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CONSTRUCTION ISSUE

REV.	DATE	AMENDMENT	DESIGN	DRAWN	CHECKED	APPROVED	SCALES
1	21.01.22	ISSUED FOR CONSTRUCTION	B.M.	J.J.	B.M.	B.M.	A1 1:200 0 5.0 10.0m A3 1:400

adw Johnson

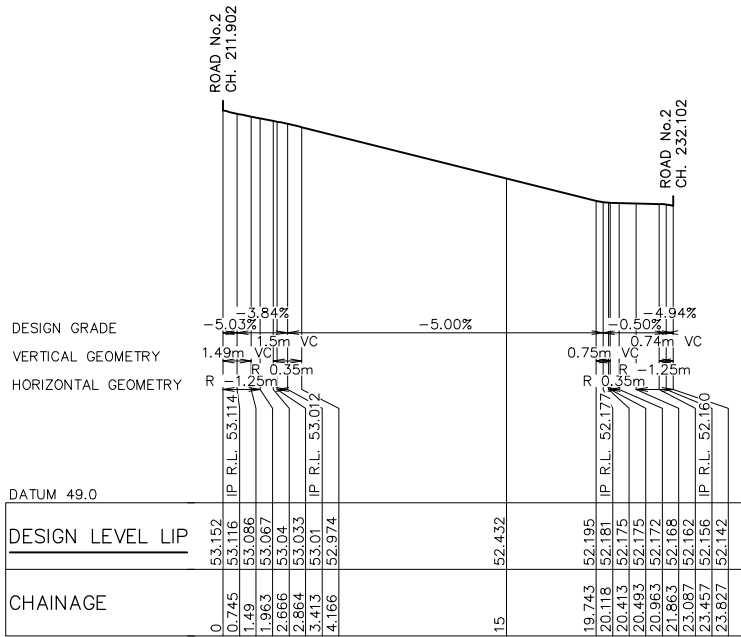
Central Coast
5 Pioneer Avenue,
P.O. Box 3717,
Tuggerah N.S.W. 2259
Phone: (02) 4305 4300
Fax: (02) 4305 4399
email: coast@adwjohnson.com.au
www.adwjohnson.com.au
ABN 62 129 445 398

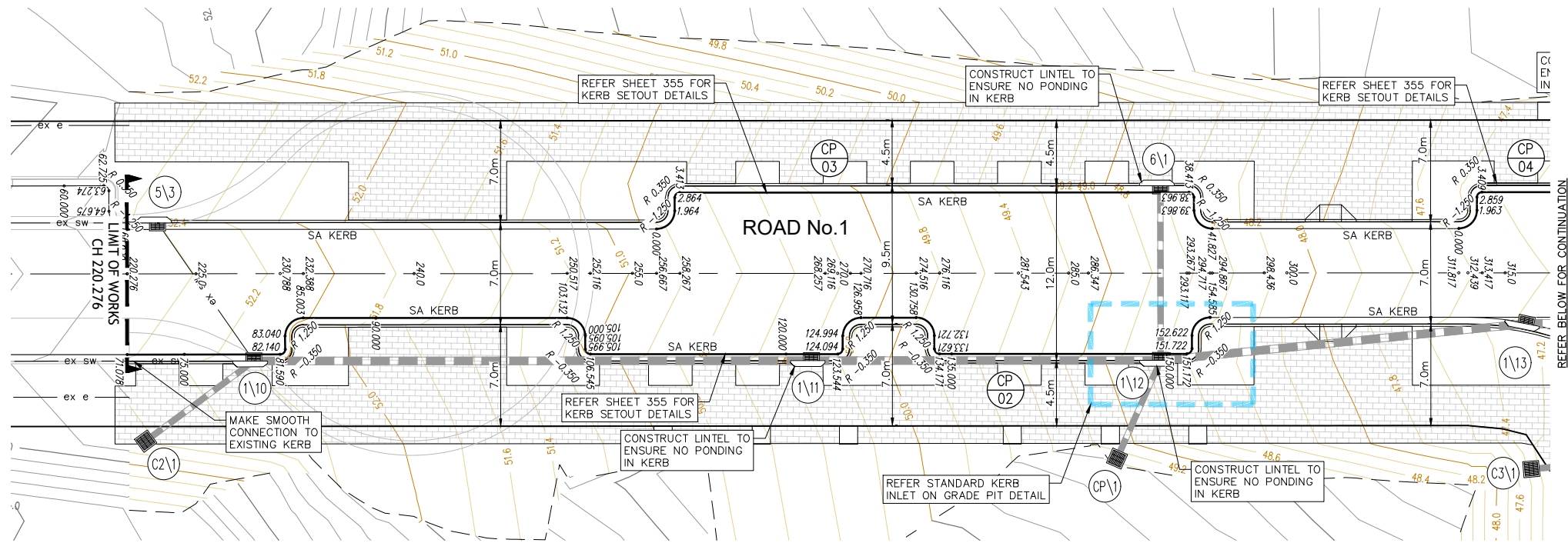


PROPERTY DESCRIPTION
LOT 100 D.P.1262209 & LOT 1 D.P.859537
EPPING ROAD & LYONPARK ROAD,
MACQUARIE PARK
SSDA 8903

SURVEYED ADW Johnson DATUM GDA94 M.G.A. ZONE 56 A.H.D.

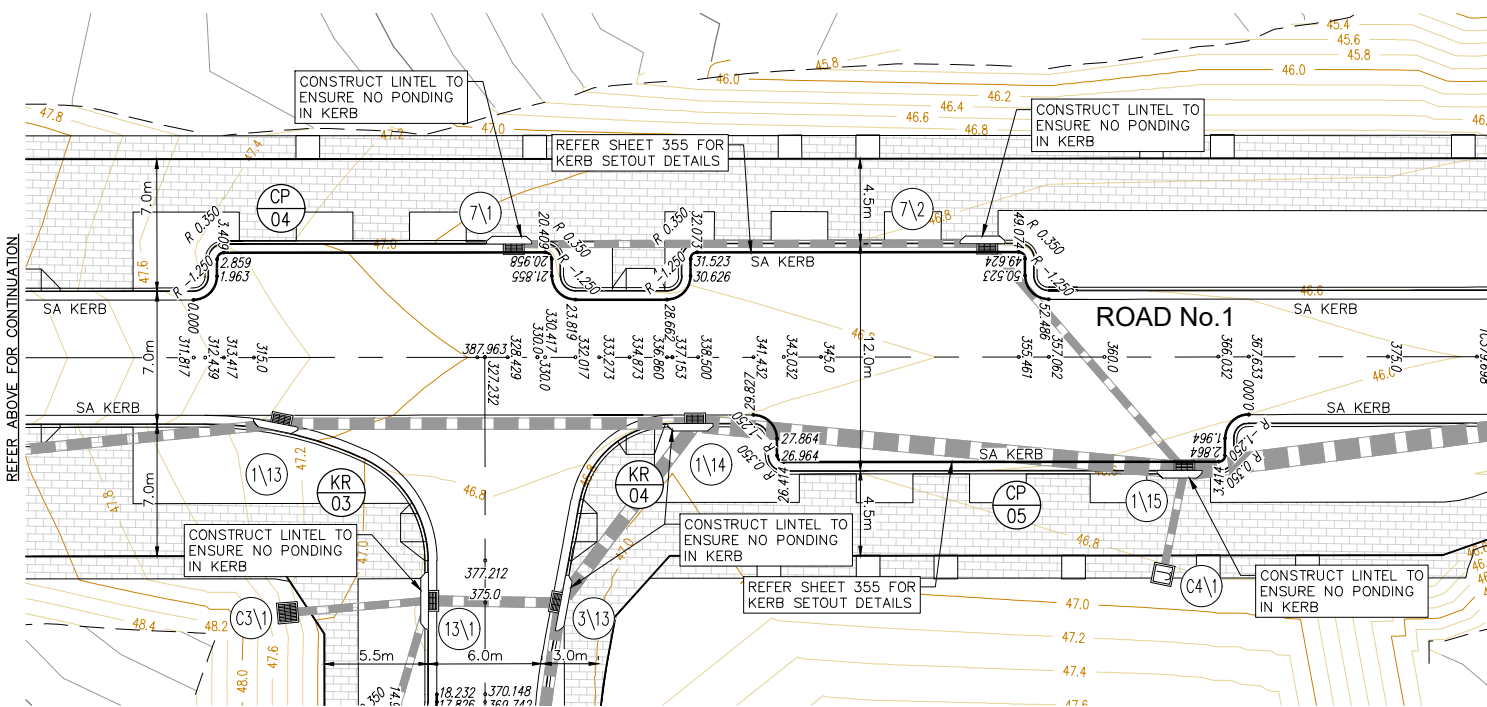
PROJECT		PROPOSED SUBDIVISION	
PLAN TITLE		CARPAK DETAIL PLAN CP07, CP08, CP10 & CP11	
PROJECT No.	DISCIPLINE	NUMBER	REV.
300001(2) -	ENG	351	1





CARPARK PLAN - CP02, CP03 & CP04

SCALE 1:200



CARPARK PLAN - CP04 & CP05

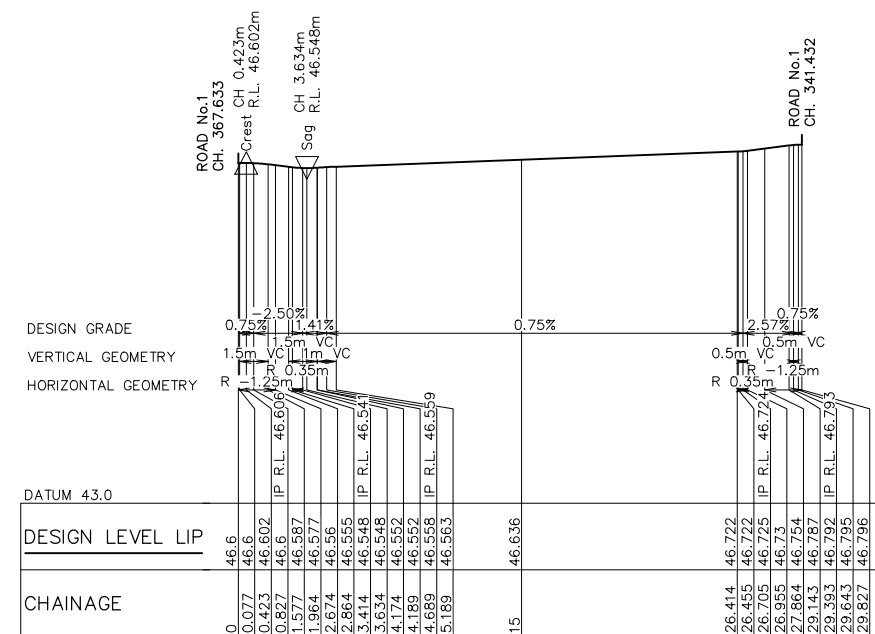
SCALE 1:200



These plans are referred to in certificate no. 16746 approved by:

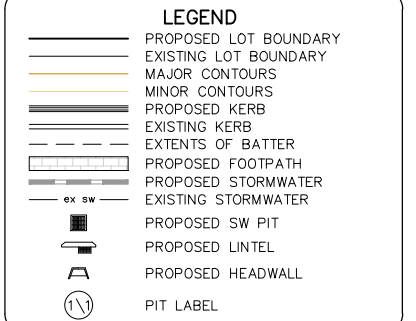
Eric Hausfeld
Registered Certifier
Registration No: BDC 2416
Categories:
Certifier - Subdivision
Certifier - Strata
Certifier - Stormwater
Certifier - Road & Drainage
Certifier - Hydraulic (stormwater)

Land Development Certificates
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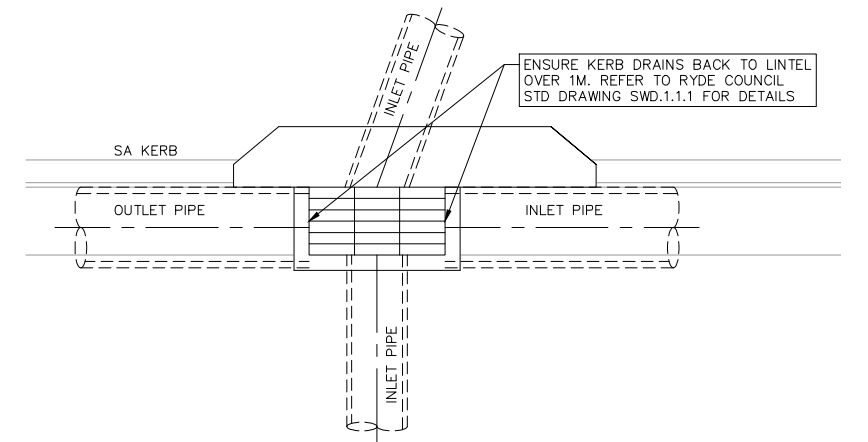


LONGITUDINAL SECTION ENG CP05

HORIZONTAL SCALE 1:200
VERTICAL SCALE 1:40



CONTOUR INTERVAL = 0.2m



STANDARD KERB INLET ON GRADE PIT DETAIL

SCALE 1:25

CAUTION:

- IT IS THE RESPONSIBILITY OF THE CIVIL WORKS CONTRACTOR TO DETERMINE THE LOCATION & LEVEL OF EXISTING SERVICES USING NON DESTRUCTIVE METHODS PRIOR TO COMMENCING WORKS ON SITE.



DIAL 1100
BEFORE YOU DIG

CONSTRUCTION ISSUE

REV.	DATE	AMENDMENT	DESIGN	DRAWN	CHECKED	APPROVED	SCALES
1	21.01.22	ISSUED FOR CONSTRUCTION	B.M.	J.J.	B.M.	B.M.	A1 1:200 0 5.0 10.0m A3 1:400 A1 1:40 0 1.0 2.0m A3 1:80 A1 1:25 0 0.25 0.50 0.75 1.00 1.25m A3 1:50

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ALL DIMENSIONS ARE IN METRES. DO NOT SCALE

Plotted By: Ben Myles Plot Date: 21/01/22 2:30:16PM Cad File: S:\300001\DRAWINGS\ENGINEERING\CIVIL\STAGE 2 CC ENG\300001(2)-ENG-353.DWG



Central Coast
5 Pioneer Avenue,
P.O. Box 3717,
Tuggerah N.S.W. 2259
Phone: (02) 4305 4300
Fax: (02) 4305 4399
email: coast@adwjohnson.com.au
www.adwjohnson.com.au
ABN 62 129 445 398

CLIENT



PROPERTY DESCRIPTION

LOT 100 D.P.1262209 & LOT 1 D.P.859537
EPPING ROAD & LYONPARK ROAD,
MACQUARIE PARK
SSDA 8903

SURVEYED
ADW Johnson

DATUM

GDA94 M.G.A. ZONE 56 A.H.D.

PROJECT

PROPOSED SUBDIVISION

PLAN TITLE

CARPARK DETAIL PLAN
CP02, CP03, CP04 & CP05

PROJECT No.

300001(2) - ENG

DISCIPLINE

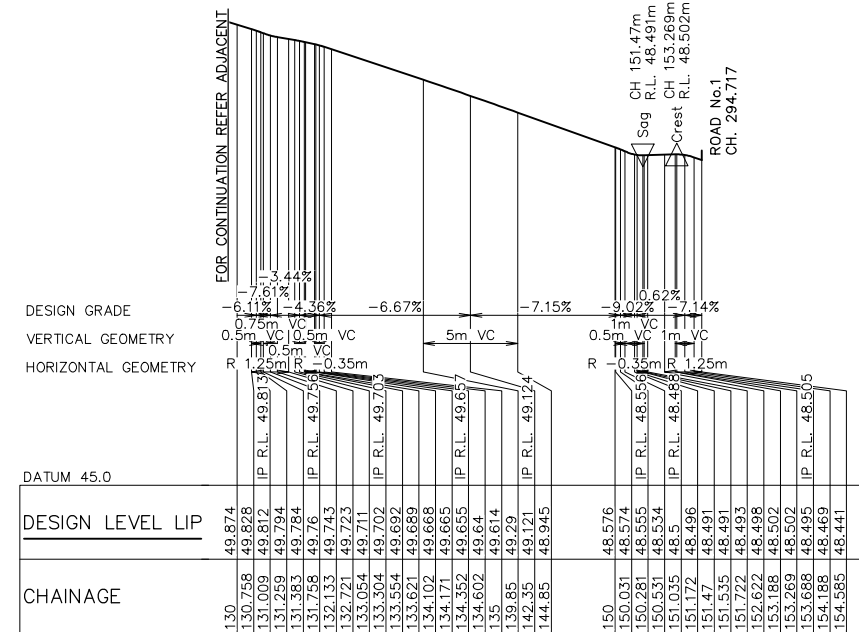
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NUMBER

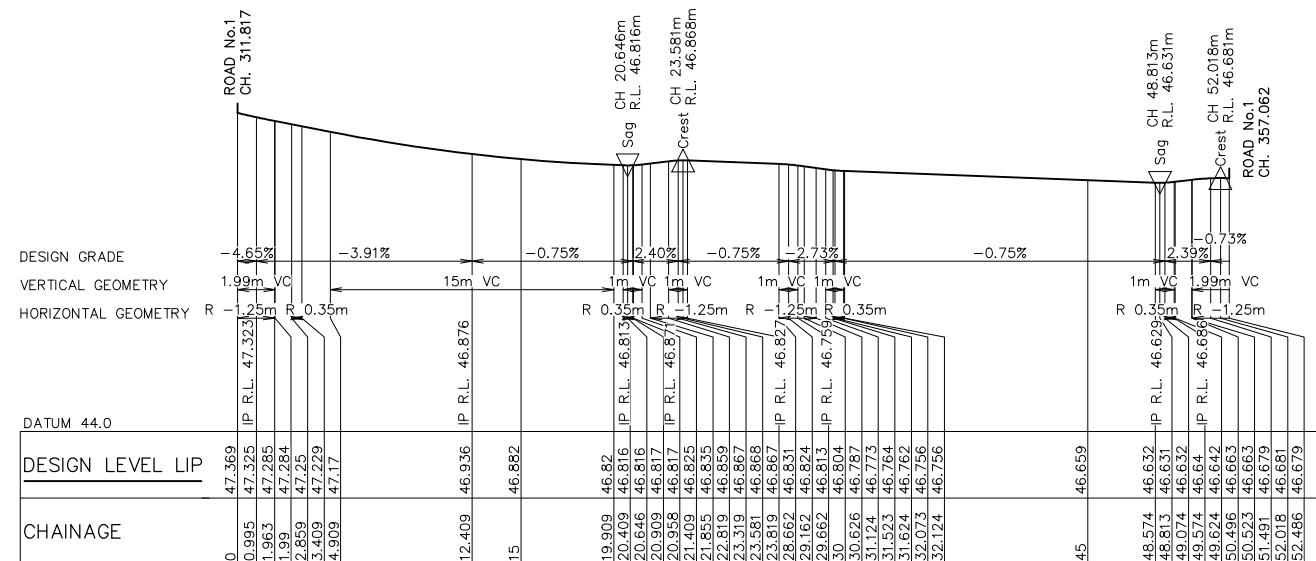
353

REV.

1



LONGITUDINAL SECTION ENG CP02 (CONTINUED)



LONGITUDINAL SECTION ENG CP04



REV.	DATE	AMENDMENT	DESIGN	DRAWN	CHECKED	APPROVED	0 5.0 10.0m A1 1:200 0 1.0 2.0m A1 1:40  Central Coast 5 Pioneer Avenue, P.O. Box 3717, Tuggerah N.S.W. 2259 Phone: (02) 4305 4300 Fax: (02) 4305 4399 email: coast@adwjohnson.com.au www.adwjohnson.com.au ABN 62 129 445 398	CLIENT		PROPERTY DESCRIPTION LOT 100 D.P.1262209 & LOT 1 D.P.859537 EPPING ROAD & LYONPARK ROAD, MACQUARIE PARK SSDA 8903	PROJECT PROPOSED SUBDIVISION	PLAN TITLE CARPARK LONGITUDINAL SECTIONS CP02, CP03 & CP04	SURVEYED ADW Johnson	DATUM GDA94 M.G.A. ZONE 56 A.H.D.	PROJECT No. 300001(2) -	DISCIPLINE ENG -	NUMBER 354	REV. 1	
1	21.01.22	ISSUED FOR CONSTRUCTION	B.M.	J.J.	B.M.	B.M.	0 5.0 10.0m A1 1:200 0 1.0 2.0m A1 1:40	 Central Coast 5 Pioneer Avenue, P.O. Box 3717, Tuggerah N.S.W. 2259 Phone: (02) 4305 4300 Fax: (02) 4305 4399 email: coast@adwjohnson.com.au www.adwjohnson.com.au ABN 62 129 445 398	CLIENT		PROPERTY DESCRIPTION LOT 100 D.P.1262209 & LOT 1 D.P.859537 EPPING ROAD & LYONPARK ROAD, MACQUARIE PARK SSDA 8903	PROJECT PROPOSED SUBDIVISION	PLAN TITLE CARPARK LONGITUDINAL SECTIONS CP02, CP03 & CP04	SURVEYED ADW Johnson	DATUM GDA94 M.G.A. ZONE 56 A.H.D.	PROJECT No. 300001(2) -	DISCIPLINE ENG -	NUMBER 354	REV. 1
DESIGN FILE S:\300001\DESIGN\12D\STAGE 2 CC\DESIGN FILE.project							ALL DIMENSIONS ARE IN METRES. DO NOT SCALE												

CARPARK CP02 – SETOUT TABLE							
PT	CHAINAGE	EASTING	NORTHING	BEARING	RAD/SPIRAL	A.LENGTH	DEFL.ANGLE
IP 1	0.000	325568.083	6260494.502	131°10'56.81"			
IP 2	0.000	325568.084	6260494.502				
IP 3	0.981	325569.023	6260493.680		R = 1.250	1.962	89°55'34.71"
CT	1.962	325568.202	6260492.739	221°06'31.58"			
TC	2.864	325567.609	6260492.060	221°06'31.58"			
IP 4	3.139	325567.379	6260491.796		R = -0.350	0.549	89°55'36.38"
CT	3.414	325567.643	6260491.566	131°10'55.20"			
TC	20.411	325580.435	6260480.374	131°10'55.20"			
IP 5	20.685	325580.698	6260480.144		R = -0.350	0.550	89°59'43.67"
CT	20.960	325580.929	6260480.407	41°11'11.52"			
TC	21.860	325581.521	6260481.085	41°11'11.52"			
IP 6	22.842	325582.344	6260482.025		R = 1.250	1.963	89°59'43.78"
CT	23.824	325583.285	6260481.202	131°10'55.31"			
TC	27.624	325586.145	6260478.700	131°10'55.31"			
IP 7	28.606	325587.086	6260477.877		R = 1.250	1.964	90°00'16.22"
CT	29.588	325586.263	6260476.936	221°11'11.52"			
TC	30.488	325585.670	6260476.259	221°11'11.52"			
IP 8	30.762	325585.440	6260475.995		R = -0.350	0.550	90°00'16.22"
CT	31.037	325585.703	6260475.765	131°10'55.31"			
TC	48.050	325598.508	6260464.563	131°10'55.31"			
IP 9	48.325	325598.771	6260464.332		R = -0.350	0.550	89°59'43.78"
CT	48.600	325599.001	6260464.596	41°11'11.52"			
TC	49.500	325599.594	6260465.273	41°11'11.52"			
IP 10	50.482	325600.417	6260466.214		R = 1.250	1.963	89°59'43.78"
CT	51.464	325601.358	6260465.391	131°10'55.31"			
TC	55.164	325604.143	6260462.955	131°10'55.31"			
IP 11	56.145	325605.084	6260462.131		R = 1.250	1.964	90°00'16.22"
CT	57.127	325604.260	6260461.191	221°11'11.52"			
TC	58.027	325603.668	6260460.513	221°11'11.52"			
IP 12	58.302	325603.437	6260460.250		R = -0.350	0.550	90°00'16.22"
CT	58.577	325603.701	6260460.019	131°10'55.25"			
TC	81.590	325621.021	6260444.867	131°10'55.25"			
IP 13	81.865	325621.284	6260444.636		R = -0.350	0.550	89°59'59.94"
CT	82.140	325621.515	6260444.899	41°10'55.31"			
TC	83.040	325622.107	6260445.577	41°10'55.31"			
IP 14	84.021	325622.930	6260446.518		R = 1.250	1.963	90°00'00.00"
CT	85.003	325623.871	6260445.695	131°10'55.31"			
TC	103.132	325637.515	6260433.758	131°10'55.31"			
IP 15	104.114	325638.456	6260432.935		R = 1.250	1.964	90°00'16.22"
CT	105.095	325637.633	6260431.994	221°11'11.52"			
TC	105.995	325637.040	6260431.316	221°11'11.52"			
IP 16	106.270	325636.810	6260431.053		R = -0.350	0.550	90°00'16.22"
CT	106.545	325637.073	6260430.823	131°10'55.31"			
TC	123.544	325649.867	6260419.629	131°10'55.31"			
IP 17	123.819	325650.131	6260419.399		R = -0.350	0.550	89°59'43.79"
CT	124.094	325650.361	6260419.662	41°11'11.52"			
TC	124.994	325650.954	6260420.340	41°11'11.52"			
IP 18	125.976	325651.777	6260421.280		R = 1.250	1.963	89°59'43.78"
CT	126.958	325652.718	6260420.457	131°10'55.31"			
TC	130.758	325655.578	6260417.955	131°10'55.31"			
IP 19	131.740	325656.518	6260417.132		R = 1.250	1.964	90°00'16.22"
CT	132.721	325655.695	6260416.191	221°11'11.52"			
TC	133.621	325655.103	6260415.514	221°11'11.52"			
IP 20	133.896	325654.872	6260415.251		R = -0.350	0.550	90°00'16.22"
CT	134.171	325655.136	6260415.020	131°10'55.31"			
TC	151.172	325667.931	6260403.826	131°10'55.31"			
IP 21	151.447	325668.194	6260403.595		R = -0.350	0.550	89°59'43.78"
CT	151.722	325668.425	6260403.859	41°11'11.52"			
TC	152.622	325669.017	6260404.536	41°11'11.52"			
IP 22	153.603	325669.840	6260405.477		R = 1.250	1.963	89°59'43.78"
IP 23	154.585	325670.781	6260404.654				
IP 24	154.585	325670.781	6260404.654	131°10'55.03"			

CARPARK CP03 – SETOUT TABLE							
PT	CHAINAGE	EASTING	NORTHING	BEARING	RAD/SPIRAL	A.LENGTH	DEFL.ANGLE
IP 1	0.000	325646.160	6260434.299	131°10'55.36"			
IP 2	0.982	325647.101	6260433.476		R = -1.250	1.964	90°00'10.46"
CT	1.964	325647.924	6260434.417	41°10'44.90"			
TC	2.864	325648.517	6260435.094	41°10'44.90"			
IP 3	3.138	325648.747	6260435.357		R = 0.350	0.550	90°00'10.35"
CT	3.413	325649.011	6260435.127	131°10'55.25"			
TC	38.413	325675.353	6260412.081	131°10'55.25"			
IP 4	38.688	325675.616	6260411.851		R = 0.350	0.550	89°59'55.40"
CT	38.963	325675.386	6260411.587	221°10'50.65"			
TC	39.863	325674.793	6260410.910	221°10'50.64"			
IP 5	40.845	325673.970	6260409.969		R = -1.250	1.963	89°59'42.87"
IP 6	41.827	325674.911	6260409.146	131°11'07.78"			

CARPARK CP04 – SETOUT TABLE							
PT	CHAINAGE	EASTING	NORTHING	BEARING	RAD/SPIRAL	A.LENGTH	DEFL.ANGLE
IP 1	0.000	325684.968	6260400.347	131°10'58.44"			
IP 2	0.000	325684.968	6260400.347				
IP 3	0.982	325685.908	6260399.524		R = -1.250	1.963	89°59'58.31"
CT	1.963	325686.731	6260400.465	41°10'57.00"			
TC	2.859	325687.321	6260401.139	41°10'57.00"			
IP 4	3.134	325687.552	6260401.402		R = 0.350	0.550	89°59'44.72"
CT	3.409	325687.815	6260401.172	131°10'41.72"			
TC	20.409	325700.610	6260389.979	131°10'41.72"			
IP 5	20.684	325700.874	6260389.749		R = 0.350	0.550	90°00'12.90"
CT	20.958	325700.643	6260389.485	221°10'54.62"			
TC	21.855	325700.053	6260388.810	221°10'54.62"			
IP 6	22.837	325699.230	6260387.870		R = -1.250	1.963	89°59'59.32"
CT	23.818	325700.171	6260387.047	131°10'55.31"			
TC	28.662	325703.816	6260383.857	131°10'55.31"			
IP 7	29.644	325704.757	6260383.034		R = -1.250	1.964	90°01'13.45"
CT	30.626	325705.580	6260383.975	41°09'41.85"			
TC	31.523	325706.170	6260384.650	41°09'41.85"			
IP 8	31.798	325706.401	6260384.914		R = 0.350	0.550	90°00'59.87"
CT	32.072	325706.664	6260384.683	131°10'41.72"			
TC	49.074	325719.461	6260373.489	131°10'41.72"			
IP 9	49.349	325719.724	6260373.259		R = 0.350	0.550	90°00'12.90"
CT	49.624	325719.494	6260372.996	221°10'54.62"			
TC	50.522	325718.902	6260372.320	221°10'54.62"			
IP 10	51.504	325718.079	6260371.379		R = -1.250	1.963	89°59'59.31"
IP 11	52.485	325719.020	6260370.556				
IP 12	52.485	325719.020	6260370.556	131°10'47.07"			

CARPARK CP05 – SETOUT TABLE							
PT	CHAINAGE	EASTING	NORTHING	BEARING	RAD/SPIRAL	A.LENGTH	DEFL.ANGLE
IP 1	0.000	325725.659	6260356.642	311°10'55.25"			
IP 2	0.000	325725.659	6260356.642				
IP 3	0.982	325724.718	6260357.465		R = -1.250	1.964	90°00'04.33"
CT	1.964	325723.895	6260356.525	221°10'50.97"			
TC	2.864	325723.302	6260355.847	221°10'50.97"			
IP 4	3.139	325723.072	6260355.584		R = 0.350	0.550	90°00'04.33"
CT	3.414	325722.809	6260355.814	311°10'55.31"			
TC	26.414	325705.498	6260370.959	311°10'55.31"			
IP 5	26.689	325705.235	6260371.189		R = 0.350	0.550	90°00'00.00"
CT	26.964	325705.465	6260371.453	41°10'55.31"			
TC	27.864	325706.058	6260372.130	41°10'55.31"			
IP 6	28.845	325706.881	6260373.071		R = -1.250	1.963	90°00'00.00"
IP 7	29.827	325705.940	6260373.894	311°10'55.31"			



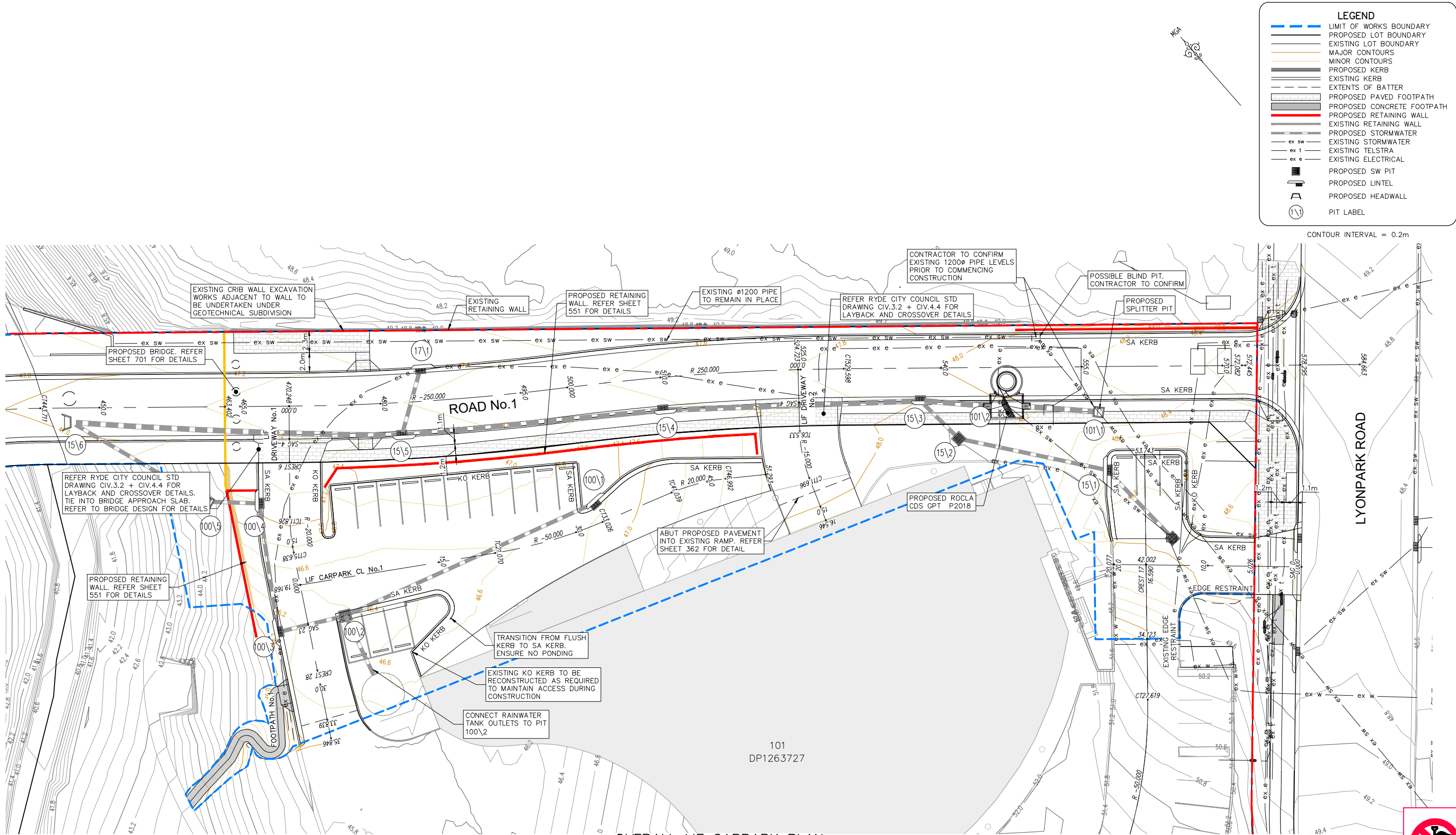
These plans are referred to in certificate no. **16746** approved by:
Eric Hausfeld
Registered Certifier
Registration No: BDC 2416
Categories: Certifier – Subdivision
Certifier – Strata
Certifier – Stormwater
Certifier – Road & Drainage
Certifier – Hydraulic (stormwater)

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CONSTRUCTION ISSUE

REV.		DATE	AMENDMENT	DESIGN	DRAWN	CHECKED	APPROVED	SCALES		Central Coast 5 Pioneer Avenue, P.O. Box 3717, Tuggerah N.S.W. 2259 Phone: (02) 4305 4300 Fax: (02) 4305 4399 email: coast@adwjohnson.com.au www.adwjohnson.com.au ABN 62 129 445 398	CLIENT 	PROPERTY DESCRIPTION LOT 100 D.P.1262209 & LOT 1 D.P.859537 EPPING ROAD & LYONPARK ROAD, MACQUARIE PARK SSDA 8903		PROJECT PROPOSED SUBDIVISION							
PLAN TITLE		CARPARK SETOUT TABLES CP02, CP03, CP04 & CP05																			
DESIGN FILE S:\300001\DESIGN\12D\STAGE 2 CC\DESIGN FILE.project												ALL DIMENSIONS ARE IN METRES. DO NOT SCALE		SURVEYED ADW Johnson		DATUM GDA94 M.G.A. ZONE 56 A.H.D.		PROJECT No. 300001(2) –		DISCIPLINE ENG –	



OVERALL LIF CARPARK PLAN
SCALE 1:200

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These plans are referred to in certificate no. **16746** approved by:
Eric Hausfeld
Registered Certifier
Registration No: BDC 2416
Categories: Certifier - Subdivision
Certifier - Strata
Certifier - Stormwater
Certifier - Road & Drainage
Certifier - Hydraulic (stormwater)

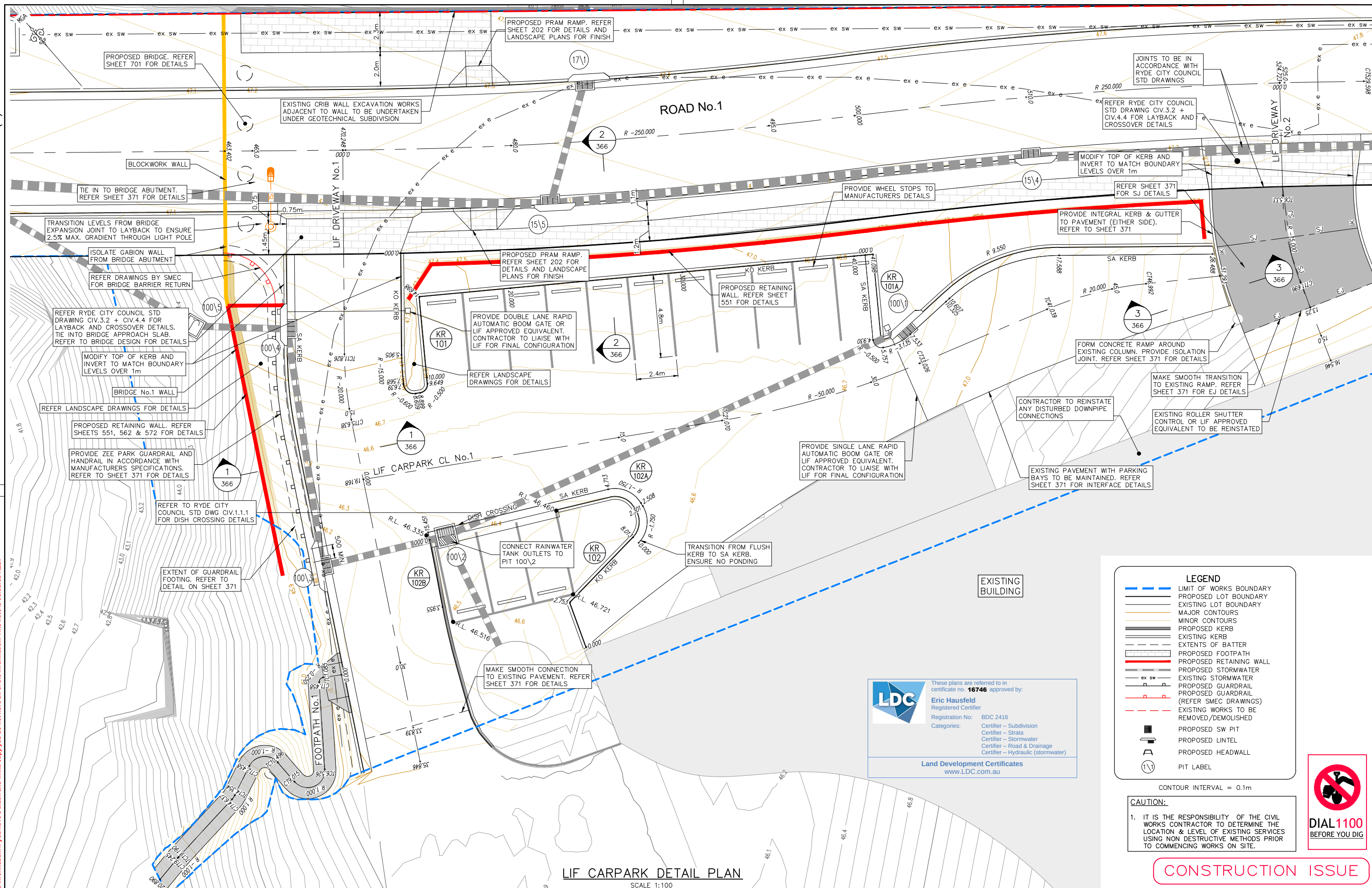
CAUTION:
1. IT IS THE RESPONSIBILITY OF THE CIVIL WORKS CONTRACTOR TO DETERMINE THE LOCATION & LEVEL OF EXISTING SERVICES USING NON DESTRUCTIVE METHODS PRIOR TO COMMENCING WORKS ON SITE.

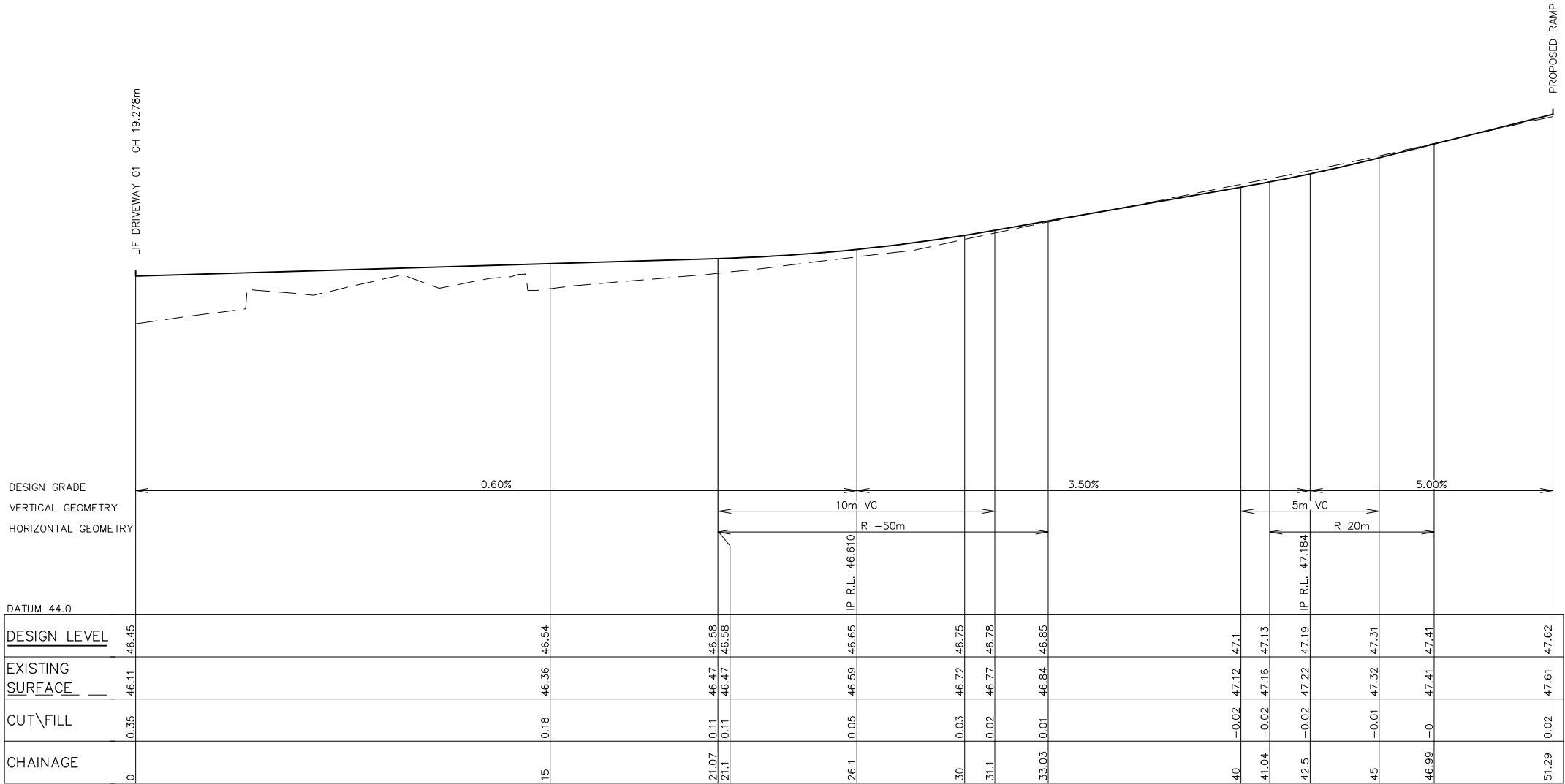


CONSTRUCTION ISSUE

REV.	DATE	AMENDMENT	DESIGN	DRAWN	CHECKED	APPROVED	SCALES	CLIENT	PROPERTY DESCRIPTION	PROJECT	PLAN TITLE	PROJECT No.	DISCIPLINE	NUMBER	REV.
1	21.01.22	ISSUED FOR CONSTRUCTION	B.M.	J.J.	B.M.	B.M.	A1 1:200 A3 1:400	Central Coast 5 Pioneer Avenue, P.O. Box 3717, Tuggerah N.S.W. 2259 Phone: (02) 4305 4300 Fax: (02) 4305 4399 email: coast@adwjohnson.com.au www.adwjohnson.com.au ABN 62 129 445 398	LOT 100 D.P.1262209 & LOT 1 D.P.859537 EPPING ROAD & LYONPARK ROAD, MACQUARIE PARK SSDA 8903	PROPOSED SUBDIVISION	OVERALL LIF CARPARK PLAN	300001(2) -	ENG	361	1

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Plotted By: Ben Myles Plot Date: 21/01/22 2:30:30PM Cad File: S:\300001\DRAWINGS\ENGINEERING\CIVIL\STAGE 2 CC ENG\300001(2)-ENG-361.DWG





LONGITUDINAL SECTION LIF CARPARK CL No.1

HORIZONTAL SCALE 1:100
VERTICAL SCALE 1:20

LIF CARPARK CL No.1 - SETOUT TABLE							
PT	CHAINAGE	EASTING	NORTHING	BEARING	RAD/SPIRAL	LENGTH	DEFL.ANGLE
IP 1	0.000	325801.422	6260288.798	121°55'31.05"			
TC	21.070	325819.304	6260277.656	121°55'31.05"			
IP 2	27.048	325824.403	6260274.480		R = -50.000	11.957	13°42'04.59"
CT	33.026	325830.108	6260272.601	108°13'26.46"			
TC	41.039	325837.719	6260270.095	108°13'26.46"			
IP 3	44.016	325840.568	6260269.157		R = 20.000	5.953	17°03'15.55"
CT	46.992	325843.016	6260267.426	125°16'42.02"			
IP 4	51.293	325846.327	6260264.942	125°16'42.02"			



These plans are referred to in certificate no. **16746** approved by:

Eric Hausfeld
Registered Certifier

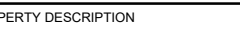
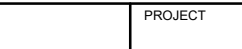
Registration No: BDC 2416

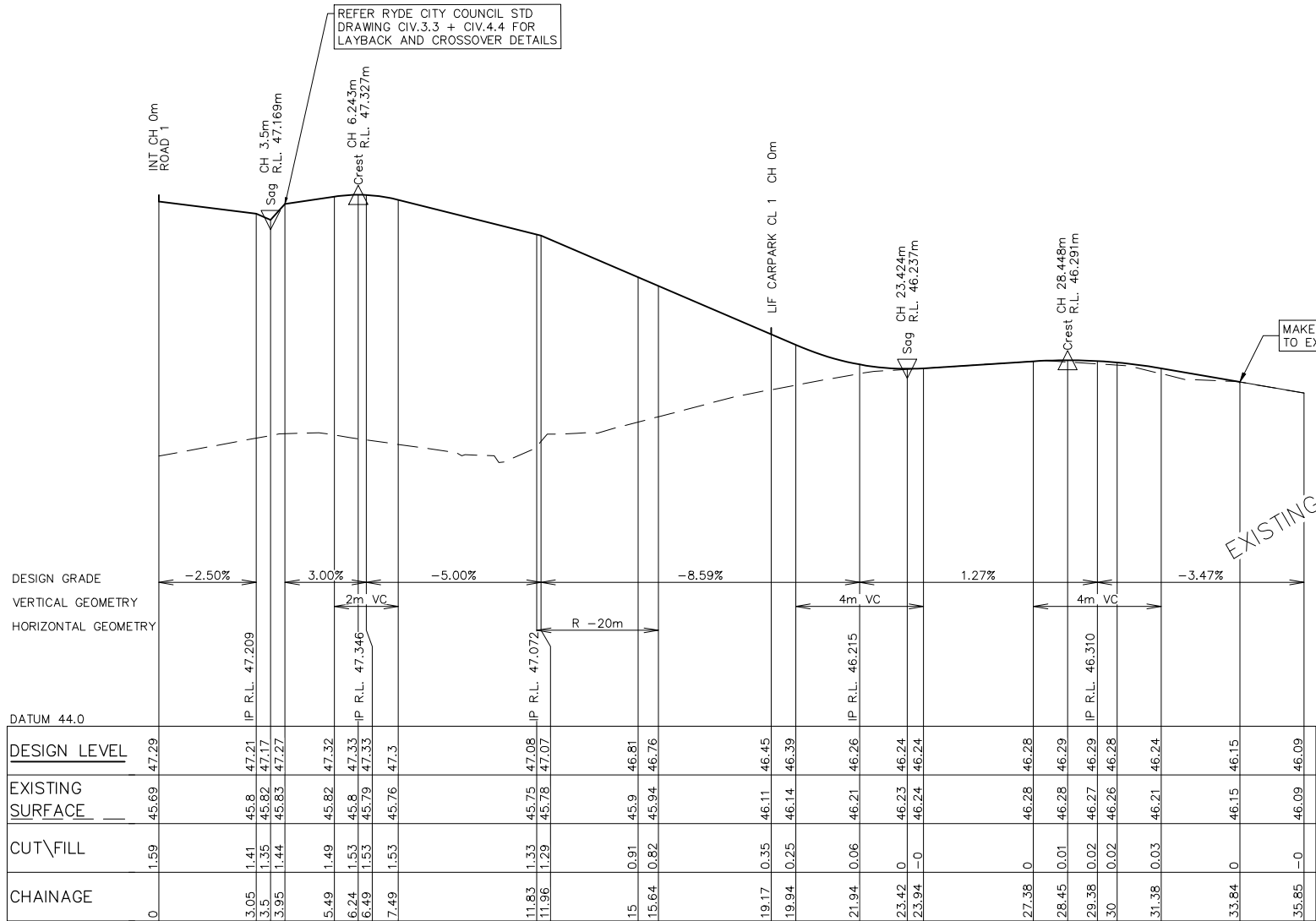
Categories: Certifier – Subdivision
Certifier – Strata
Certifier – Stormwater
Certifier – Road & Drainage
Certifier – Hydraulic (stormwater)

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CONSTRUCTION ISSUE

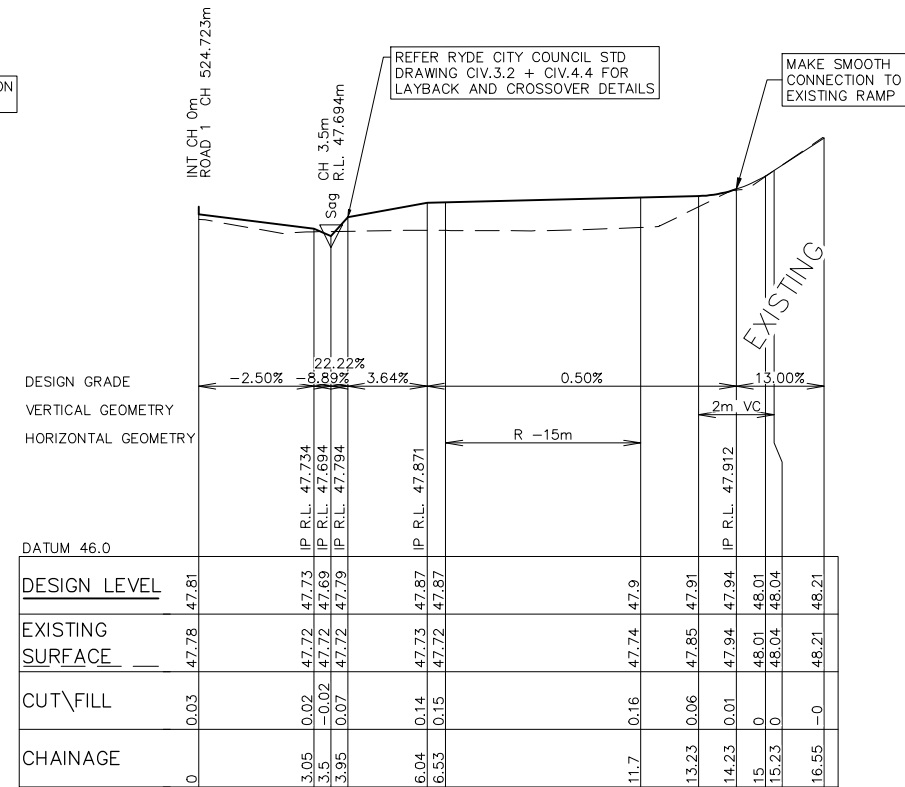
REV.	DATE	AMENDMENT	DESIGN	DRAWN	CHECKED	APPROVED	SCALES	 Central Coast 5 Pioneer Avenue, P.O. Box 3717, Tuggerah N.S.W. 2259 Phone: (02) 4305 4300 Fax: (02) 4305 4399 email: coast@adwjohnson.com.au www.adwjohnson.com.au ABN 62 129 445 398		CLIENT	PROPERTY DESCRIPTION LOT 100 D.P.1262209 & LOT 1 D.P.859537 EPPING ROAD & LYONPARK ROAD, MACQUARIE PARK SSDA 8903	PROJECT PROPOSED SUBDIVISION																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
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DESIGN FILE S:\300001\DESIGN\12D\STAGE 2 CC\DESIGN FILE.project							PROJECT No. DISCIPLINE NUMBER REV. 300001(2) – ENG – 363 1																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
1	21.01.22	ISSUED FOR CONSTRUCTION	B.M.	J.J.	B.M.	B.M.	A1 1:100 0 2.5 5.0m A3 1:200 A1 1:20 0 0.5 1.0m A3 1:40																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							



LONGITUDINAL SECTION LIF DRIVEWAY No.1

HORIZONTAL SCALE 1:100
VERTICAL SCALE 1:20

LIF DRIVEWAY No.1 - SETOUT TABLE							
PT	CHAINAGE	EASTING	NORTHING	BEARING	RAD/SPIRAL	A.LENGTH	DEFL.ANGLE
IP 1	0.000	325813.096	6260303.926	220°44'56.00"			
TC	11.826	325805.376	6260294.967	220°44'56.00"			
IP 2	13.732	325804.129	6260293.519		R = -20.000	3.812	10°55'09.50"
CT	15.638	325803.178	6260291.861	209°49'46.50"			
IP 3	35.846	325793.125	6260274.330	209°49'46.50"			



LONGITUDINAL SECTION LIF DRIVEWAY No.2

HORIZONTAL SCALE 1:100
VERTICAL SCALE 1:20

LIF DRIVEWAY No.2 - SETOUT TABLE							
PT	CHAINAGE	EASTING	NORTHING	BEARING	RAD/SPIRAL	A.LENGTH	DEFL.ANGLE
IP 1	0.000	325856.514	6260271.073	219°37'54.05"			
TC	6.533	325852.347	6260266.042	219°37'54.05"			
IP 2	9.115	325850.684	6260264.034		R = -15.000	5.163	19°43'18.41"
CT	11.696	325849.796	6260261.582	199°54'35.64"			
IP 3	16.546	325848.144	6260257.022	199°54'35.64"			

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These plans are referred to in certificate no. **16746** approved by:
Eric Hausfeld
Registered Certifier
Registration No: BDC 2416
Categories: Certifier - Subdivision
Certifier - Strata
Certifier - Stormwater
Certifier - Road & Drainage
Certifier - Hydraulic (stormwater)

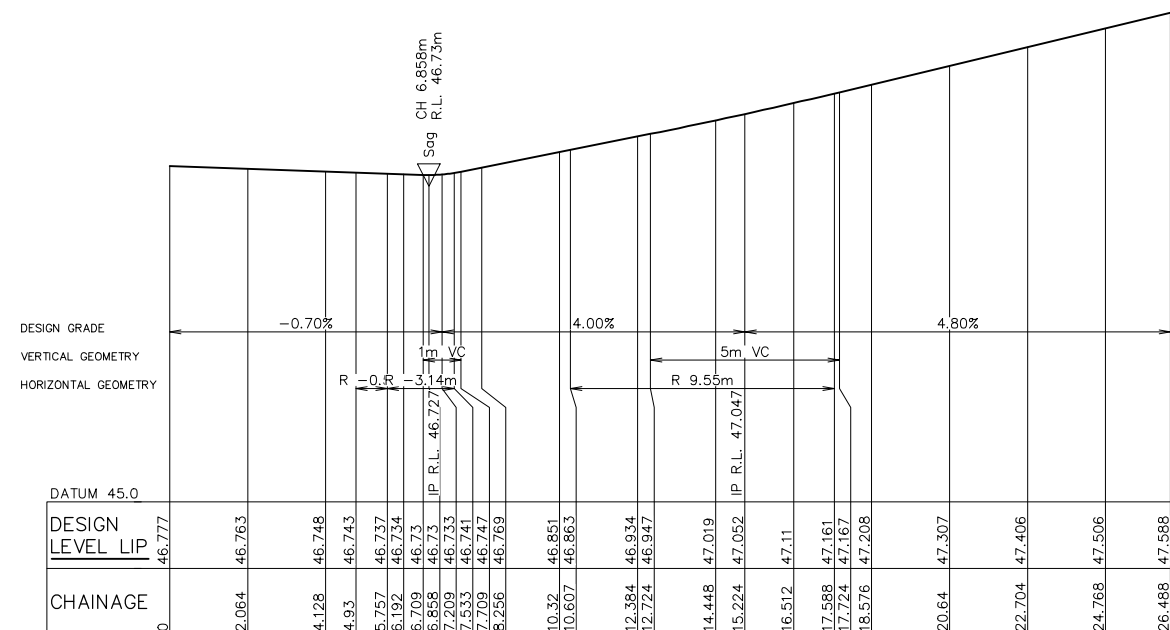
Land Development Certificates
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CONSTRUCTION ISSUE

REV.	DATE	AMENDMENT	DESIGN	DRAWN	CHECKED	APPROVED	SCALES	 Central Coast 5 Pioneer Avenue, P.O. Box 3717, Tuggerah N.S.W. 2259 Phone: (02) 4305 4300 Fax: (02) 4305 4399 email: coast@adwjohnson.com.au www.adwjohnson.com.au ABN 62 129 445 398	CLIENT		PROPERTY DESCRIPTION		PROJECT			
1	21.01.22	ISSUED FOR CONSTRUCTION	B.M.	J.J.	B.M.	B.M.	A1 1:100 0 2.5 5.0m A3 1:200 A1 1:20 0 0.5 1.0m A3 1:40 <td rowspan="2"> LOT 100 D.P.1262209 & LOT 1 D.P.859537 EPPING ROAD & LYONPARK ROAD, MACQUARIE PARK SSDA 8903 </td> <td colspan="4">PROPOSED SUBDIVISION</td>		LOT 100 D.P.1262209 & LOT 1 D.P.859537 EPPING ROAD & LYONPARK ROAD, MACQUARIE PARK SSDA 8903		PROPOSED SUBDIVISION					
DESIGN FILE S:\300001\DESIGN\12D\STAGE 2 CC\DESIGN FILE.project											DRIVEWAY LONGITUDINAL SECTIONS DRIVEWAY No.1 & No.2					
ALL DIMENSIONS ARE IN METRES. DO NOT SCALE								SURVEYED ADW Johnson		DATUM GDA94 M.G.A. ZONE 56 A.H.D.		PROJECT No. 300001(2) -	DISCIPLINE ENG -	NUMBER 364	REV. 1	

KR101A — SETOUT TABLE							
PT	CHAINAGE	EASTING	NORTHING	BEARING	RAD/SPIRAL	A.LENGTH	DEFL.ANGLE
IP 1	0.000	325831.857	6260279.394	215°53'42.10"			
TC	4.930	325828.967	6260275.401	215°53'42.10"			
IP 2	5.343	325829.867	6260274.945		R = -0.500	0.827	34°45'19.41"
CC	5.757	325829.114	6260274.679	121°08'22.69"			
IP 3	6.645	325829.895	6260274.207		R = -3.135	1.776	32°27'45.28"
IP 4	7.533	325830.807	6260274.229				
IP 5	10.325	325833.599	6260274.284				
TC	10.607	325833.881	6260274.289	88°51'10.68"			
IP 6	14.098	325837.535	6260274.363		R = 9.550	6.981	41°53'03.19"
CC	17.738	325840.304	6260274.377	130°44'13.87"			
IP 7	26.848	325847.048	6260266.370	130°44'13.87"			



LONGITUDINAL SECTION KR101A

HORIZONTAL SCALE 1:10
VERTICAL SCALE 1:20

KR102A — SETOUT TABLE							
PT	CHAINAGE	EASTING	NORTHING	BEARING	RAD/SPIRAL	A.LENGTH	DEFL.ANGLE
P 1	0.000	325811.65	6260275.85	85°20'45.46"			
P 2	1.151	325812.352	6260275.625		R = -1.750	2.301	75°21'00.69"
CT	2.301	325812.867	6260276.956	9°59'44.77"			
TC	2.508	325812.623	6260277.159	9°59'44.77"			
P 3	3.610	325812.844	6260278.416		R = -1.750	2.205	72°12'23.06"
CT	4.713	325811.715	6260279.011	297°42'21.71"			
P 4	4.545	325811.715	6260279.011	327°42'21.71"			

ANGLE					
0.69"					
5.06"					

CH 2.753m
R.L. 46.616m

Crest

0.56%

-1.27%

DESIGN GRADE

VERTICAL GEOMETRY

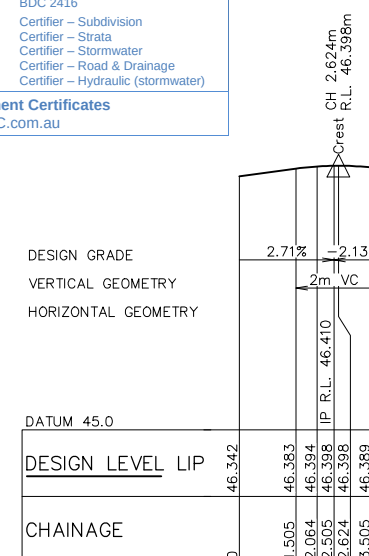
HORIZONTAL GEOMETRY

DATUM 45.0

	46.6	46.612	46.616	46.598	46.572	46.549
<u>DESIGN LEVEL</u> LIP						
CHAINAGE	0	2.064	2.753	4.128	5.192	6.013

LONGITUDINAL SECTION KR102A

HORIZONTAL SCALE 1:100
VERTICAL SCALE 1:20



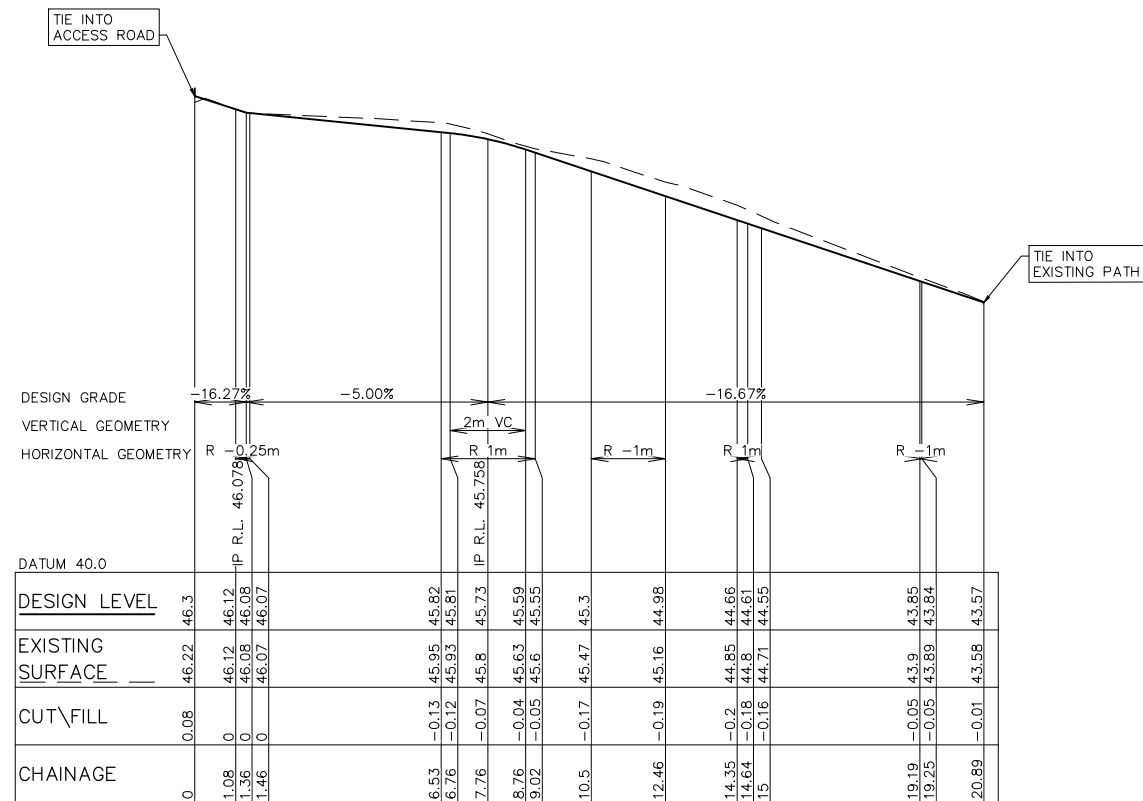
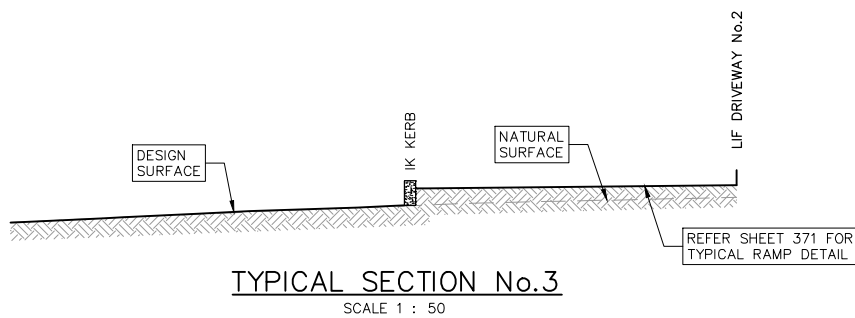
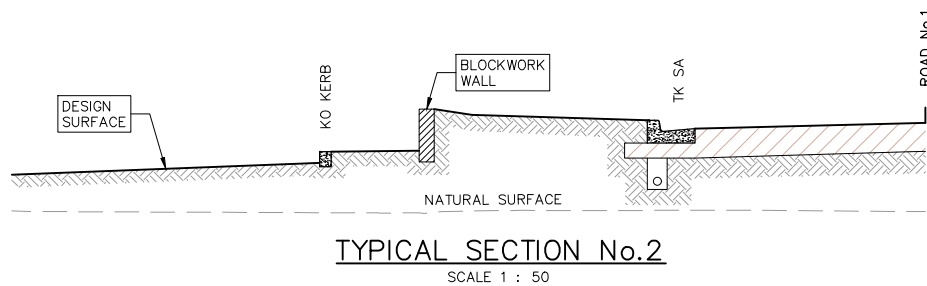
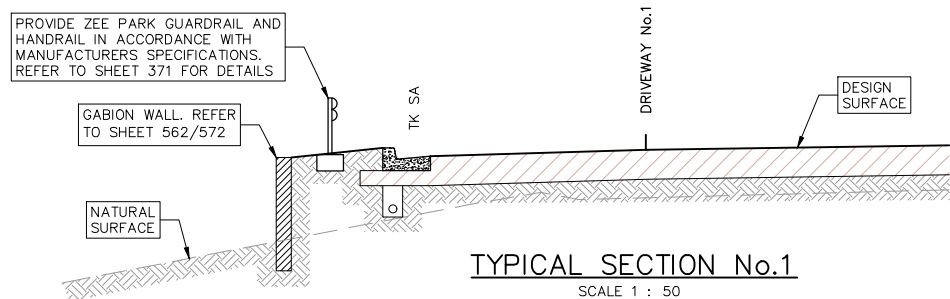
LONGITUDINAL SECTION KR102B

HORIZONTAL SCALE 1:10
VERTICAL SCALE 1:20



CONSTRUCTION ISSUE

Plotted By: Ben Myles Plot Date: 21/01/22 2:30:50PM Cad File: S:\300001\DRAWINGS\ENGINEERING\CIVIL\STAGE 2 CC ENG\300001(2)-ENG-365.DWG



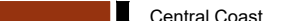
FOOTPATH No.1 – SETOUT TABLE							
PT	CHAINAGE	EASTING	NORTHING	BEARING	RAD/SPIRAL	A.LENGTH	DEFL.ANGLE
IP 1	0.000	325793.004	6260281.114	303°06'36.05"			
TC	1.085	325792.095	6260281.707	303°06'36.05"			
IP 2	1.271	325791.902	6260281.833		R = -0.250	0.373	85°32'01.21"
CT	1.458	325791.761	6260281.650	217°34'34.84"			
TC	6.528	325788.670	6260277.633	217°34'34.84"			
IP 3	7.148	325788.233	6260277.065		R = 1.000	1.245	71°19'44.70"
CT	7.771	325787.554	6260277.297	288°54'19.54"			
IP 4	8.393	325786.875	6260277.530		R = 1.000	1.245	71°19'44.70"
CT	9.015	325786.878	6260278.247	0°14'04.25"			
TC	10.496	325786.884	6260279.728	0°14'04.25"			
IP 5	11.477	325786.890	6260281.223		R = -1.000	1.962	112°26'20.49"
CT	12.458	325785.506	6260280.658	247°47'43.76"			
TC	14.354	325783.751	6260279.941	247°47'43.76"			
IP 6	14.496	325783.619	6260279.887		R = 1.000	0.282	16°10'53.72"
CT	14.637	325783.478	6260279.872	263°58'37.47"			
TC	19.190	325778.949	6260279.395	263°58'37.47"			
IP 7	19.218	325778.922	6260279.392		R = -1.000	0.055	3°08'59.19"
CT	19.245	325778.895	6260279.387	260°49'38.29"			
IP 8	20.890	325777.271	6260279.125	260°49'38.29"			



These plans are referred to in certificate no. **16746** approved by:
Eric Hausfeld
Registered Certifier
Registration No: BDC 2416
Categories: Certifier – Subdivision
Certifier – Strata
Certifier – Stormwater
Certifier – Road & Drainage
Certifier – Hydraulic (stormwater)
Land Development Certificates
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CONSTRUCTION ISSUE

REV.	DATE	AMENDMENT	DESIGN	DRAWN	CHECKED	APPROVED	SCALES		Central Coast 5 Pioneer Avenue, P.O. Box 3717, Tuggerah N.S.W. 2259 Phone: (02) 4305 4300 Fax: (02) 4305 4399 email: coast@adwjohnson.com.au www.adwjohnson.com.au ABN 62 129 445 398	CLIENT 	PROPERTY DESCRIPTION LOT 100 D.P.1262209 & LOT 1 D.P.859537 EPPING ROAD & LYONPARK ROAD, MACQUARIE PARK SSDA 8903	PROJECT PROPOSED SUBDIVISION			
1	21.01.22	ISSUED FOR CONSTRUCTION	B.M.	J.J.	B.M.	B.M.						PLAN TITLE FOOTPATH No.1 LONGITUDINAL SECTION & TYPICAL CARPARK No.1 DETAILS	SURVEYED ADW Johnson	DATUM GDA94 M.G.A. ZONE 56 A.H.D.	PROJECT No. 300001(2) -
DESIGN FILE S:\300001\DESIGN\12D\STAGE 2 CC\DESIGN FILE.project							ALL DIMENSIONS ARE IN METRES. DO NOT SCALE								

These plans are referred to in certificate no. **16746** approved by:

LDC
Eric Hausfeld
Registered Certifier
Registration No: BDC 2416
Categories:
Certifier - Subdivision
Certifier - Strata
Certifier - Stormwater
Certifier - Road & Drainage
Certifier - Hydraulic (stormwater)

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CAUTION:

1. IT IS THE RESPONSIBILITY OF THE CIVIL WORKS CONTRACTOR TO DETERMINE THE LOCATION & LEVEL OF EXISTING SERVICES USING NON DESTRUCTIVE METHODS PRIOR TO COMMENCING WORKS ON SITE.

LEGEND	
	WORKS SUBJECT TO ROADS ACT APPROVAL
	LIMIT OF WORKS BOUNDARY
	PROPOSED LOT BOUNDARY
	EXISTING LOT BOUNDARY
	MAJOR CONTOURS
	MINOR CONTOURS
	PROPOSED KERB
	EXISTING KERB
	EXTENTS OF BATTER
	PROPOSED PAVED FOOTPATH
	PROPOSED CONCRETE FOOTPATH
	PROPOSED RETAINING WALL
	PROPOSED STORMWATER
	EXISTING STORMWATER
	PROPOSED SW PIT
	PROPOSED LINTEL
	PROPOSED HEADWALL
	PIT LABEL

CONTOUR INTERVAL = 0.1m

**IDENTIFIED RISK/HAZARD**

1. CONTRACTOR IS TO IDENTIFY AND RELOCATE ANY SERVICES WITHIN CARPARK AREA.

LIF CARPARK DETAIL PLAN

SCALE 1:100

REV.	DATE	AMENDMENT	DESIGN	DRAWN	CHECKED	APPROVED	SCALES
1	21.01.22	ISSUED FOR CONSTRUCTION	B.M.	J.J.	B.M.	B.M.	A1 1:100 A3 1:200



Central Coast
5 Pioneer Avenue,
P.O. Box 3717,
Tuggerah N.S.W. 2259
Phone: (02) 4305 4300
Fax: (02) 4305 4399
email: coast@adwjohnson.com.au
www.adwjohnson.com.au
ABN 62 129 445 398

CLIENT



PROPERTY DESCRIPTION

LOT 100 D.P.1262209 & LOT 1 D.P.859537
EPPING ROAD & LYONPARK ROAD,
MACQUARIE PARK
SSDA 8903

SURVEYED
ADW JohnsonDATUM
GDA94 M.G.A. ZONE 56 A.H.D.

PROJECT

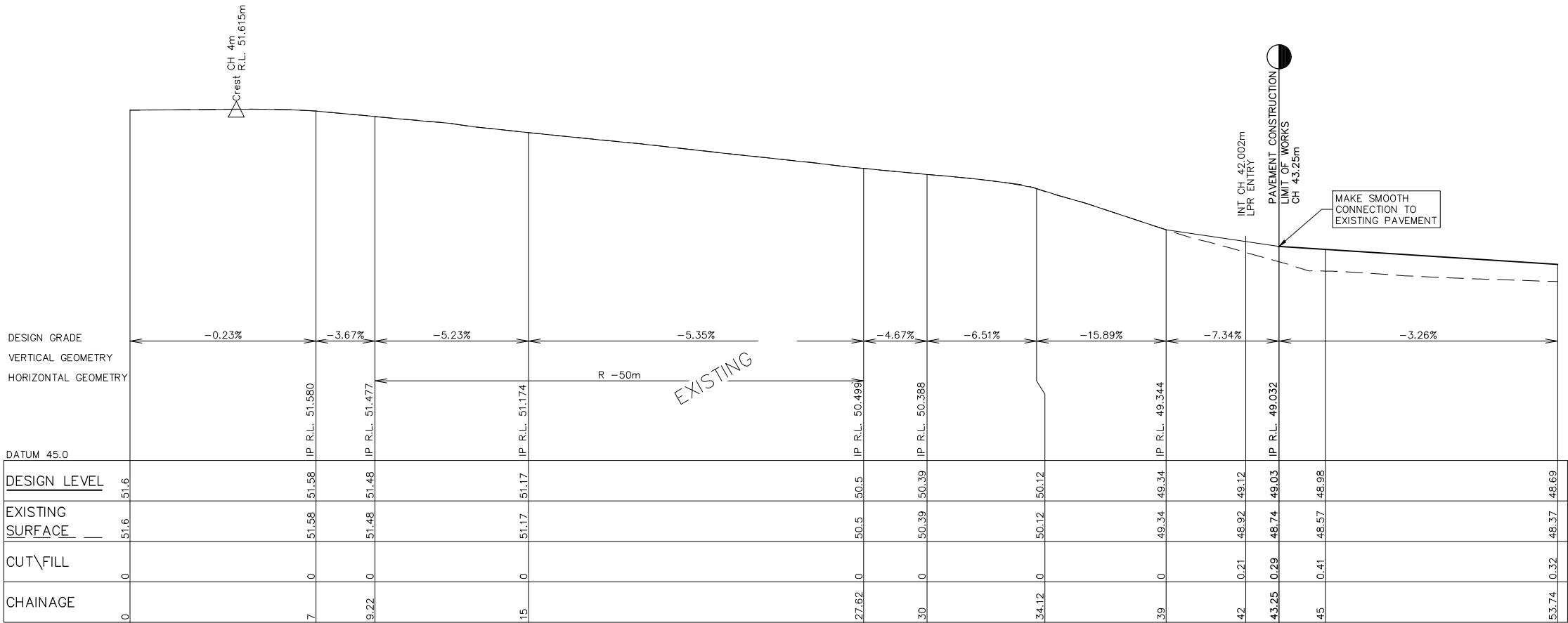
PROPOSED SUBDIVISION

PLAN TITLE

LIF CARPARK DETAIL PLAN
CARPARK No.2PROJECT No.
300001(2) -DISCIPLINE
ENGNUMBER
367REV.
1

DESIGN FILE S:\300001\DESIGN\12D\STAGE 2 CC\DESIGN FILE.project
Plotted By: Ben Myles Plot Date: 21/01/22 2:31:02PM Cad File: S:\300001\DRAWINGS\ENGINEERING\CIVIL\STAGE 2 CC ENG\300001(2)-ENG-367.DWG

**DIAL1100**
BEFORE YOU DIG**CONSTRUCTION ISSUE**



LONGITUDINAL SECTION LIF CARPARK CL No.2

HORIZONTAL SCALE 1:100
VERTICAL SCALE 1:50

LIF CARPARK CL No.2 – SETOUT TABLE						
PT	CHAINAGE	EASTING	NORTHING	BEARING	RAD/SPIRAL	A.LENGTH
IP 1	0.000	325839.061	6260204.085	61°32'48.53"		
TC	9.216	325847.164	6260208.476	61°32'48.53"		
IP 2	18.418	325855.346	6260212.911		R = -50.000	18.403
CT	27.619	325861.385	6260219.992	40°27'32.49"		21°05'16.04"
IP 3	53.743	325878.337	6260239.869	40°27'32.49"		

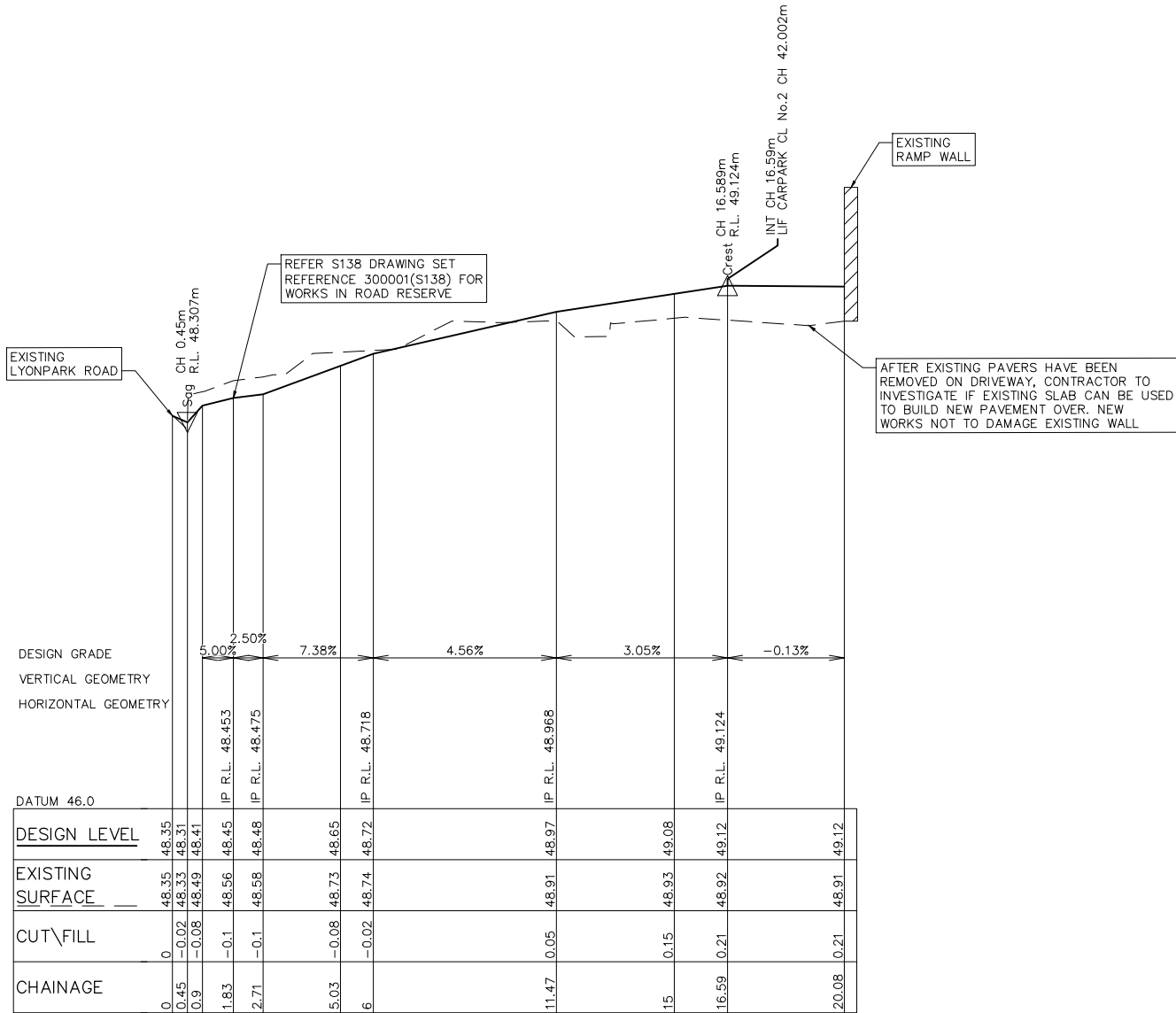


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Certifier – Hydraulic (stormwater)
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CONSTRUCTION ISSUE

REV.	DATE	AMENDMENT	DESIGN	DRAWN	CHECKED	APPROVED	SCALES		Central Coast 5 Pioneer Avenue, P.O. Box 3717, Tuggerah N.S.W. 2259 Phone: (02) 4305 4300 Fax: (02) 4305 4399 email: coast@adwjohnson.com.au www.adwjohnson.com.au ABN 62 129 445 398	CLIENT 	PROPERTY DESCRIPTION		PROJECT PROPOSED SUBDIVISION							
1	21.01.22	ISSUED FOR CONSTRUCTION	B.M.	J.J.	B.M.	B.M.					LOT 100 D.P.1262209 & LOT 1 D.P.859537 EPPING ROAD & LYONPARK ROAD, MACQUARIE PARK SSDA 8903		PLAN TITLE LIF CARPARK SECTION CARPARK CL No.2							
DESIGN FILE S:\300001\DESIGN\12D\STAGE 2 CC\DESIGN FILE.project							ALL DIMENSIONS ARE IN METRES. DO NOT SCALE				SURVEYED ADW Johnson		DATUM GDA94 M.G.A. ZONE 56 A.H.D.		PROJECT No. 300001(2) -		DISCIPLINE ENG -		NUMBER 368	



LONGITUDINAL SECTION LIF DRIVEWAY No.3

HORIZONTAL SCALE 1:100
VERTICAL SCALE 1:20

DRIVEWAY No.3 - SETOUT TABLE				
PT	CHAINAGE	EASTING	NORTHING	BEARING
IP 1	0.000	325883.058	6260219.847	311°56'25.75"
IP 2	20.077	325868.125	6260233.265	311°56'25.75"



These plans are referred to in
certificate no. **16746** approved by:

Eric Hausfeld
Registered Certifier

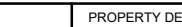
Registration No: BDC 2416

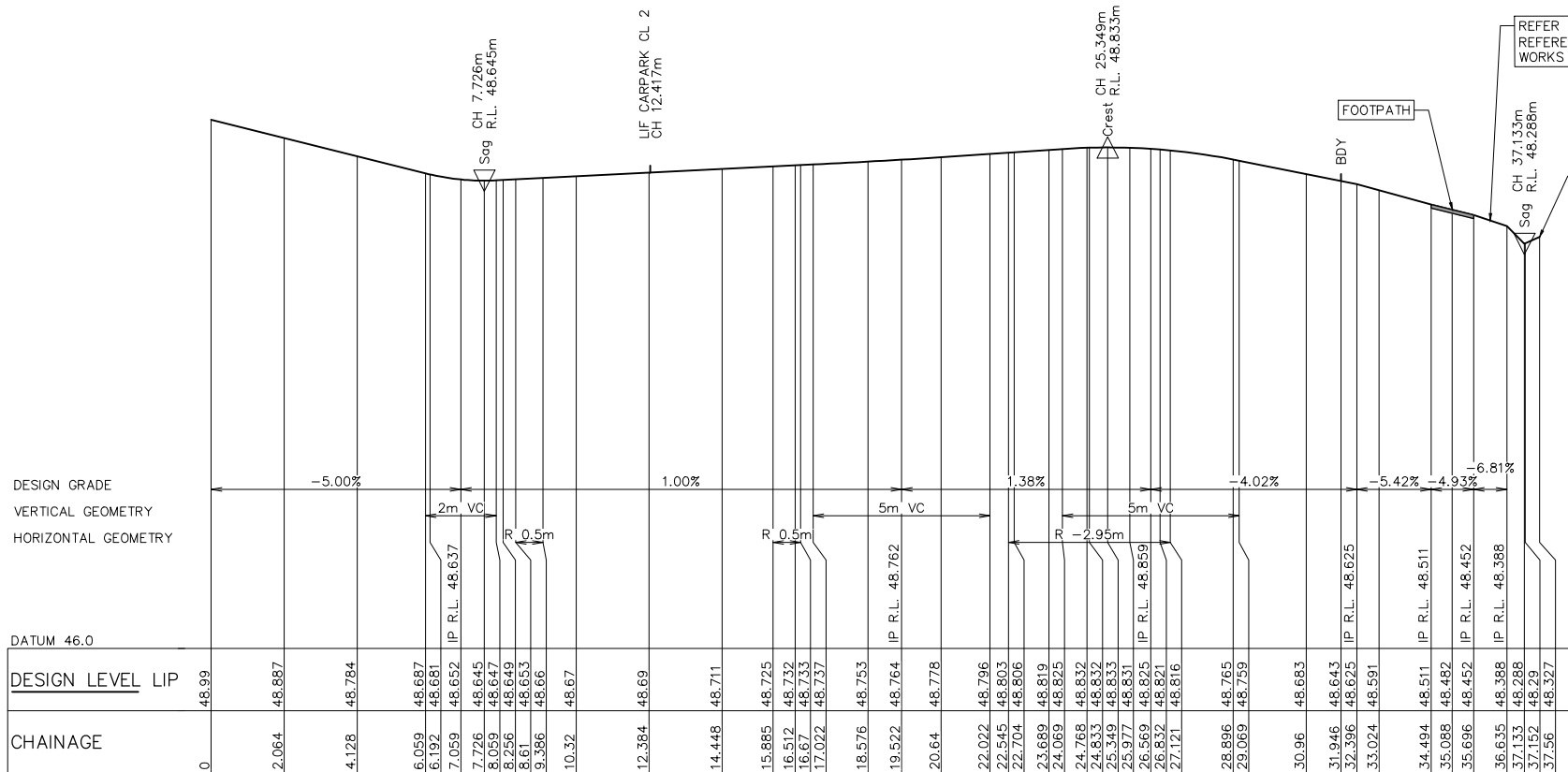
Categories: Certifier – Subdivision
Certifier – Strata
Certifier – Stormwater
Certifier – Road & Drainage
Certifier – Hydraulic (stormwater)

Land Development Certificates
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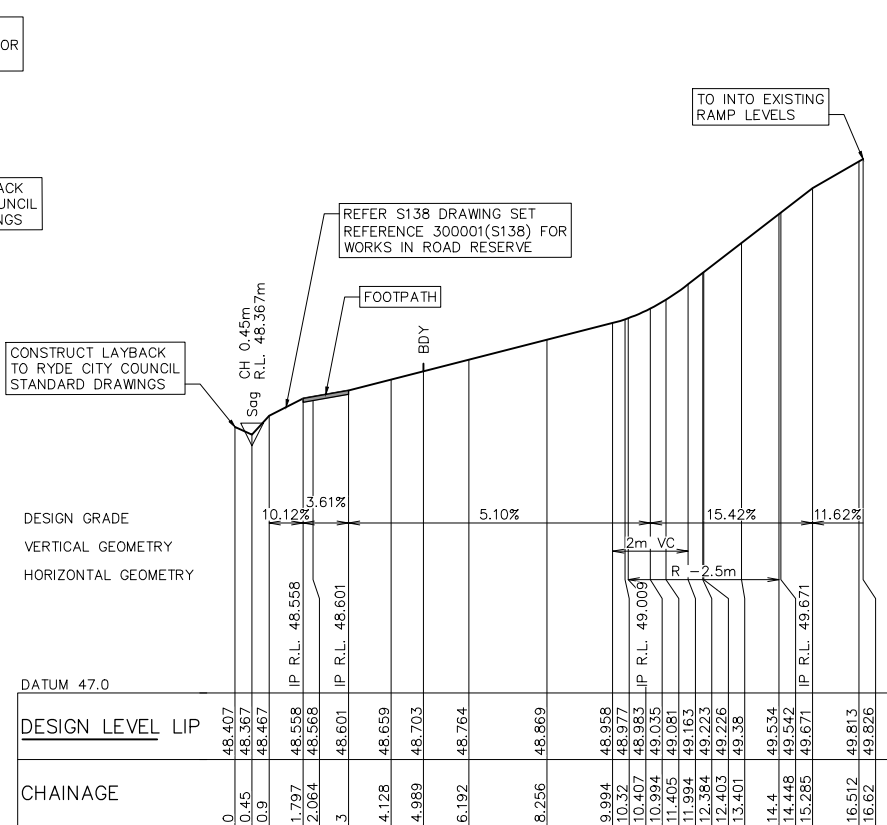


CONSTRUCTION ISSUE

REV.	DATE	AMENDMENT	DESIGN	DRAWN	CHECKED	APPROVED	SCALES		Central Coast 5 Pioneer Avenue, P.O. Box 3717, Tuggerah N.S.W. 2259 Phone: (02) 4305 4300 Fax: (02) 4305 4399 email: coast@adwjohnson.com.au www.adwjohnson.com.au ABN 62 129 445 398		CLIENT	PROPERTY DESCRIPTION LOT 100 D.P.1262209 & LOT 1 D.P.859537 EPPING ROAD & LYONPARK ROAD, MACQUARIE PARK SSDA 8903	PROJECT PROPOSED SUBDIVISION			
							PLAN TITLE DRIVEWAY LONGITUDINAL SECTION DRIVEWAY No.03									
DESIGN FILE S:\300001\DESIGN\12D\STAGE 2 CC\DESIGN FILE.project							ALL DIMENSIONS ARE IN METRES. DO NOT SCALE						SURVEYED ADW Johnson	DATUM GDA94 M.G.A. ZONE 56 A.H.D.	PROJECT No. 300001(2) -	DISCIPLINE ENG -



KR103 - SETOUT TABLE							
PT	CHAINAGE	EASTING	NORTHING	BEARING	RAD/SPIRAL	A.LENGTH	DEFL.ANGLE
IP 1	0.000	325870.157	6260234.968	27°28'41.09"			
IP 2	0.658	325870.460	6260235.551				
IP 3	4.821	325872.812	6260238.986				
TC	8.610	325875.344	6260241.808	41°56'00.38"			
IP 4	8.998	325875.672	6260242.170		R = 0.500	0.776	88°52'47.74"
CT	9.386	325876.043	6260241.850	130°48'48.12"			
TC	15.885	325880.961	6260237.602	130°48'48.12"			
IP 5	16.277	325881.340	6260237.276		R = 0.500	0.785	90°00'00.00"
CT	16.670	325881.013	6260236.897	220°48'48.12"			
TC	22.545	325877.173	6260232.451	220°48'48.12"			
IP 6	24.833	325875.283	6260230.262		R = -2.950	4.576	88°52'22.37"
CT	27.121	325877.434	6260228.328	131°56'25.75"			
IP 7	31.946	325881.023	6260225.104				
IP 8	32.396	325881.324	6260225.438				
IP 9	37.560	325885.854	6260222.957	118°42'54.83"			



KR103A - SETOUT TABLE							
PT	CHAINAGE	EASTING	NORTHING	BEARING	RAD/SPIRAL	A.LENGTH	DEFL.ANGLE
IP 1	0.000	325881.026	6260217.640	311°56'25.75"			
TC	10.407	325873.285	6260224.596	311°56'25.75"			
IP 2	12.403	325871.376	6260226.311		R = -2.500	3.993	91°30'14.90"
CT	14.400	325869.711	6260224.357	220°26'10.84"			
IP 3	16.620	325868.271	6260222.668	220°26'10.84"			



These plans are referred to in certificate no. **16746** approved by:

Eric Hausfeld
Registered Certifier

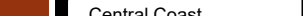
Registration No: BDC 2416

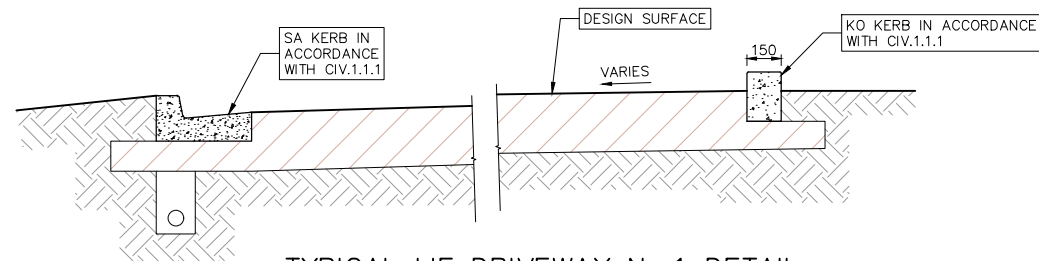
Categories: Certifier – Subdivision
Certifier – Strata
Certifier – Stormwater
Certifier – Road & Drainage
Certifier – Hydraulic (stormwater)

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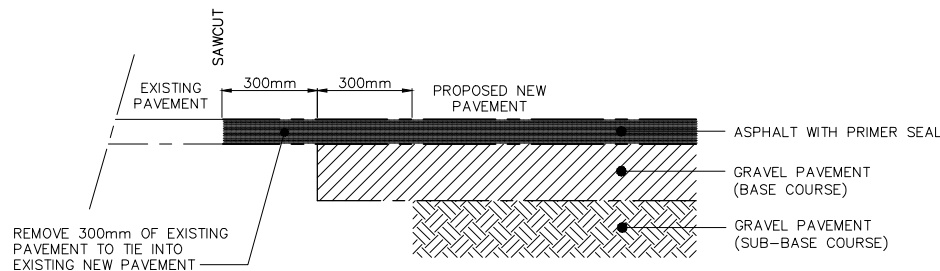
CONSTRUCTION ISSUE

REV.	DATE	AMENDMENT	DESIGN	DRAWN	CHECKED	APPROVED	SCALES		Central Coast 5 Pioneer Avenue, P.O. Box 3717, Tuggerah N.S.W. 2259 Phone: (02) 4305 4300 Fax: (02) 4305 4399 email: coast@adwjohnson.com.au www.adwjohnson.com.au ABN 62 129 445 398	CLIENT 	PROPERTY DESCRIPTION	PROJECT PROPOSED SUBDIVISION				
1	21.01.22	ISSUED FOR CONSTRUCTION	B.M.	J.J.	B.M.	B.M.					LOT 100 D.P.1262209 & LOT 1 D.P.859537 EPPING ROAD & LYONPARK ROAD, MACQUARIE PARK SSDA 8903	PLAN TITLE KERB RETURN LONGITUDINAL SECTIONS KR103 & KR103A	PROJECT No. 300001(2) -	DISCIPLINE ENG -	NUMBER 370	REV. 1
DESIGN FILE S:\300001\DESIGN\12D\STAGE 2 CC\DESIGN FILE.project							ALL DIMENSIONS ARE IN METRES. DO NOT SCALE				SURVEYED ADW Johnson	DATUM GDA94 M.G.A. ZONE 56 A.H.D.				



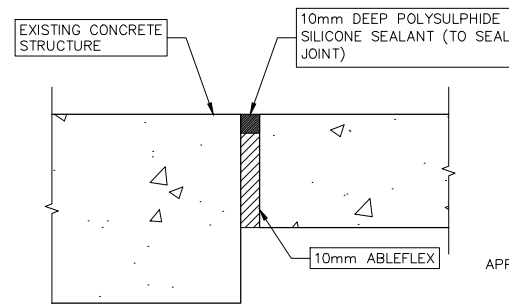
TYPICAL LIF DRIVEWAY No.1 DETAIL

NOT TO SCALE



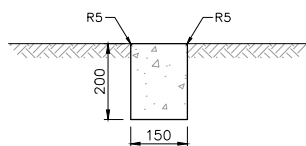
TYPICAL SAWCUT DETAIL

SCALE 1:10



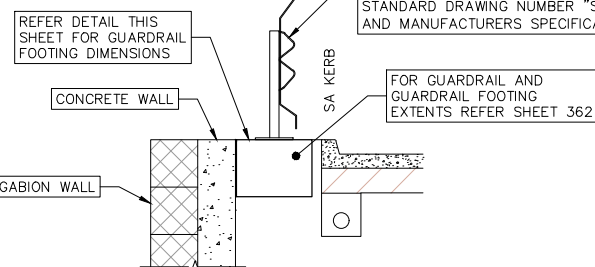
ISOLATION JOINT DETAIL (IJ)

NOT TO SCALE



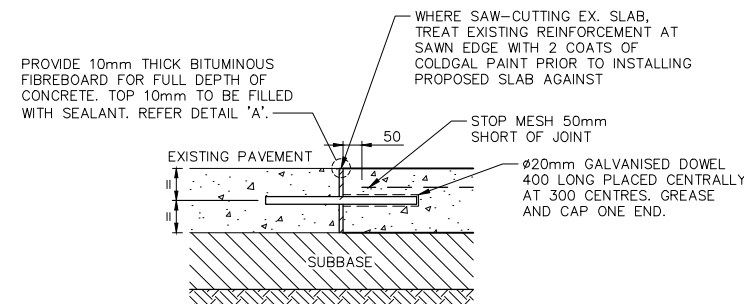
EDGE STRIP

NOT TO SCALE



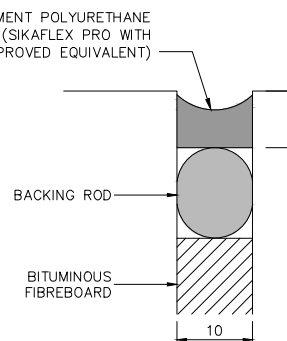
TYPICAL GUARDRAIL DETAIL

NOT TO SCALE



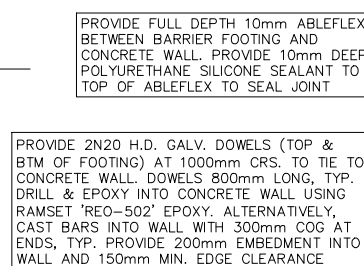
EXPANSION JOINT DETAIL (EJ)

SCALE 1:10



DETAIL 'A'

NOT TO SCALE

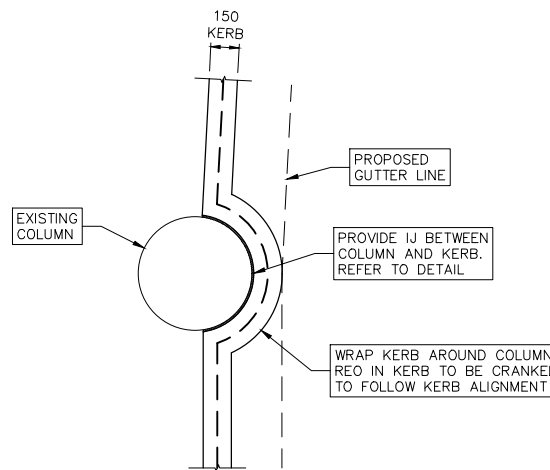


TYPICAL GUARDRAIL FOOTING DETAIL

SCALE 1:20

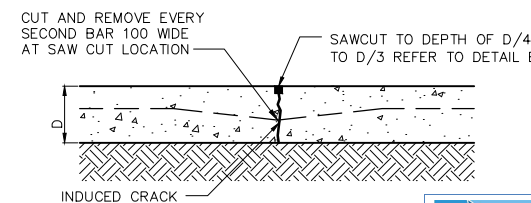
TYPICAL GUARDRAIL FOOTING DETAILS:

- CONCRETE GRADE - 32MPa (80mm SLUMP, 20mm AGGREGATE GP CEMENT)
- CONCRETE COVER (CAST AGAINST GROUND) - 50mm
- CONCRETE COVER (EXPOSED TO ATMOSPHERE) - 40mm



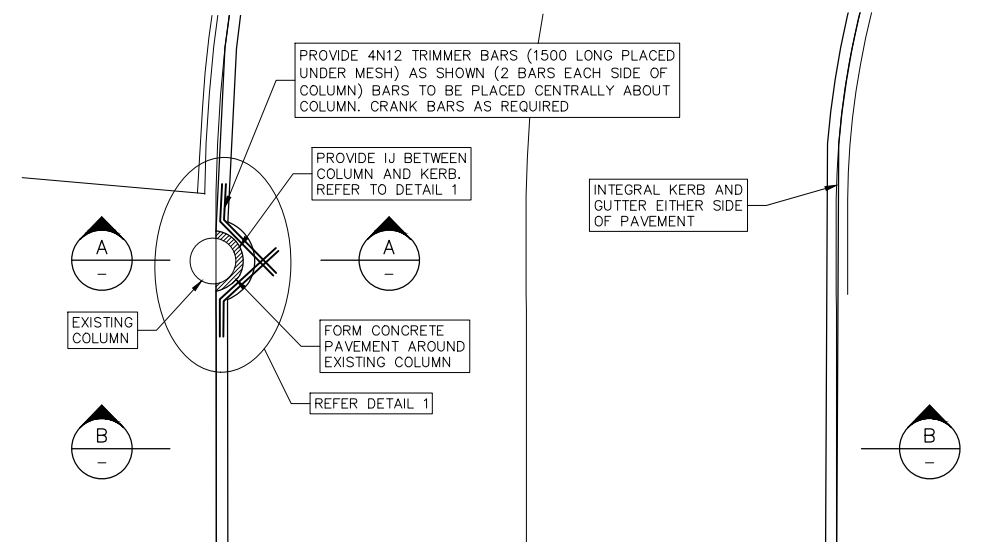
DETAIL 1

SCALE 1:20



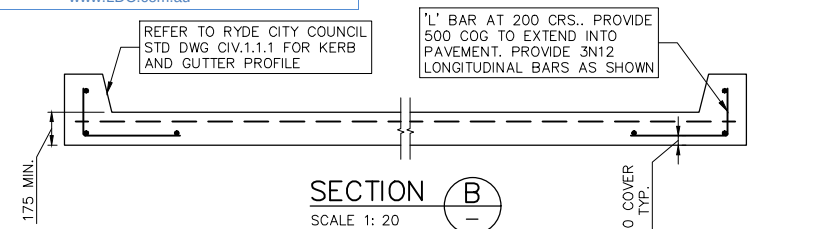
SAWN JOINT (SJ)

SCALE 1:10



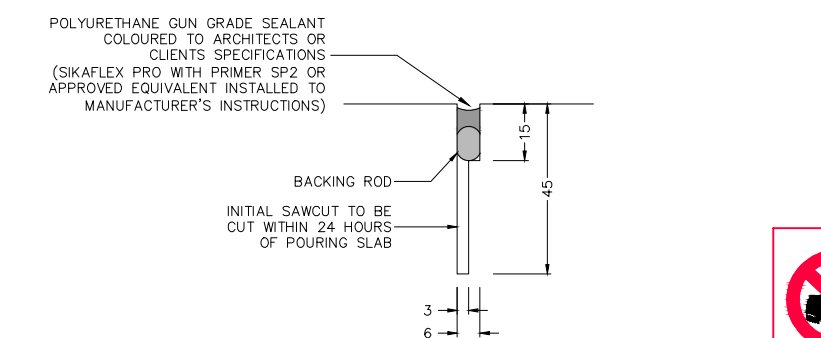
EXISTING COLUMN/DRIVEWAY DETAIL

SCALE 1:50



SECTION A

SCALE 1:20



DETAIL 'B'

NOT TO SCALE

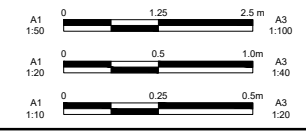
SAFETY BARRIER DESIGN LOADS NOTE:

THE 'ZEE-PARK' SAFETY BARRIER TO BE INSTALLED NEEDS TO BE DESIGNED AS A CARPARK BARRIER FOR MEDIUM VEHICLE TRAFFICABLE AREAS (MAX. 10 TONNE VEHICLES - HORIZ. IMPOSED ACTION = 40KN IN ACCORDANCE WITH SECTION 3.8 OF AS1170.1). THE MANUFACTURER SUPPLYING THE PRODUCT IS TO CONFIRM THAT THE PRODUCT SPECIFIED MEETS THIS DESIGN REQUIREMENT.

DIAL 1100
BEFORE YOU DIG

CONSTRUCTION ISSUE

REV.	DATE	AMENDMENT	DESIGN	DRAWN	CHECKED	APPROVED	SCALES
1	21.01.22	ISSUED FOR CONSTRUCTION	B.M.	J.J.	B.M.	B.M.	



Central Coast
5 Pioneer Avenue,
P.O. Box 3717,
Tuggerah N.S.W. 2259
Phone: (02) 4305 4300
Fax: (02) 4305 4399
email: coast@adwjohnson.com.au
www.adwjohnson.com.au
ABN 62 129 445 398

CLIENT



PROPERTY DESCRIPTION

LOT 100 D.P.1262209 & LOT 1 D.P.859537
EPPING ROAD & LYONPARK ROAD,
MACQUARIE PARK
SSDA 8903

SURVEYED

ADW Johnson

DATUM

GDA94 M.G.A. ZONE 56 A.H.D.

PROJECT

PROPOSED SUBDIVISION

PLAN TITLE

TYPICAL DETAILS
& SECTIONS

PROJECT No.

300001(2) - ENG

DISCIPLINE

ENG

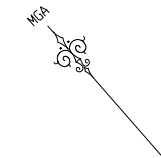
NUMBER

371

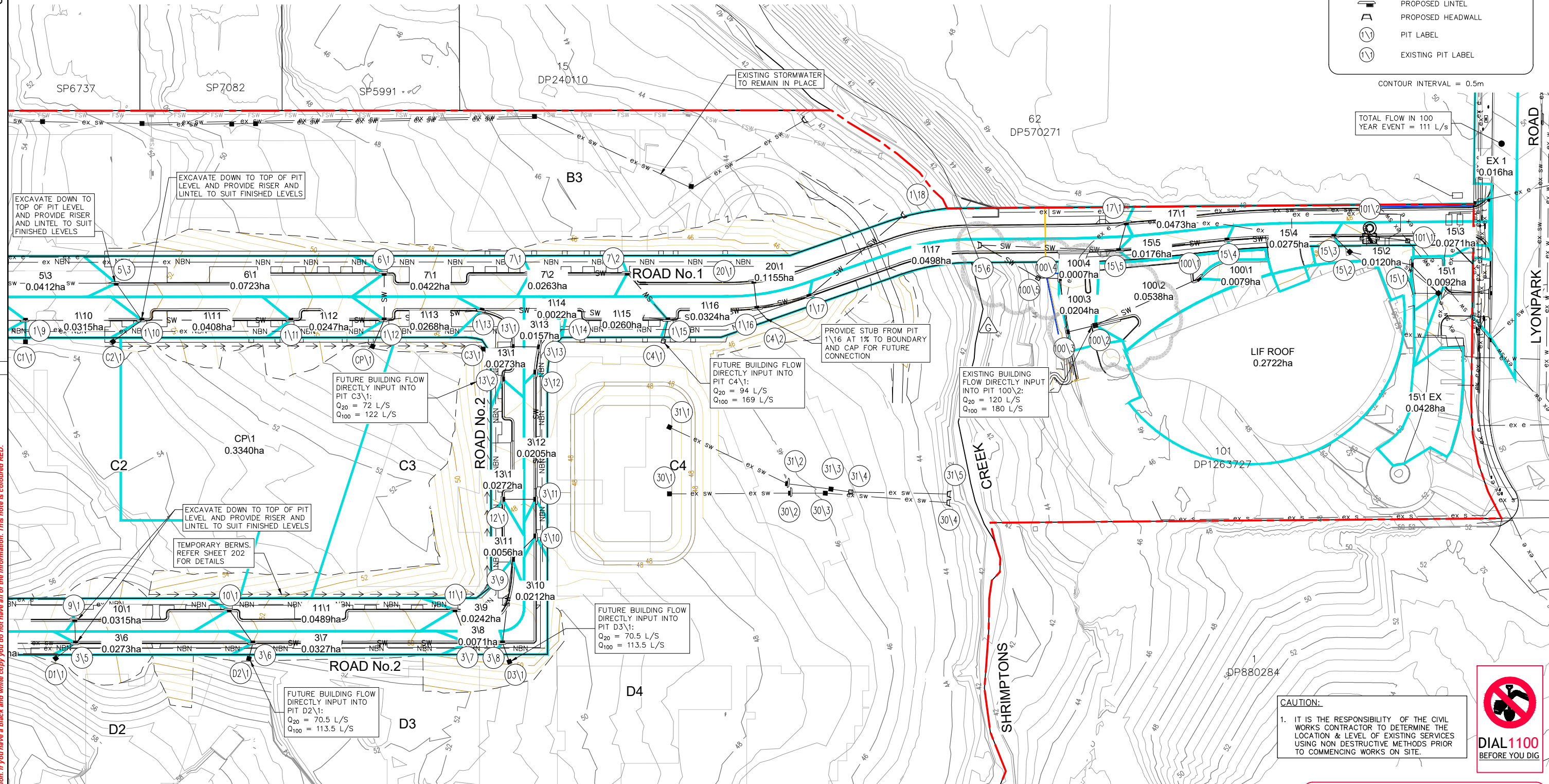
REV.

1

1. FOR TYPICAL ROAD CROSS SECTIONS, KERB PROFILES REFER SHEET 201 & PAVEMENT DETAILS REFER TO SHEET 151.
2. SETOUT INFORMATION IS TO BE VERIFIED BY THE CONTRACTOR AGAINST THE PLAN VIEW, LONGITUDINAL SECTIONS AND ELECTRONIC 12D DATA BEFORE BEING USED. IF THERE IS A DISCREPANCY THE SUPERINTENDENT IS TO BE NOTIFIED AND DIRECTION TO BE PROVIDED IN WRITING BEFORE PROCEEDING.
3. FUTURE BUILDINGS FLOWS DIRECTLY INPUT TO PITS C2/1, C3/1, C4/1, D2/1 AND D3/1 FROM RAFTS MODEL. REFER TO DA SWMP PREPARED BY ADW JOHNSON AND CALC. CHARTS FOR DETAILS.



- ## LEGEND
- | | |
|--|-------------------------|
| | LIMIT OF WORKS BOUNDARY |
| | PROPOSED LOT BOUNDARY |
| | EXISTING LOT BOUNDARY |
| | MAJOR CONTOURS |
| | MINOR CONTOURS |
| | PROPOSED KERB |
| | EXISTING KERB |
| | EXTENTS OF BATTER |
| | CATCHMENT BOUNDARY |
| | PROPOSED STORMWATER |
| | EXISTING STORMWATER |
| | FUTURE STORMWATER |
| | TEMPORARY BERM |
| | PROPOSED SW PIT |
| | PROPOSED LINTEL |
| | PROPOSED HEADWALL |
| | PIT LABEL |
| | EXISTING PIT LABEL |



STORMWATER CATCHMENT PLAN

REV.		DATE	AMENDMENT	DESIGN	DRAWN	CHECKED	APPROVED	SCALES		Central Coast 5 Pioneer Avenue, P.O. Box 3717, Tuggerah N.S.W. 2259 Phone: (02) 4305 4300 Fax: (02) 4305 4399 email: coast@adwjohnson.com.au www.adwjohnson.com.au ABN 62 129 445 398		CLIENT	PROPERTY DESCRIPTION			PROJECT		PROPOSED SUBDIVISION			
1	21.01.22	ISSUED FOR CONSTRUCTION	B.M.	J.J.	B.M.	B.M.		LOT 100 D.P.1262209 & LOT 1 D.P.859537 EPPING ROAD & LYONPARK ROAD, MACQUARIE PARK SSDA 8903					PLAN TITLE		STORMWATER CATCHMENT PLAN						
DESIGN FILE S:\3000001\DESIGN\12D\STAGE 2 CC\DESIGN FILE.project								ALL DIMENSIONS ARE IN METRES. DO NOT SCALE		SURVEYED ADW Johnson		DATUM GDA94 M.G.A. ZONE 56 A.H.D.		PROJECT No. 300001(2) -		DISCIPLINE ENG -		NUMBER 401		REV. 1	

Plotted By: Ben Myles Plot Date: 21/01/22 2:31:30PM Cad File: S:\300001\DRAWINGS\ENGINEERING\CIVIL\STAGE 2 CC ENG\300001(2)-ENG-401.DWG

STORMWATER SETOUT			
PIT NAME	PIT TYPE	EASTING	NORTHING
		m	m
1\1	1.8m UNTEL	325526.5	6260581.128
1\2	1.8m UNTEL	325519.789	6260572.772
1\3	1.8m UNTEL	325524.011	6260556.871
1\4	1.8m UNTEL	325527.843	6260540.363
1\5	1.8m UNTEL	325542.088	6260526.612
1\6	1.8m UNTEL	325539.014	6260519.544
1\7	1.8m UNTEL	325566.432	6260495.349
1\8	1.8m UNTEL	325578.784	6260481.221
1\9	1.8m UNTEL	325596.857	6260465.409
1\10	1.8m UNTEL (CUSTOM PIT)	325619.37	6260445.713
1\11	1.8m UNTEL	325648.216	6260420.476
1\12	1.8m UNTEL	325666.28	6260404.672
1\13	1.8m UNTEL	325686.503	6260389.795
1\14	1.8m UNTEL (CUSTOM PIT)	325703.326	6260375.583
1\15	1.8m UNTEL (CUSTOM PIT)	325721.158	6260356.661
1\16	2.4m UNTEL SAG (CUSTOM PIT)	325740.346	6260343.779
1\17	1.8m UNTEL (CUSTOM PIT)	325752.48	6260337.269
1\18	HEADWALL OUTLET	325783.977	6260336.887
3\1	900 x 900 GSI P	325471.604	6260457.855
3\2	1.8m UNTEL	325480.356	6260457.052
3\3	1.8m UNTEL	325499.773	6260440.064
3\4	1.8m UNTEL	325527.657	6260415.668
3\5	1.8m UNTEL	325551.836	6260394.514
3\6	1.8m UNTEL	325586.146	6260364.496
3\7	1.8m UNTEL	325627.755	6260328.092
3\8	1.2m UNTEL	325634.491	6260322.198
3\9	1.8m UNTEL (CUSTOM PIT)	325650.523	6260336.675
3\10	1.8m UNTEL (CUSTOM PIT)	325658.99	6260337.24
3\11	1.8m UNTEL (CUSTOM PIT)	325665.2	6260344.338
3\12	1.8m UNTEL (CUSTOM PIT)	325686.757	6260368.912
3\13	2.4m UNTEL SAG (CUSTOM PIT)	325691.718	6260373.144
6\1	1.8m UNTEL	325674.181	6260413.704
1\12	1.8m UNTEL	325666.28	6260404.672
7\1	1.8m UNTEL	325702.365	6260389.042
7\2	1.8m UNTEL	325721.215	6260372.553
10\1	1.8m UNTEL	325587.18	6260374.885
11\1	1.8m UNTEL	325630.856	6260336.674
12\1	1.8m UNTEL	325658.803	6260349.935
13\1	1.8m UNTEL	325679.167	6260373.195
13\2	2.4m UNTEL SAG	325686.532	6260377.832
15\1 EX	900 x 900 GSI P	325874.713	6260231.199
15\1	2.4m UNTEL SAG	325874.259	6260241.271
15\2	900 x 900 GSI P	325864.563	6260254.225
15\3	1.8m UNTEL	325864.144	6260259.942
15\4	1.8m UNTEL	325842.835	6260277.303
15\5	1.8m UNTEL	325820.092	6260293.644
15\6	HW OUT	325794.535	6260317.883
17\1	1.8m UNTEL	325826.278	6260297.705
19\1	1.8m UNTEL	325853.386	6260278.087
20\1	2.4m UNTEL SAG	325744.304	6260349.553
100\1	1.8m UNTEL	325830.769	6260274.678
100\2	900 x 900 VGRATE	325802.891	6260283.152
100\3	2.4m UNTEL SAG	325796.339	6260286.568
100\4	1.8m UNTEL	325803.852	6260298.254
100\5	900 x 900 JUNCTION	325799.864	6260301.971
15\6	HW OUT	325794.521	6260317.849
101\1	900 x 900 JUNCTION	325877.656	6260246.531
101\2	900 x 900 JUNCTION	325870.985	6260254.047
C2\1	900 x 900 GSI P	325610.153	6260446.469
C3\1	900 x 900 GSI P	325680.522	6260382.256
C4-2\1	2.4m UNTEL SAG	325740.346	6260343.768
CP\1	900 x 900 GSI P	325659.577	6260401.568
D2\1	900 x 900 GSI P	325582.76	6260362.144
D3\1	900 x 900 GSI P	325632.595	6260317.398



These plans are referred to in certificate no. **16746** approved by:

Eric Hausfeld
Registered Certifier

Registration No: BDC 2416

Categories: Certifier – Subdivision
Certifier – Strata
Certifier – Stormwater
Certifier – Road & Drainage
Certifier – Hydraulic (stormwater)

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CONSTRUCTION ISSUE

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				PROPOSED SUBDIVISION													
				PLAN TITLE													
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DESIGN FILE S:\300001\DESIGN\12D\STAGE 2 CC\DESIGN FILE.project								ALL DIMENSIONS ARE IN METRES. DO NOT SCALE				SURVEYED ADW Johnson		DATUM GDA94 M.G.A. ZONE 56 A.H.D.		PROJECT No. 300001(2) – DISCIPLINE ENG – NUMBER 411 – REV. 1	

20 YEAR HYDROLOGICAL DESIGN																			
PIT	PIT	AREA	IMPER.	PER.	IC IMPER.	IC PER.	INTENSITY	RUNOFF	RUNOFF	CRITICAL SUM	CATCHMENT	BYPASS	TOTAL FLOW	PIT INLET	PIT BYPASS	BYPASS	Ku	GUTTER	FLOODED
NAME	DETAILS	ha	%	%	min	min	mm/hr	C IMPER.	C PER.	CA	FLOW	ARRIVING	@ PIT	FLOW	FLOW	PIT		SLOPE	DEPTH
1\1	1.8m LINTEL	0.052	90	10	5	5	195	0.945	0.5362	0.047	25	0	25	25	0	18\2	3.6	11.9	0.05
1\2	1.8m LINTEL	0.0686	90	10	5	5	195	0.945	0.5362	0.062	34	0	34	33	1	1\3	2.8	14.5	0.05
1\3	1.8m LINTEL	0.0173	90	10	5	5	195	0.945	0.5362	0.016	8	1	9	9	0	1\4	0.8	13	0.03
1\4	1.8m LINTEL	0.0118	90	10	5	5	195	0.945	0.5362	0.011	6	0	6	6	0	2\5	0.8	10.1	0.03
1\5	1.8m LINTEL	0.0299	90	10	5	5	195	0.945	0.5362	0.027	15	0	15	15	0	4\1	1.7	6.2	0.05
1\6	1.8m LINTEL	0.0249	90	10	5	5	195	0.945	0.5362	0.023	12	0	12	12	0	1\7	0.6	5	0.05
1\7	1.8m LINTEL	0.0368	90	10	5	5	195	0.945	0.5362	0.033	18	0	18	18	0	1\8	0.4	5	0.05
1\8	1.8m LINTEL	0.0205	90	10	5	5	195	0.945	0.5362	0.019	10	0	10	10	0	1\9	0.4	4.9	0.04
1\9	1.8m LINTEL	0.025	90	10	5	5	195	0.945	0.5362	0.023	12	0	12	12	0	1\10	0.4	3.3	0.05
1\10	1.8m LINTEL	0.0315	90	10	5	5	195	0.945	0.5362	0.028	15	0	15	15	0	1\11	1.7	3.9	0.05
1\11	1.8m LINTEL	0.0408	90	10	5	5	195	0.945	0.5362	0.037	20	0	20	20	0	1\12	0.3	5.7	0.05
1\12	1.8m LINTEL	0.0247	90	10	5	5	195	0.945	0.5362	0.022	12	0	12	12	0	1\13	0.9	7.1	0.04
1\13	1.8m LINTEL	0.0268	90	10	5	5	195	0.945	0.5362	0.024	13	0	13	13	0	0	5	0.05	0.49
1\14	1.8m LINTEL	0.0022	50	50	5	5	195	0.945	0.5362	0.002	1	0	1	1	0	1\15	0.4	0.8	0.02
1\15	1.8m LINTEL	0.026	90	10	5	5	195	0.945	0.5362	0.024	13	0	13	13	0	1\16	0.4	0.8	0.06
1\16	2.4m LINTEL SAG	0.0324	90	10	5	5	195	0.945	0.5362	0.029	16	0	16	16	0	20\1	0.2	0.1	0.03
1\17	1.8m LINTEL	0.0498	90	10	5	5	195	0.945	0.5362	0.045	24	0	24	24	0	C4-2\1	0.6	0.8	0.07
1\18	HEADWALL OUTLET	90	5	5								0							
3\1	900 x 900 GSIP	90	10	5	5	0				0	0	0	0	0	0	0			
3\2	1.8m LINTEL	0.0067	90	10	5	5	195	0.945	0.5362	0.006	3	0	3	3	0	3\3	0.7	1.8	0.03
3\3	1.8m LINTEL	0.0152	90	10	5	5	195	0.945	0.5362	0.014	7	0	7	7	0	3\4	0.6	6.9	0.03
3\4	1.8m LINTEL	0.0219	90	10	5	5	195	0.945	0.5362	0.02	11	0	11	11	0	3\5	0.7	6.9	0.04
3\5	1.8m LINTEL	0.0193	90	10	5	5	195	0.945	0.5362	0.017	9	0	9	9	0	3\6	0.6	6.5	0.04
3\6	1.8m LINTEL	0.0273	90	10	5	5	195	0.945	0.5362	0.025	13	0	13	13	0	3\7	0.4	5	0.05
3\7	1.8m LINTEL	0.0327	90	10	5	5	195	0.945	0.5362	0.03	16	0	16	16	0	3\8	0.4	3.3	0.05
3\8	1.2m LINTEL	0.0071	90	10	5	5	195	0.945	0.5362	0.006	3	0	3	3	0	3\10	1.6	2.1	0.03
3\9	1.8m LINTEL	0.0242	90	10	5	5	195	0.945	0.5362	0.022	12	0	12	12	0	12\1	0.6	3.7	0.05
3\10	1.8m LINTEL	0.0212	90	10	5	5	195	0.945	0.5362	0.019	10	0	10	10	0	3\11	0.6	4	0.04
3\11	1.8m LINTEL	0.0056	90	10	5	5	195	0.945	0.5362	0.005	3	0	3	3	0	3\12	0.6	4.3	0.03
3\12	1.8m LINTEL	0.0205	90	10	5	5	195	0.945	0.5362	0.019	10	0	10	10	0	3\13	0.3	2	0.05
3\13	2.4m LINTEL SAG	0.0157	90	10	5	5	195	0.945	0.5362	0.014	8	0	8	8	0	1\14	0.5	0.5	0.02
6\1	1.8m LINTEL	0.0723	90	10	5	5	195	0.945	0.5362	0.065	35	1	36	35	1	7\1	3.6	7.1	0.06
7\1	1.8m LINTEL	0.0422	90	10	5	5	195	0.945	0.5362	0.038	21	0	21	21	0	7\2	3.6	1.3	0.07
7\2	1.8m LINTEL	0.0263	90	10	5	5	195	0.945	0.5362	0.024	13	0	13	13	0	20\1	1.9	0.8	0.06
10\1	1.8m LINTEL	0.0315	90	10	5	5	195	0.945	0.5362	0.029	15	0	15	15	0	11\1	3.6	5	0.05
11\1	1.8m LINTEL	0.0489	90	10	5	5	195	0.945	0.5362	0.044	24	0	24	24	0	3\9	3.6	3.5	0.06
12\1	1.8m LINTEL	0.0128	90	10	5	5	195	0.945	0.5362	0.012	6	0	6	6	0	13\1	3.6	4.4	0.03
13\1	1.8m LINTEL	0.0272	90	10	5	5	195	0.945	0.5362	0.025	13	0	13	13	0	13\2	3.6	2.3	0.05
13\2	2.4m LINTEL SAG	0.0273	90	10	5	5	195	0.945	0.5362	0.025	13	0	13	13	0	3\13	0.9	0.5	0.02
15\1 EX	900 x 900 GSIP	0.0428	90	10	5	5	195	0.945	0.5362	0.039	21	0	21	21	0	3.6			
15\1	2.4m LINTEL SAG	0.0092	90	10	5	5	195	0.945	0.5362	0.008	4	0	4	4	0	1.2	3.6	0.01	
15\2	900 x 900 GSIP	0.012	50	50	5	5	195	0.945	0.5362	0.009	5	0	5	5	0	0.6	1		
15\3	1.8m LINTEL	0.0271	90	10	5	5	195	0.945	0.5362	0.024	13	0	13	13	0	15\4	0.6	1.4	0.06
15\4	1.8m LINTEL	0.0275	90	10	5	5	195	0.945	0.5362	0.025	13	0	13	13	0	15\5	0.3	1	
15\5	1.8m LINTEL	0.0176	90	10	5	5	195	0.945	0.5362	0.016	9	0	9	9	0	1\17	1.5	0.9	0.05
15\6	HW OUT	90	5	5							0								
17\1	1.8m LINTEL	0.0473	90	10	5	5	195	0.945	0.5362	0.043	23	0	23	23	0	20\1	3.6	0.9	0.07
20\1	2.4m LINTEL SAG	0.1155	90	10	5	5	195	0.945	0.5362	0.104	57	0	57	57	0	3.6	0.1	0.06	
100\1	1.8m LINTEL	0.0079	100	0	5	5	195	0.945	0	0.007	4	0	4	4	0	100\2	3.6	4	0.03
100\2	900 x 900 VGRATE	0.0538	80	20	5	5	195	0.945	0.5362	0.046	25	0	25	24	1	100\3	2	1.8	0.05
100\3	2.4m LINTEL SAG	0.0204	95	5	5	5	195	0.945	0.5362	0.019	10	1	11	11	0	0	2.1	2.3	0.02
100\4	1.8m LINTEL	0.0007	90	10	5	5	195	0.945	0.5362	0.001	0	0	0	0	0	0	2.1	5.8	0
100\5	900 x 900 JUNCTION	0	90	10	5	5	0	0	0	0	0	0	0	0	0	0	2.1	0	0
15\6	HW OUT	90	5	5							0								
101\1	900 x 900 JUNCTION	90	10	5	5	0				0	0	0	0	0	0	0	0		
101\2	900 x 900 JUNCTION	90	10	5	5	0				0	0	0	0	0	0	0	0.2	1.4	
C2\1	900 x 900 GSIP	90	10	5	5	0				0	0	0	0	0	0	0	0		
C3\1	900 x 900 GSIP	90	10	5	5	0				0	0	0	0	0	0	0	0		
C4\1	900 x 900 JUNCTION	90	10	5	5	0				0	0	0	0	0	0	0	0		
CP\1	900 x 900 GSIP	0.334	10	90	5	8	165	0.945	0.5362	0.193	88	0	88	88	0	4.1			
D2\1	900 x 900 GSIP	90	10	5	5	0				0	0	0	0	0	0	0	0		
D3\1	900 x 900 GSIP	90	10	5	5	0				0	0	0	0	0	0	0	0		



These plans are referred to in certificate no. **16746** approved by:

Eric Hausfeld
Registered Certifier

Registration No: BDC 2416

Categories: Certifier – Subdivision
Certifier – Strata
Certifier – Stormwater
Certifier – Road & Drainage
Certifier – Hydraulic (stormwater)

Land Development Certificates
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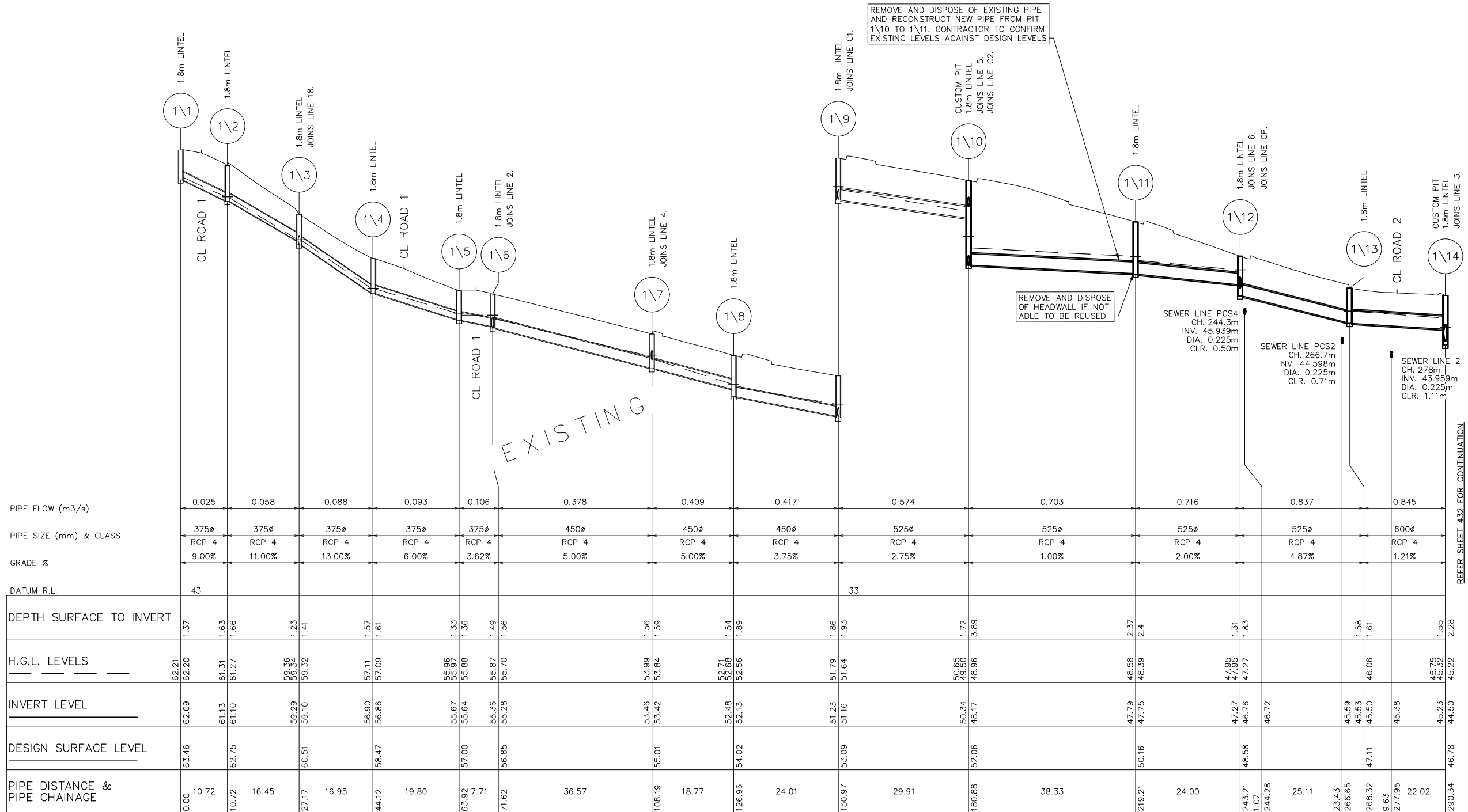
20 YEAR HYDRAULIC DESIGN												
REACH	TYPE	LENGTH	DIA.	U/S IL	D/S IL	PIPE	PIPE	PIPE	U/S HGL	D/S HGL	GRADE HGL	U/S PIT
						GRADE	FLOW	VELOCITY				Ku
		m	mm	m	m	%	L/s	m/s	m	m	%	
1\1 to 1\2	RCP CLASS 4	10.7	375	62.09	61.13	9	25	2.9	62.2	61.31	8.35	3.6
1\2 to 1\3	RCP CLASS 4	16.5	375	61.1	59.29	11	58	4	61.27	59.36	11.63	2.8
1\3 to 1\4	RCP CLASS 4	16.9	375	59.1	56.9	13	88	4.8	59.32	57.11	13.01	0.8
1\4 to 1\5	RCP CLASS 4	19.8	375	56.86	55.67	6	93	3.7	57.09	55.96	5.68	0.8
1\5 to 1\6	RCP CLASS 4	7.7	375	55.64	55.36	3.62	106	3.2	55.88	55.87	0.08	1.7
1\6 to 1\7	RCP CLASS 4	36.6	450	55.28	53.46	5	378	4.9	55.7	53.99	4.66	0.6
1\7 to 1\8	RCP CLASS 4	18.8	450	53.42	52.48	5	409	5	53.84	52.71	6.02	0.4
1\8 to 1\9	RCP CLASS 4	24	450	52.13	51.23	3.75	417	4.5	52.56	51.79	3.2	0.4
1\9 to 1\10	RCP CLASS 4	29.9	525	51.16	50.34	2.75	574	4.3	51.64	50.65	3.33	0.4
1\10 to 1\11	RCP CLASS 4	38.3	525	48.17	47.79	1	703	3.2	48.96	48.58	1	1.7
1\11 to 1\12	RCP CLASS 4	24	525	47.75	47.27	2	716	3.9	48.39	47.95	1.86	0.3
1\12 to 1\13	RCP CLASS 4	25.1	525	46.76	45.53	4.87	837	5.8	47.27	46.06	4.82	0.9
1\13 to 1\14	RCP CLASS 4	22	600	45.5	45.23	1.21	845	3.2	46.06	45.75	1.4	0
1\14 to 1\15	RCP CLASS 4	26	900	44.5	44.24	1	1451	3.6	45.22	44.88	1.3	0.4
1\15 to 1\16	RCP CLASS 4	23.1	1000	44.09	43.86	1	1579	3.7	44.81	44.72	0.39	0.4
1\16 to 1\17	RCP CLASS 4	13.8	1200	43.71	43.57	1	1635	3.7	44.7	44.71	-0.07	0.2
1\17 to 1\18	RCP CLASS 4	31.5	1200	41.77	41.46	1	1650	3.7	44.64	44.6	0.14	0.6
												0.6
3\1 to 3\2	RCP CLASS 4	8.8	375	59.59	59.24	4	70	2.9	59.79	59.42	4.15	0
3\2 to 3\3	RCP CLASS 4	25.8	375	59.21	57.85	5.25	73	3.3	59.4	58.04	5.28	0.7
3\3 to 3\4	RCP CLASS 4	37.1	375	57.82	55.31	6.77	81	3.7	58.02	55.56	6.65	0.6
3\4 to 3\5	RCP CLASS 4	32.1	375	55.27	53.19	6.5	114	4	55.52	53.42	6.56	0.7
3\5 to 3\6	RCP CLASS 4	45.6	375	52.89	50.61	5	274	4.5	53.24	50.95	5.02	0.6
3\6 to 3\7	RCP CLASS 4	55.3	450	50.42	47.66	5	370	4.9	50.84	48.39	4.43	0.4
3\7 to 3\8	RCP CLASS 4	9	450	47.62	47.36	3	404	4.1	48.26	48.14	1.34	0.4
3\8 to 3\9	RCP CLASS 4	21.6	525	47.28	46.74	2.5	478	4	47.74	47.32	1.93	1.6
3\9 to 3\10	RCP CLASS 4	8.5	525	46.71	46.49	2.5	488	4	47.17	46.98	2.28	0.6
3\10 to 3\11	RCP CLASS 4	9.4	600	46.42	46.18	2.5	496	4	46.88	46.71	1.8	0.6
3\11 to 3\12	RCP CLASS 4	32.7	600	46.15	45.33	2.5	504	4	46.61	45.82	2.43	0.6
3\12 to 3\13	RCP CLASS 4	6.5	600	45.3	45.13	2.5	511	4	45.76	45.43	5.16	0.3
3\13 to 1\14	RCP CLASS 4	11.9	675	44.85	44.73	1	614	3	45.35	45.32	0.21	0.5
												1.7
6\1 to 1\12	RCP CLASS 4	12	375	47.34	47.22	1	35	1.5	47.95	47.95	0.03	3.6
												0.9
7\1 to 7\2	RCP CLASS 4	25	375	44.93	44.68	1	21	1.3	45.04	44.88	0.61	3.6
7\2 to 1\15	RCP CLASS 4	15.9	375	44.65	44.49	1	34	1.4	44.88	44.88	-0.02	1.9
												0.6
10\1 to 3\6	RCP CLASS 4	10.4	375	50.8	50.61	1.85	15	1.4	50.95	50.95	-0.04	3.6
												0.4
11\1 to 3\7	RCP CLASS 4	9.1	375	48.06	47.97	1	24	1.3	48.39	48.39	0	3.6
												0.4
12\1 to 3\11	RCP CLASS 4	8.5	375	46.57	46.49	1	6	0.9	46.71	46.71	-0.01	3.6
												0.6
13\1 to 13\2	RCP CLASS 4	8.7	375	45.59	45.5	1	13	1.1	45.67	45.56	1.22	3.6
13\2 to 3\13	RCP CLASS 4	7	375	44.95	44.88	1	99	1.9	45.44	45.43	0.21	0.9
												1.6
15\1 EX to 15\1	RCP CLASS 4	10.1	375	47.2	46.92	2.72	21	1.8	47.3	47.01	2.93	3.6
15\1 to 15\2	RCP CLASS 4	16.2	375	46.89	46.73	1	25	1.3	47	46.82	1.14	1.2
15\2 to 15\3	RCP CLASS 4	5.7	375	46.69	46.64	1	30	1.4	46.82	46.73	1.53	0.6
15\3 to 15\4	RCP CLASS 4	27.5	525	44.02	43.75	1	573	2.6	45.99	45.66	1.2	0.6
15\4 to 15\5	RCP CLASS 4	28	525	43.72	43.44	1	585	2.7	45.56	45.21	1.25	0.3
15\5 to 15\6	RCP CLASS 4	35.2	525	42.59	41.47	3.18	614	4.6	44.58	44.1	1.37	1.5
17\1 to 15\5	RCP CLASS 4	7.4	375	46.08	46	1	23	1.3	46.19	46.09	1.36	3.6
												0.8
19\1 to 15\4	RCP CLASS 4	10.6	375	46.41	46.3	1	12	1.1	46.65	46.65	0	3.6
												0.3
20\1 to 1\16	RCP CLASS 4	7	375	45.28	45.21	1	56	1.7	45.45	45.34	1.6	3.6
100\1 to 100\2	RCP CLASS 4	29.1	375	45.17	44.87	1	4	0.8	45.46	45.46	0	3.6
100\2 to 100\3	RCP CLASS 4	7.4	375	44.84	44.77	1	148	2.1	45.28	45.24	0.47	2
100\3 to 100\4	RCP CLASS 4	13.9	375	44.73	44.31	3	159	3.3	45.02	44.48	3.89	2.1
100\4 to 100\5	RCP CLASS 4	5.5	375	42.69	42.61	1	159	2.1	42.98	42.87	1.98	2.1
100\5 to 15\6	RCP CLASS 4	16.8	375	42.14	41.47	4	159	3.6	42.43	41.63	4.82	2.1
101\1 to 101\2	RCP CLASS 4	10	525	44.27	44.17	1	530	2.7	46.47	46.36	1.03	0
101\2 to 15\3	RCP CLASS 4	9	525	44.14	44.05	1	530	2.7	46.3	46.2	1.03	0.2
												0.6
C2\1 to 1\10	RCP CLASS 4	9.2	375	48.3	48.21	1	72	1.8	49.47	49.46	0.12	0
												1.7
C3\1 to 13\2	RCP CLASS 4	7.5	375	45.06	44.99	1	72	1.8	45.49	45.48	0.12	0
												0.9
C4\1 to 1\15	RCP CLASS 4	5.6	375	44.8	44.74	1	94	1.9	45.03	44.92	1.93	0
												0.4
CP\1 to 10\2	RCP CLASS 4	7.4	375	47.22	47.14	1	88	1.9	47.96	47.95	0.17	4.1
												0.9
												0.6
D2\1 to 3\6	RCP CLASS 4	4.1	375	50.5	50.46	1	71	1.8	50.96	50.95	0.11	0
												0.4
D3\1 to 3\8	RCP CLASS 4	5.2	375	47.41	47.36	1	71	1.8	48.15	48.14	0.11	0

100 YEAR HYDROLOGICAL DESIGN																								
PIT	PIT	AREA	IMPER.	PER.	tc IMPER.	tc PER.	INTENSITY	RUNOFF	RUNOFF	CRITICAL SUM	CATCHMENT	BYPASS	TOTAL FLOW	PIT INLET	PIT BYPASS	BYPASS	K _a	GUTTER	FLOODED	FLOW	VELOCITY _x	MAX POND	CHOKE	NOTES
NAME	DETAILS																							
		ha	%	%	min	min	mm/hr			CA	FLOW	ARRIVING	@ PIT	FLOW	FLOW	PIT		%	m	m		m	1=NONE	
1\1	1.8m LINTEL	0.052	90	10	5	5	247	1	0.6128	0.05	34	0	34	27	8	1\1\2	3.6	11.9	0.06	0.97	0.1		0.8	
1\2	1.8m LINTEL	0.0686	90	10	5	5	247	1	0.6128	0.066	45	0	45	34	12	1\3	2.7	14.5	0.06	1.01	0.12		0.8	
1\3	1.8m LINTEL	0.0173	90	10	5	5	247	1	0.6128	0.017	11	12	23	18	5	1\4	1.1	13	0.05	0.71	0.08		0.8	
1\4	1.8m LINTEL	0.0118	90	10	5	5	247	1	0.6128	0.011	8	4	12	10	2	2\5	0.8	10.1	0.04	0.44	0.06		0.8	
1\5	1.8m LINTEL	0.0299	90	10	5	5	247	1	0.6128	0.029	20	4	24	19	5	4\1	1.7	6.2	0.06	1.06	0.06		0.8	
1\6	1.8m LINTEL	0.0249	90	10	5	5	247	1	0.6128	0.024	16	0	16	13	3	1\7	0.5	5	0.05	0.93	0.05		0.8	
1\7	1.8m LINTEL	0.0368	90	10	5	5	247	1	0.6128	0.035	24	4	28	22	6	1\8	0.4	5	0.06	1.23	0.06		0.8	
1\8	1.8m LINTEL	0.0205	90	10	5	5	247	1	0.6128	0.02	14	5	19	15	4	1\9	0.4	4.9	0.05	1.02	0.05		0.8	
1\9	1.8m LINTEL	0.025	90	10	5	5	247	1	0.6128	0.024	17	3	20	16	4	1\10	0.4	3.3	0.06	1.18	0.05		0.8	
1\10	1.8m LINTEL	0.0315	90	10	5	5	247	1	0.6128	0.03	21	4	25	20	5	1\11	1.6	3.9	0.06	1.23	0.06		0.8	
1\11	1.8m LINTEL	0.0408	90	10	5	5	247	1	0.6128	0.039	27	5	32	25	7	1\12	0.3	5.7	0.06	1.3	0.07		0.8	
1\12	1.8m LINTEL	0.0247	90	10	5	5	247	1	0.6128	0.024	16	7	23	-1	25	1\13	0.8	7.1	0.05	1	0.07		0.8	
1\13	1.8m LINTEL	0.0268	90	10	5	5	247	1	0.6128	0.026	18	24	42	42	0		0	5	0.07	0.84	0.11		0.8	
1\14	1.8m LINTEL	0.0022	50	50	5	5	247	1	0.6128	0.002	1	0	1	1	0	1\15	0.4	0.8	0.03	0.3	0.01		0.8	
1\15	1.8m LINTEL	0.026	90	10	5	5	247	1	0.6128	0.025	17	0	17	14	3	1\16	0.4	0.8	0.07	1.57	0.03		0.8	
1\16	2.4m LINTEL SAG	0.0324	90	10	5	5	247	1	0.6128	0.031	21	4	25	25	0	20\1	0.2	0.1	0.05			0.12	0.5	
1\17	1.8m LINTEL	0.0446	90	10	5	5	247	1	0.6128	0.043	29	0	29	23	7	C4-2\1	0.6	0.8	0.08	2.01	0.04		0.8	
1\18	HEADWALL OUTLET		90		5	5																		
3\1	900x 900 GSIP		90	10	5	5	0			0	0	0	0	0	0		0							0.8
3\2	1.8m LINTEL	0.0067	90	10	5	5	247	1	0.6128	0.006	4	0	4	4	1	3\3	0.7	1.8	0.04	0.41	0.02		0.8	
3\3	1.8m LINTEL	0.0152	90	10	5	5	247	1	0.6128	0.015	10	1	11	9	2	3\4	0.5	6.9	0.04	0.45	0.05		0.8	
3\4	1.8m LINTEL	0.0219	90	10	5	5	247	1	0.6128	0.021	14	3	17	13	3	3\5	0.6	6.9	0.05	0.79	0.06		0.8	
3\5	1.8m LINTEL	0.0193	90	10	5	5	247	1	0.6128	0.019	13	3	16	13	3	3\6	0.5	6.5	0.05	0.79	0.05		0.8	
3\6	1.8m LINTEL	0.0273	90	10	5	5	247	1	0.6128	0.026	18	3	21	17	4	3\7	0.4	5	0.05	1.05	0.06		0.8	
3\7	1.8m LINTEL	0.0327	90	10	5	5	247	1	0.6128	0.031	22	4	26	0	26	3\8	0.2	3.3	0.06	1.34	0.06		0.8	
3\8	1.2m LINTEL	0.0071	90	10	5	5	247	1	0.6128	0.007	5	25	30	23	8	3\10	1.3	2.1	0.07	1.58	0.06		0.8	
3\9	1.8m LINTEL	0.0242	90	10	5	5	247	1	0.6128	0.023	16	9	25	20	5	12\1	0.6	3.7	0.06	1.26	0.06		0.8	
3\10	1.8m LINTEL	0.0212	90	10	5	5	247	1	0.6128	0.02	14	8	22	17	4	3\11	0.6	4	0.06	1.14	0.05		0.8	
3\11	1.8m LINTEL	0.0056	90	10	5	5	247	1	0.6128	0.005	4	4	8	6	2	3\12	0.6	4.3	0.04	0.44	0.04		0.8	
3\12	1.8m LINTEL	0.0205	90	10	5	5	247	1	0.6128	0.02	14	1	15	12	3	3\13	0.3	2	0.06	1.26	0.04		0.8	
3\13	2.4m LINTEL SAG	0.0157	90	10	5	5	247	1	0.6128	0.015	10	3	13	13	0	1\14	0.5	0.5	0.04			0.05	0.5	
6\1	1.8m LINTEL	0.0723	90	10	5	5	247	1	0.6128	0.07	48	11	59	2	58	7\1	3.6	7.1	0.07	1.7	0.1		0.8	
7\1	1.8m LINTEL	0.0422	90	10	5	5	247	1	0.6128	0.041	28	58	86	54	32	7\2	3.6	1.3	0.1	2.92	0.08		0.8	
7\2	1.8m LINTEL	0.0263	90	10	5	5	247	1	0.6128	0.025	17	32	49	35	14	20\1	1.7	0.8	0.09	2.47	0.05		0.8	
10\1	1.8m LINTEL	0.0315	90	10	5	5	247	1	0.6128	0.03	21	6	27	21	5	1\1\1	3.6	5	0.06	1.23	0.06		0.8	
11\1	1.8m LINTEL	0.0489	90	10	5	5	247	1	0.6128	0.047	32	6	38	29	9	3\9	3.6	3.5	0.07	1.59	0.07		0.8	
12\1	1.8m LINTEL	0.0128	90	10	5	5	247	1	0.6128	0.012	8	6	14	11	3	13\1	3.6	4.4	0.05	0.77	0.05		0.8	
13\1	1.8m LINTEL	0.0272	90	10	5	5	247	1	0.6128	0.026	18	3	21	17	4	13\2	3.6	2.3	0.06	1.36	0.04		0.8	
13\2	2.4m LINTEL SAG	0.0273	90	10	5	5	247	1	0.6128	0.026	18	4	22	22	0	3\13	0.7	0.5	0.05			0.06	0.5	
15\1	2.4m LINTEL SAG	0.0605	90	10	5	5	247	1	0.6128	0.058	40	0	40	40	0		3.6	2.6	0.07			0.15	0.5	
15\2	900 x 900 GSIP	0.0123	50	50	5	5	247	1	0.6128	0.01	7	0	7	7	0		0.6	1					0.8	
15\3	1.8m LINTEL	0.0245	90	10	5	5	247	1	0.6128	0.024	16	0	16	13	3	15\4	0.6	1.4	0.06	1.31	0.04		0.8	
15\4	1.8m LINTEL	0.0275	90	10	5	5	247	1	0.6128	0.026	18	3	21	17	4	15\5	0.3	1					0.8	
15\5	1.8m LINTEL	0.0227	90	10	5	5	247	1	0.6128	0.022	15	4	19	16	4		1.5	0.9	0.07	1.58	0.04		0.8	
15\6	HW OUT		90		5	5																		
17\1	1.8m LINTEL	0.0226	90	10	5	5	247	1	0.6128	0.022	15	3	18	15	4	20\1	3.6	0.9	0.07	1.52	0.03		0.8	
19\1	1.8m LINTEL	0.0251	90	10	5	5	247	1	0.6128	0.024	17	0	17	13	3	17\1	3.6	1.1	0.06	1.42	0.03		0.8	
20\1	2.4m LINTEL SAG	0.1132	90	10	5	5	247	1	0.6128	0.109	75	24	99	92	7		3.6	0.1	0.12			0.12	0.5	
100\1	1.8m LINTEL	0.0079	100	0	5	5	247	1		0.008	5	0	5	4	1	100\2	3.6	4	0.03	0.41	0.03		0.8	
100\2	900 x 900 VGRATE	0.0538	80	20	5	5	247	1	0.6128	0.05	34	1	35	27	8	100\3	2	1.8	0.06	2.3	0.04		0.8	
100\3	2.4m LINTEL SAG	0.0204	95	5	5	5	247	1	0.6128	0.02	14	8	22	22	0		1.9	2.3	0.05			0.15	0.5	
100\4	1.8m LINTEL	0.0007	90	10	5	5	247	1	0.6128	0.001	0	0	0	0	0		1.9	5.8					0.8	
100\5	900 x 900 JUNCTION		90	10	5	5	0			0	0	0	0	0	0		1.9						0.8	
15\6	HW OUT		90		5	5																		
101\1	900 x 900 JUNCTION		90	10	5	5	0			0	0	0	0	0	0		0						0.8	
101\2	900 x 900 JUNCTION		90	10	5	5	0			0	0	0	0	0	0		0.2	1.4					0	

100 YEAR HYDRAULIC DESIGN												
REACH	TYPE	LENGTH	DIA.	U/S IL	D/S IL	PIPE	PIPE	PIPE	U/S HGL	D/S HGL	GRADE HGL	U/S PIT
						GRADE	FLOW	VELOCITY				
		m	mm	m	m	%	U/s	m/s	m	m	%	Ku
1\1 to 1\2	RCPC CLASS 4	10.7	375	62.09	61.13	9	27	3	62.21	61.32	8.33	3.6
1\2 to 1\3	RCPC CLASS 4	16.5	375	61.1	59.29	11	60	4.1	61.27	59.4	11.39	2.7
1\3 to 1\4	RCPC CLASS 4	16.9	375	59.1	56.9	13	111	5.1	59.34	57.17	12.85	1.1
1\4 to 1\5	RCPC CLASS 4	19.8	375	56.86	55.67	6	120	3.9	57.12	56.19	4.67	0.8
1\5 to 1\6	RCPC CLASS 4	7.7	375	55.64	55.36	3.62	136	3.4	56.06	56.02	0.4	1.7
1\6 to 1\7	RCPC CLASS 4	36.6	450	55.28	53.46	5	527	5.3	55.72	54.13	4.36	0.5
1\7 to 1\8	RCPC CLASS 4	18.8	450	52.42	52.48	5	566	5.4	53.86	52.82	5.55	0.4
1\8 to 1\9	RCPC CLASS 4	24	450	52.13	51.23	3.75	578	4.8	52.58	51.91	2.77	0.4
1\9 to 1\10	RCPC CLASS 4	29.9	525	51.16	50.34	2.75	770	4.5	51.67	50.72	3.37	0.4
1\10 to 1\11	RCPC CLASS 4	38.3	525	48.17	47.79	1	963	4.4	49.5	49.5	0	1.6
1\11 to 1\12	RCPC CLASS 4	24	525	47.75	47.27	2	979	4.5	49.26	48.58	2.85	0.3
1\12 to 1\13	RCPC CLASS 4	25.1	525	46.76	45.53	4.87	1103	6.1	47.44	46.34	4.39	0.8
1\13 to 1\14	RCPC CLASS 4	22	600	45.45	45.23	1.21	1137	4	46.34	45.82	2.37	0
1\14 to 1\15	RCPC CLASS 4	26	900	44.5	44.24	1	2086	3.8	45.54	45.3	0.95	0.4
1\15 to 1\16	RCPC CLASS 4	23.1	1050	44.09	43.86	1	2341	4	45.15	45.02	0.54	0.4
1\16 to 1\17	RCPC CLASS 4	13.8	1200	43.71	43.57	1	2438	4.1	44.98	44.94	0.29	0.2
1\17 to 1\18	RCPC CLASS 4	31.5	1200	41.77	41.46	1	2452	4.1	44.79	44.7	0.29	0.6
												0.5
3\1 to 3\2	RCPC CLASS 4	8.8	375	59.59	59.24	4	137	3.5	59.87	59.54	3.73	0
3\2 to 3\3	RCPC CLASS 4	25.8	375	59.21	57.85	5.25	141	3.9	59.48	58.15	5.18	0.7
3\3 to 3\4	RCPC CLASS 4	37.1	375	57.82	55.31	6.77	149	4.4	58.1	55.67	6.56	0.5
3\4 to 3\5	RCPC CLASS 4	32.1	375	55.27	53.19	6.5	187	4.6	55.59	53.69	6.09	0.6
3\5 to 3\6	RCPC CLASS 4	45.6	375	52.89	50.61	5	427	4.9	53.26	51.15	4.63	0.5
3\6 to 3\7	RCPC CLASS 4	55.3	450	50.42	47.66	5	575	5.4	50.88	49.4	2.68	0.4
3\7 to 3\8	RCPC CLASS 4	9	450	47.62	47.36	3	597	4.3	49.25	48.99	2.89	0.2
3\8 to 3\9	RCPC CLASS 4	21.6	525	47.28	46.74	2.5	732	4.3	48.21	47.79	1.94	1.3
3\9 to 3\10	RCPC CLASS 4	8.5	525	46.71	46.49	2.5	748	4.3	47.43	47.26	0.203	0.6
3\10 to 3\11	RCPC CLASS 4	9.4	600	46.42	46.18	2.5	764	4.4	47.03	46.93	1.06	0.6
3\11 to 3\12	RCPC CLASS 4	32.7	600	46.15	45.33	2.5	779	4.4	46.7	46.28	1.29	0.6
3\12 to 3\13	RCPC CLASS 4	6.5	600	45.3	45.13	2.5	787	4.4	46.16	46.09	1.12	0.3
3\13 to 3\14	RCPC CLASS 4	11.9	675	44.85	44.73	1	956	3.2	45.89	45.78	0.9	0.5
												1.6
6\1 to 1\12	RCPC CLASS 4	12	375	47.34	47.22	1	2	0.6	48.58	48.58	0	3.6
												0.8
7\1 to 7\2	RCPC CLASS 4	25	375	44.93	44.68	1	54	1.6	45.4	45.38	0.07	3.6
7\2 to 1\15	RCPC CLASS 4	15.9	375	44.65	44.49	1	88	1.9	45.32	45.3	0.17	1.7
												0.5
10\1 to 3\6	RCPC CLASS 4	10.4	375	50.8	50.61	1.85	21	1.6	51.15	51.15	0.01	3.6
												0.4
11\1 to 3\7	RCPC CLASS 4	9.1	375	48.06	47.97	1	29	1.4	49.4	49.4	0.02	3.6
												0.2
12\1 to 3\11	RCPC CLASS 4	8.5	375	46.57	46.49	1	11	1	46.93	46.93	0	3.6
												0.6
13\1 to 13\2	RCPC CLASS 4	8.7	375	45.59	45.5	1	17	1.2	46.2	46.2	0.01	3.6
13\2 to 3\13	RCPC CLASS 4	7	375	44.95	44.88	1	161	2.1	46.13	46.09	0.56	0.7
												1.3
15\1 EX to 15\1	RCPC CLASS 4	10.1	375	47.2	46.92	2.72	28	2	47.32	47.03	2.88	3.6
15\1 to 15\2	RCPC CLASS 4	16.2	375	46.89	46.73	1	34	1.4	47.02	46.84	1.12	1.2
15\2 to 15\3	RCPC CLASS 4	5.7	375	46.69	46.64	1	40	1.5	46.84	46.74	1.62	0.6
15\3 to 15\4	RCPC CLASS 4	27.5	525	44.02	43.75	1	584	2.7	46.5	46.16	1.24	0.6
15\4 to 15\5	RCPC CLASS 4	28	525	43.72	43.44	1	600	2.8	46.05	45.68	1.31	0.3
15\5 to 15\6	RCPC CLASS 4	35.2	525	42.59	41.47	3.18	634	4.6	45.02	44.5	1.46	1.5
17\1 to 15\5	RCPC CLASS 4	7.4	375	46.08	46	1	24	1.3	46.19	46.09	1.37	3.6
												1.1
19\1 to 15\4	RCPC CLASS 4	10.6	375	46.41	46.3	1	13	1.1	46.94	46.94	0	3.6
												0.3
20\1 to 1\16	RCPC CLASS 4	7	375	45.28	45.21	1	92	1.9	45.5	45.38	1.74	3.6
100\1 to 100\2	RCPC CLASS 4	29.1	375	45.17	44.87	1	4	0.8	45.94	45.94	0	3.6
100\2 to 100\3	RCPC CLASS 4	7.4	375	44.84	44.77	1	211	2.2	45.57	45.5	0.95	2
100\3 to 100\4	RCPC CLASS 4	13.9	375	44.73	44.31	3	233	3.6	45.07	44.53	3.92	1.9
100\4 to 100\5	RCPC CLASS 4	5.5	375	42.69	42.63	1	233	2.1	43.04	42.98	1.18	1.9
100\5 to 15\6	RCPC CLASS 4	16.8	375	42.14	41.47	4	233	4	42.48	41.67	4.88	1.9
101\1 to 101\2	RCPC CLASS 4	10	525	44.27	44.17	1	530	2.7	46.99	46.89	1.03	0
101\2 to 15\3	RCPC CLASS 4	9	525	44.14	44.05	1	530	2.7	46.82	46.72	1.03	0.2
												0.6
C2\1 to 1\10	RCPC CLASS 4	9.2	375	48.3	48.21	1	122	2	49.5	49.5	0	0
												1.6
C3\1 to 13\2	RCPC CLASS 4	7.5	375	45.06	44.99	1	122	2	46.22	46.2	0.32	0
												0.7
C4\1 to 1\15	RCPC CLASS 4	5.6	375	44.8	44.74	1	169	2.2	45.33	45.3	0.61	0
												0.4
CP\1 to 1\12	RCPC CLASS 4	7.4	375	47.22	47.14	1	140	2.1	48.61	48.58	0.43	2.4
												0.8
												0.5
D2\1 to 3\6	RCPC CLASS 4	4.1	375	50.5	50.46	1	114	2	51.16	51.15	0.28	0
												0.4
D3\1 to 3\8	RCPC CLASS 4	5.2	375	47.41	47.36	1	114	2	49	48.99	0.28	0

NOTES: -

1. ALL STORMWATER PITS TO BE CONSTRUCTED IN ACCORDANCE WITH RYDE COUNCILS ENGINEERING CONSTRUCTION SPECIFICATION.
2. ALL PITS DEEPER THAN 1.0m TO HAVE STEP IRONS.
3. ALL STORMWATER PIPE CLASSES ARE TO COMPLY WITH COUNCILS DESIGN AND CONSTRUCTION SPECIFICATIONS. IF THERE ARE DISCREPANCIES BETWEEN COUNCILS' SPECIFICATIONS AND THE APPROVED CONSTRUCTION CERTIFICATE PLANS PLEASE NOTIFY THE SUPERINTENDENT IMMEDIATELY. IT IS THE CONTRACTORS RESPONSIBILITY TO USE THE APPROPRIATE CONSTRUCTION METHODOLOGY TO COMPACT AROUND/OVER STORMWATER PIPES AND ENSURE NO CRACKING OF THE STORMWATER PIPES OCCURS.
4. PITS DEEPER THAN 2.5m TO BE CONSTRUCTED IN ACCORDANCE WITH STRUCTURAL ENGINEERS DESIGN.
5. REFER TO DRAWINGS PREPARED BY RARI FOR SEWER DETAILS.
6. ALL GRATES TO HAVE CHILD PROOF LOCK DOWN SYSTEM INSTALLED.



REFER SHEET 432 FOR CONTINUATION

LINE 1

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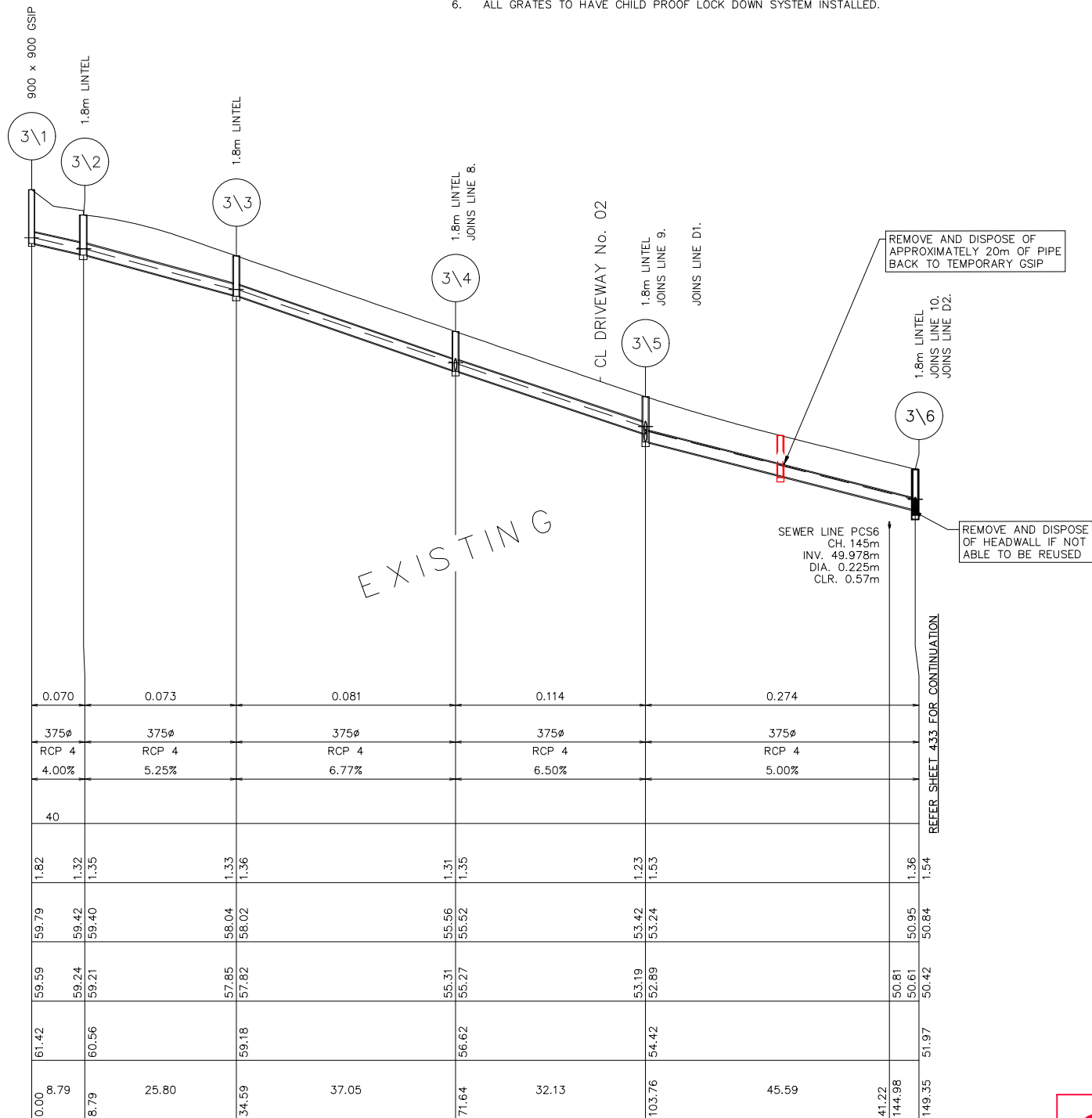
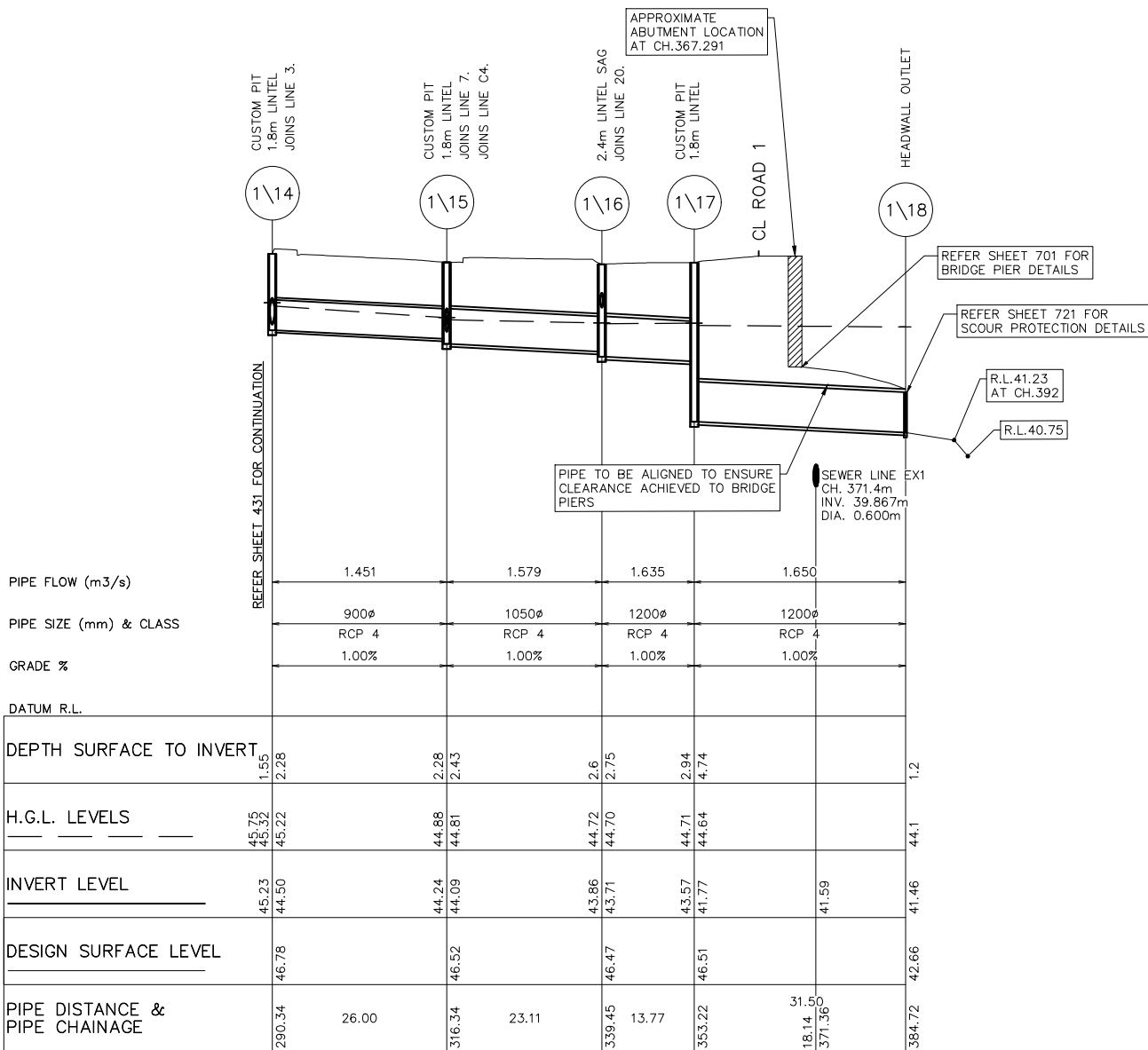
These plans are referred to in certificate no. **16746** approved by:
Eric Hausfeld
Registered Certifier
Registration No: BDC 2416
Categories:
Certifier - Subdivision
Certifier - Strata
Certifier - Stormwater
Certifier - Road & Drainage
Certifier - Hydraulic (stormwater)



CONSTRUCTION ISSUE

REV.	DATE	AMENDMENT	DESIGN	DRAWN	CHECKED	APPROVED	SCALES	CLIENT	PROPERTY DESCRIPTION	PROJECT
1	21.01.22	ISSUED FOR CONSTRUCTION	B.M.	J.J.	B.M.	B.M.	A1 1:500 A1 1:100 A3 1:200	Central Coast 5 Pioneer Avenue, P.O. Box 3717, Tuggerah N.S.W. 2259 Phone: (02) 4305 4300 Fax: (02) 4305 4399 email: coast@adwjohnson.com.au www.adwjohnson.com.au ABN 62 129 445 398	LOT 100 D.P.1262209 & LOT 1 D.P.859537 EPPING ROAD & LYONPARK ROAD, MACQUARIE PARK SSDA 8903	PROPOSED SUBDIVISION
DESIGN FILE S:\300001\DESIGN\12D\STAGE 2 CC\DESIGN FILE.project								ADW Johnson	GDA94 M.G.A. ZONE 56 A.H.D.	PROJECT No. 300001(2) - DISCIPLINE ENG - NUMBER 431 - REV. 1

Plotted By: Ben Myles Plot Date: 21/01/22 2:31:49PM Cad File: S:\300001\DRAWINGS\ENGINEERING\CIVIL\STAGE 2 CC ENG\300001(2)-ENG-431.DWG



NOTES: -

- ALL STORMWATER PITS TO BE CONSTRUCTED IN ACCORDANCE WITH RYDE COUNCILS ENGINEERING CONSTRUCTION SPECIFICATION.
- ALL PITS DEEPER THAN 1.0m TO HAVE STEP IRONS.
- ALL STORMWATER PIPE CLASSES ARE TO COMPLY WITH COUNCILS DESIGN AND CONSTRUCTION SPECIFICATIONS. IF THERE ARE DISCREPANCIES BETWEEN COUNCILS' SPECIFICATIONS AND THE APPROVED CONSTRUCTION CERTIFICATE PLANS PLEASE NOTIFY THE SUPERINTENDENT IMMEDIATELY. IT IS THE CONTRACTORS RESPONSIBILITY TO USE THE APPROPRIATE CONSTRUCTION METHODOLOGY TO COMPACT AROUND/OVER STORMWATER PIPES AND ENSURE NO CRACKING OF THE STORMWATER PIPES OCCURS.
- PITS DEEPER THAN 2.5m TO BE CONSTRUCTED IN ACCORDANCE WITH STRUCTURAL ENGINEERS DESIGN.
- REFER TO DRAWINGS PREPARED BY RARI FOR SEWER DETAILS.
- ALL GRATES TO HAVE CHILD PROOF LOCK DOWN SYSTEM INSTALLED.

LINE 3

LDC

These plans are referred to in certificate no. 16746 approved by:

Eric Hausfeld
Registered Certifier

Registration No: BDC 2416

Categories: Certifier - Subdivision
Certifier - Strata
Certifier - Stormwater
Certifier - Road & Drainage
Certifier - Hydraulic (stormwater)

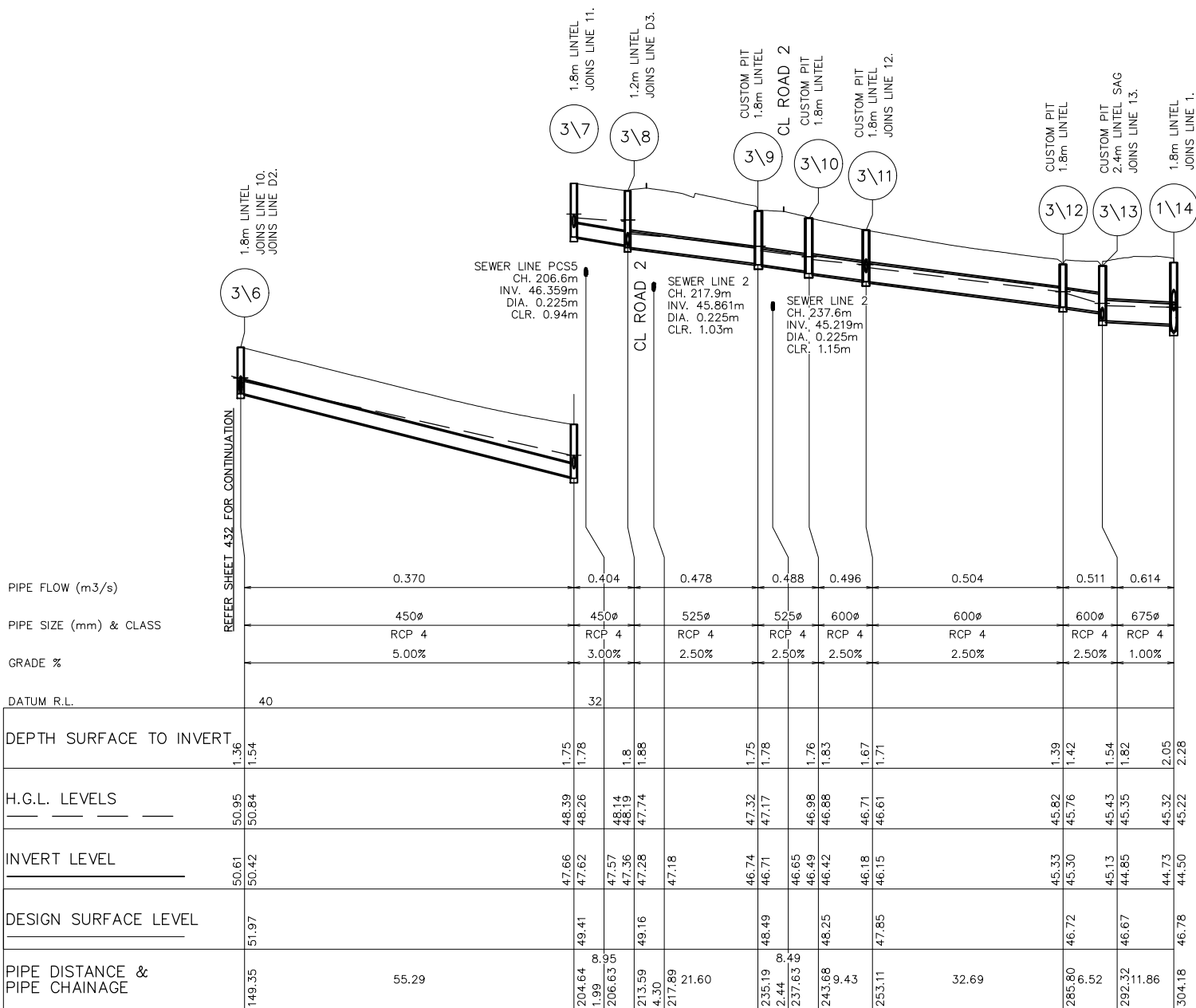
Land Development Certificates
www.LDC.com.au



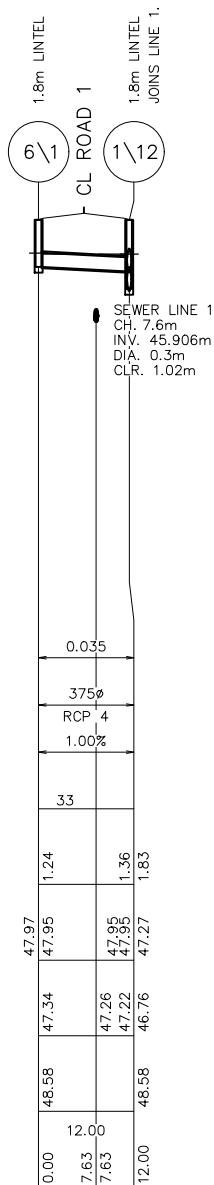
CONSTRUCTION ISSUE

REV.	DATE	AMENDMENT	DESIGN	DRAWN	CHECKED	APPROVED	SCALES	CLIENT	PROPERTY DESCRIPTION	PROJECT	PROJECT No.	DISCIPLINE	NUMBER	REV.
1	21.01.22	ISSUED FOR CONSTRUCTION	B.M.	J.J.	B.M.	B.M.	A1 1:500 A1 1:100 A3 1:200	Central Coast 5 Pioneer Avenue, P.O. Box 3717, Tuggerah N.S.W. 2259 Phone: (02) 4305 4300 Fax: (02) 4305 4399 email: coast@adwjohnson.com.au www.adwjohnson.com.au ABN 62 129 445 398	LOT 100 D.P.1262209 & LOT 1 D.P.859537 EPPING ROAD & LYONPARK ROAD, MACQUARIE PARK SSDA 8903	PROPOSED SUBDIVISION	300001(2) -	ENG	432	1

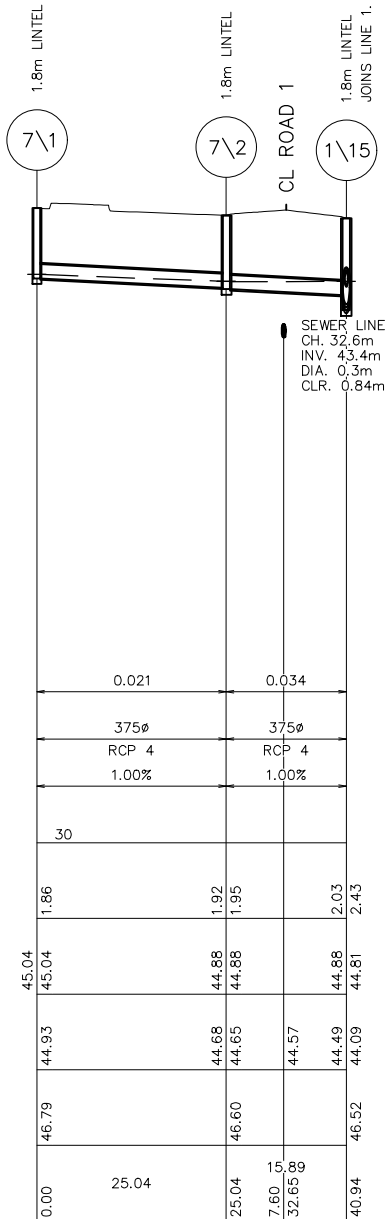
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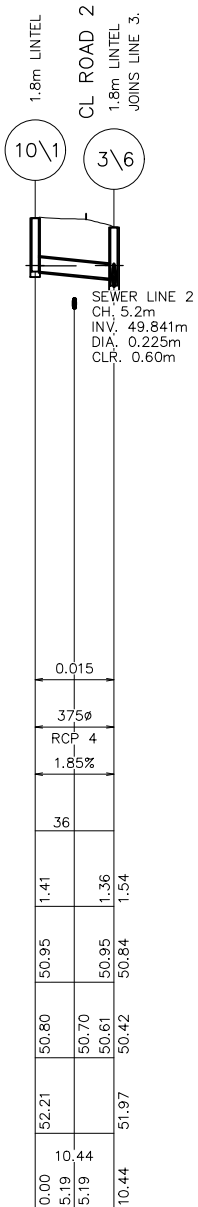
LINE 3 (CONTINUED)



LINE 6



LINE 7



LINE 10

NOTES: -

1. ALL STORMWATER PITS TO BE CONSTRUCTED IN ACCORDANCE WITH RYDE COUNCILS ENGINEERING CONSTRUCTION SPECIFICATION.
2. ALL PITS DEEPER THAN 1.0m TO HAVE STEP IRONS.
3. ALL STORMWATER PIPE CLASSES ARE TO COMPLY WITH COUNCILS DESIGN AND CONSTRUCTION SPECIFICATIONS. IF THERE ARE DISCREPANCIES BETWEEN COUNCILS' SPECIFICATIONS AND THE APPROVED CONSTRUCTION CERTIFICATE PLANS PLEASE NOTIFY THE SUPERINTENDENT IMMEDIATELY. IT IS THE CONTRACTORS RESPONSIBILITY TO USE THE APPROPRIATE CONSTRUCTION METHODOLOGY TO COMPACT AROUND/OVER STORMWATER PIPES AND ENSURE NO CRACKING OF THE STORMWATER PIPES OCCURS.
4. PITS DEEPER THAN 2.5m TO BE CONSTRUCTED IN ACCORDANCE WITH STRUCTURAL ENGINEERS DESIGN.
5. REFER TO DRAWINGS PREPARED BY RARI FOR SEWER DETAILS.
6. ALL GRATES TO HAVE CHILD PROOF LOCK DOWN SYSTEM INSTALLED.

These plans are referred to in certificate no. **16746** approved by:

Eric Hausfeld
Registered Certifier

Registration No: BDC 2416

Categories: Certifier - Subdivision
Certifier - Strata
Certifier - Stormwater
Certifier - Road & Drainage
Certifier - Hydraulic (stormwater)

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REV.	DATE	AMENDMENT	DESIGN	DRAWN	CHECKED	APPROVED	SCALES	CLIENT	PROPERTY DESCRIPTION	PROJECT	PROJECT No.	DISCIPLINE	NUMBER	REV.
1	21.01.22	ISSUED FOR CONSTRUCTION	B.M.	J.J.	B.M.	B.M.	A1 1:500 A1 1:100 A3 1:1000 A3 1:200	Central Coast 5 Pioneer Avenue, P.O. Box 3717, Tuggerah N.S.W. 2259 Phone: (02) 4305 4300 Fax: (02) 4305 4399 email: coast@adwjohnson.com.au www.adwjohnson.com.au ABN 62 129 445 398	LOT 100 D.P.1262209 & LOT 1 D.P.859537 EPPING ROAD & LYONPARK ROAD, MACQUARIE PARK SSDA 8903	PROPOSED SUBDIVISION	300001(2) -	ENG	433	1
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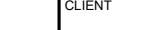
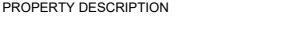


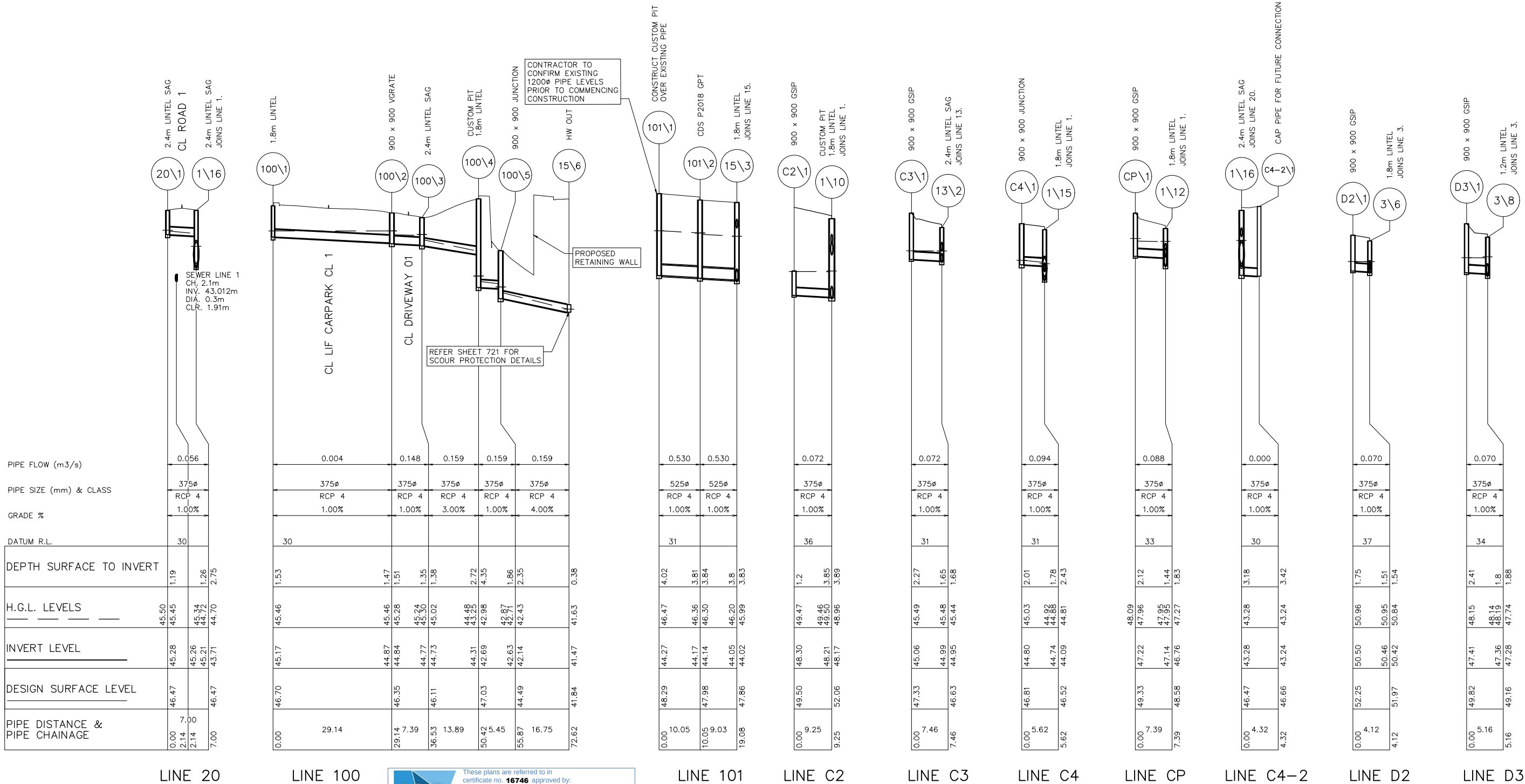
CONSTRUCTION ISSUE

1. ALL STORMWATER PITS TO BE CONSTRUCTED IN ACCORDANCE WITH RYDE COUNCILS ENGINEERING CONSTRUCTION SPECIFICATION.
2. ALL PITS DEEPER THAN 1.0m TO HAVE STEP IRONS.
3. ALL STORMWATER PIPE CLASSES ARE TO COMPLY WITH COUNCILS DESIGN AND CONSTRUCTION SPECIFICATIONS. IF THERE ARE DISCREPANCIES BETWEEN COUNCILS SPECIFICATIONS AND THE APPROVED CONSTRUCTION CERTIFICATE PLANS PLEASE NOTIFY THE SUPERINTENDENT IMMEDIATELY. IT IS THE CONTRACTORS RESPONSIBILITY TO USE THE APPROPRIATE CONSTRUCTION METHODOLOGY TO COMPACT AROUND/OVER STORMWATER PIPES AND ENSURE NO CRACKING OF THE STORMWATER PIPES OCCURS.
4. PITS DEEPER THAN 2.5m TO BE CONSTRUCTED IN ACCORDANCE WITH STRUCTURAL ENGINEERS DESIGN.
5. REFER TO DRAWINGS PREPARED BY RARI FOR SEWER DETAILS.
6. ALL GRATES TO HAVE CHILD PROOF LOCK DOWN SYSTEM INSTALLED.



CONSTRUCTION ISSUE

REV.	DATE	AMENDMENT	DESIGN	DRAWN	CHECKED	APPROVED	SCALES		Central Coast 5 Pioneer Avenue, P.O. Box 3717, Tuggerah N.S.W. 2259 Phone: (02) 4305 4300 Fax: (02) 4305 4399 email: coast@adwjohnson.com.au www.adwjohnson.com.au ABN 62 129 445 398	CLIENT 	PROPERTY DESCRIPTION LOT 100 D.P.1262209 and LOT 1 D.P.859537 EPPING ROAD & LYONPARK ROAD, MACQUARIE PARK SSDA 8903		PROJECT PROPOSED SUBDIVISION			
1	21.01.22	ISSUED FOR CONSTRUCTION	B.M.	J.J.	B.M.	B.M.	   						PLAN TITLE STORMWATER LONGITUDINAL SECTIONS SHEET 4	PROJECT No. 300001(2) -	DISCIPLINE ENG -	NUMBER 434
DESIGN FILE S:\3000001\DESIGN\12D\STAGE 2 CC\DESIGN FILE.project							ALL DIMENSIONS ARE IN METRES. DO NOT SCALE									



- NOTES: -
1. ALL STORMWATER PITS TO BE CONSTRUCTED IN ACCORDANCE WITH RYDE COUNCILS ENGINEERING CONSTRUCTION SPECIFICATION.
 2. ALL PITS DEEPER THAN 1.0m TO HAVE STEP IRONS.
 3. ALL STORMWATER PIPE CLASSES ARE TO COMPLY WITH COUNCILS DESIGN AND CONSTRUCTION SPECIFICATIONS. IF THERE ARE DISCREPANCIES BETWEEN COUNCILS' SPECIFICATIONS AND THE APPROVED CONSTRUCTION CERTIFICATE PLANS PLEASE NOTIFY THE SUPERINTENDENT IMMEDIATELY. IT IS THE CONTRACTORS RESPONSIBILITY TO USE THE APPROPRIATE CONSTRUCTION METHODOLOGY TO COMPACT AROUND/OVER STORMWATER PIPES AND ENSURE NO CRACKING OF THE STORMWATER PIPES OCCURS.
 4. PITS DEEPER THAN 2.5m TO BE CONSTRUCTED IN ACCORDANCE WITH STRUCTURAL ENGINEERS DESIGN.
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 6. ALL GRATES TO HAVE CHILD PROOF LOCK DOWN SYSTEM INSTALLED.

LDC These plans are referred to in certificate no. **16746** approved by:
Eric Hausfeld
Registered Certifier
Registration No: BDC 2416
Categories: Certifier - Subdivision
Certifier - Strata
Certifier - Stormwater
Certifier - Road & Drainage
Certifier - Hydraulic (stormwater)
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REV.	DATE	AMENDMENT	DESIGN	DRAWN	CHECKED	APPROVED	SCALES
1	21.01.22	ISSUED FOR CONSTRUCTION	B.M.	J.J.	B.M.	B.M.	A1 1:500 0 12.5 25.0m A3 1:1000 A1 1:100 0 2.5 5.0m A3 1:200

adw Johnson
Central Coast
5 Pioneer Avenue,
P.O. Box 3717,
Tuggerah N.S.W. 2259
Phone: (02) 4305 4300
Fax: (02) 4305 4399
email: coast@adwjohnson.com.au
www.adwjohnson.com.au
ABN 62 129 445 398

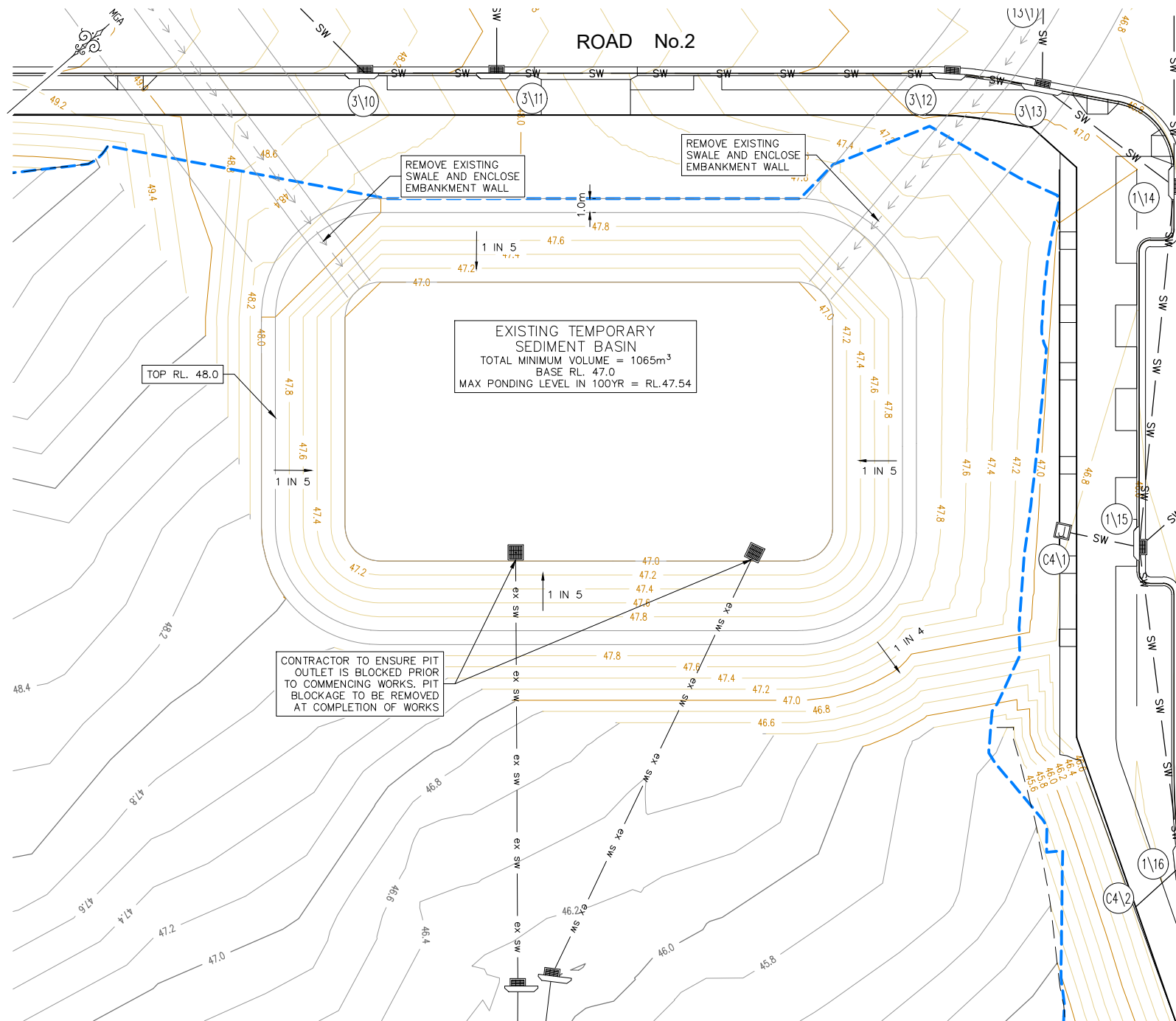
FRASERS PROPERTY

CLIENT
**LOT 100 D.P.1262209 & LOT 1 D.P.859537
EPPING ROAD & LYONPARK ROAD,
MACQUARIE PARK
SSDA 8903**

PROJECT
PROPOSED SUBDIVISION
PLAN TITLE
**STORMWATER LONGITUDINAL SECTIONS
SHEET 5**
PROJECT No. **300001(2) -** DISCIPLINE **ENG** - NUMBER **435** REV. **1**



CONSTRUCTION ISSUE



LEGEND

- SITE BOUNDARY
- LIMIT OF WORKS BOUNDARY
- PROPOSED LOT BOUNDARY
- EXISTING LOT BOUNDARY
- MAJOR CONTOURS
- MINOR CONTOURS
- EXTENTS OF BATTER
- SW PROPOSED STORMWATER
- ex SW EXISTING STORMWATER
- PROPOSED SWALE
- PROPOSED SW PIT
- PROPOSED HEADWALL
- PIT LABEL

CONTOUR INTERVAL = 0.2m

Revised Universal Soil Loss Equation (RUSLE)	
Catchment Area (A)	1.46 ha
Settling Zone	
Runoff Coefficient (Cv)	0.5
85th %, 5 day Rainfall Event (R)	38.8
Settling Zone Volume	284 m³
Sediment Zone	
Disturbed Site Area (hectares)	1.46 ha
Rainfall Erosivity Factor, R	3482
Soil Erodibility Factor, K	0.1
Slope Length Gradient Factor, LS	1.7
Erosion Control Practice Factor, P	1.3
Cover Factor, C	1
Sediment Zone Volume	147 m³
Total Storage Required (Settling + Sediment)	431 m³

NOTE:
REFER SHEET 601 FOR BASIN CATCHMENT DETAILS.

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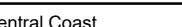
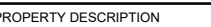
BASIN TO BE UTILISED AS SEDIMENT BASIN DURING STAGE 2 CIVIL WORKS. BASIN TO BE MAINTAINED IN ACCORDANCE WITH THE BLUE BOOK.

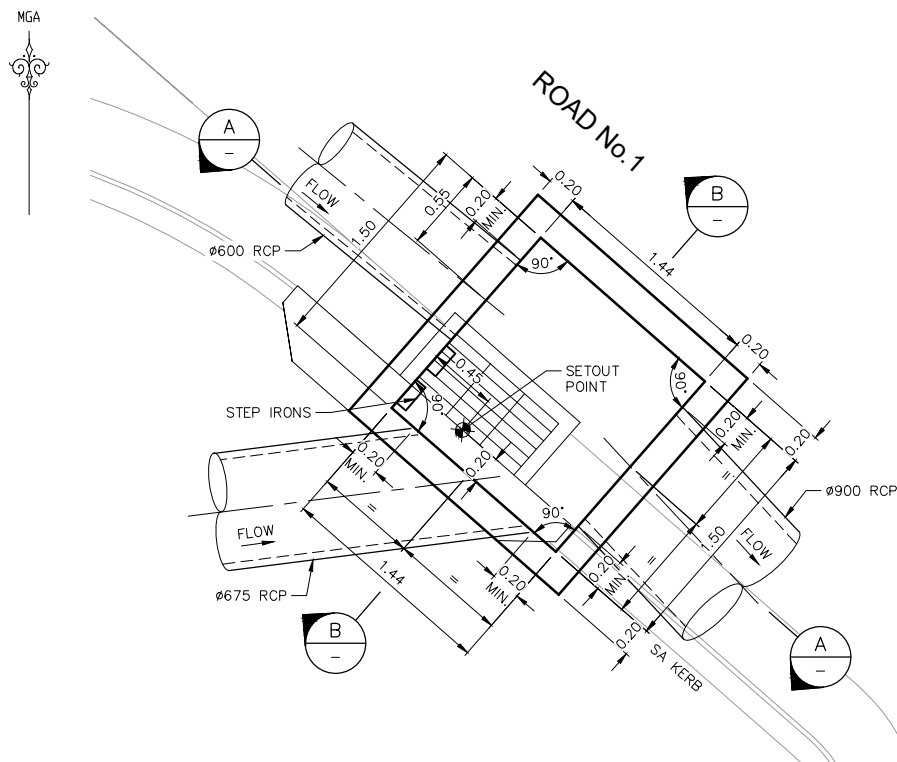
ONCE THE UPSTREAM CATCHMENT HAS BEEN STABILISED THE BASIN IS TO BE FLOCCULATED, ALL WATER PUMPED OUT AND PIT BLOCKAGE REMOVED.

CONTRACTOR TO PROVIDE TEMPORARY HOARDING AROUND BASIN TO RESTRICT PUBLIC ACCESS TO BASIN ONCE WORKS COMPLETED



CONSTRUCTION ISSUE

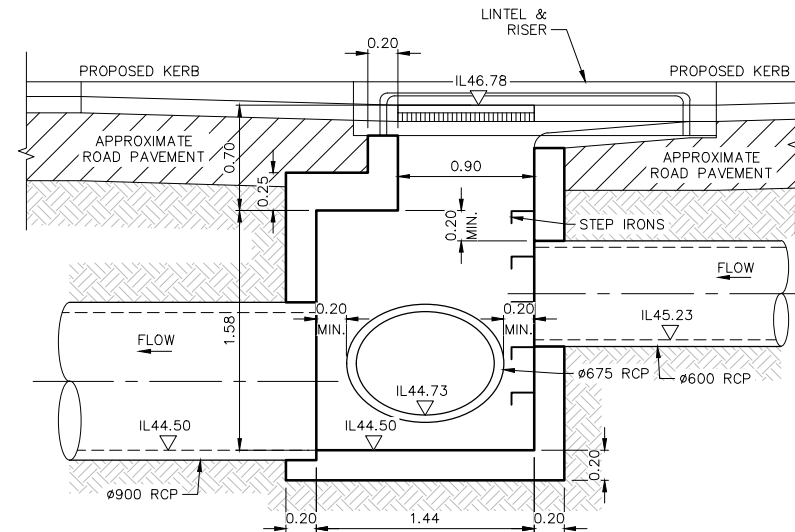
REV.	DATE	AMENDMENT	DESIGN	DRAWN	CHECKED	APPROVED	SCALES		Central Coast 5 Pioneer Avenue, P.O. Box 3717, Tuggerah N.S.W. 2259 Phone: (02) 4305 4300 Fax: (02) 4305 4399 email: coast@adwjohnson.com.au www.adwjohnson.com.au ABN 62 129 445 398		CLIENT	PROPERTY DESCRIPTION LOT 100 D.P.1262209 & LOT 1 D.P.859537 EPPING ROAD & LYONPARK ROAD, MACQUARIE PARK SSDA 8903	PROJECT PROPOSED SUBDIVISION				
PLAN TITLE BASIN DETAIL PLAN																	
SURVEYED ADW Johnson													DATUM GDA94 M.G.A. ZONE 56 A.H.D.	PROJECT No. 300001(2) -	DISCIPLINE ENG -	NUMBER 451	REV. 1
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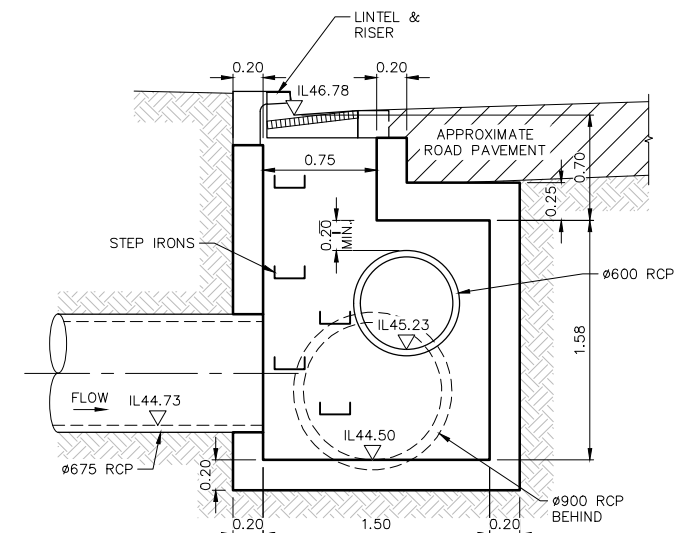
DETAIL PLAN - PIT 1\14
SCALE 1:25

NOTE:
REFER SHEET 495 FOR
REINFORCEMENT DETAILS.

NOTE:
LOCKABLE GRATES ARE TO BE INSTALLED TO
PITS IN ACCORDANCE WITH RYDE CITY COUNCIL
STANDARD DRAWINGS AND SPECIFICATIONS.



SECTION A
SCALE 1: 25



SECTION B
SCALE 1: 25

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Eric Hausfeld
Registered Certifier
Registration No: BDC 2416
Categories: Certifier - Subdivision
Certifier - Strata
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CONSTRUCTION ISSUE

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adw Johnson

Central Coast
5 Pioneer Avenue,
P.O. Box 3717,
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Phone: (02) 4305 4300
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www.adwjohnson.com.au
ABN 62 129 445 398

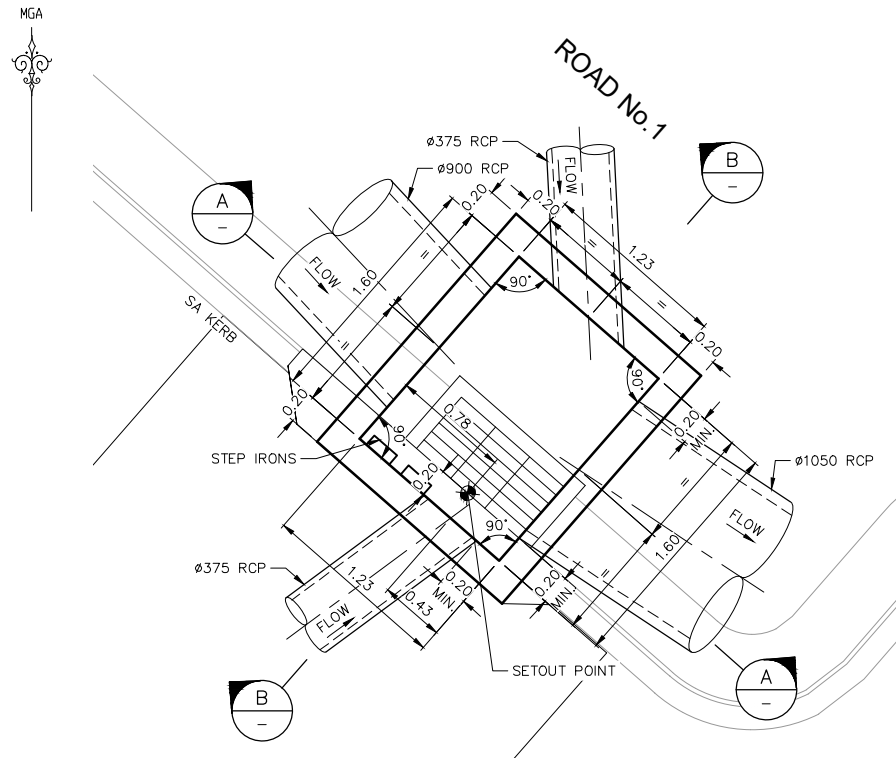
CLIENT

FRASERS PROPERTY

PROPERTY DESCRIPTION

LOT 100 D.P.1262209 & LOT 1 D.P.859537
EPPING ROAD & LYONPARK ROAD,
MACQUARIE PARK
SSDA 8903

PROJECT	PLAN TITLE	PROJECT No.	DISCIPLINE	NUMBER	REV.
PROPOSED SUBDIVISION	CUSTOM STORMWATER PIT PIT No. 1\14	300001(2) -	ENG	481	1



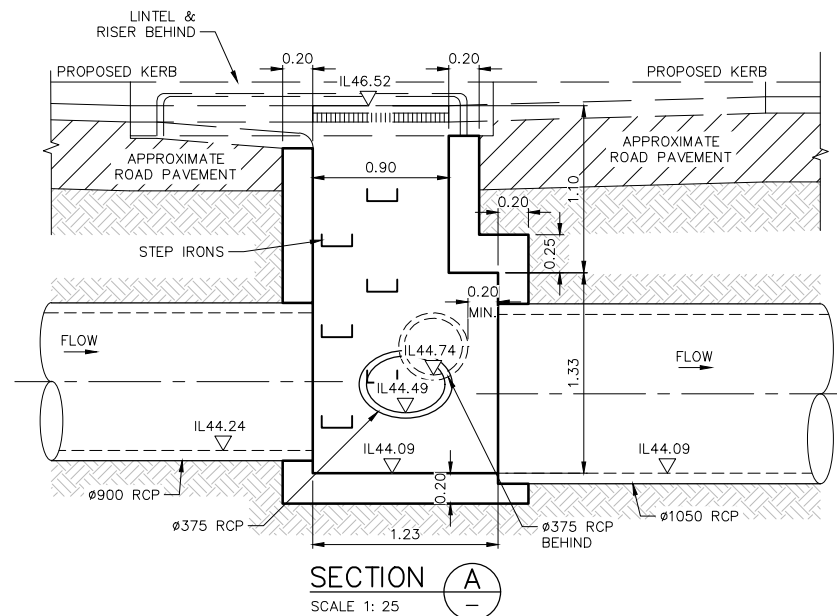
DETAIL PLAN - PIT 1\15

SCALE 1:25

NOTE:

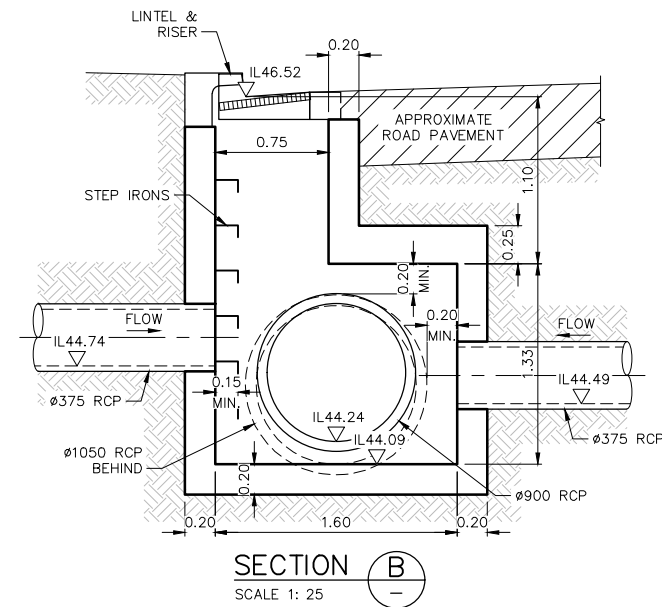
REFER SHEET 495 FOR
REINFORCEMENT DETAILS.

NOTE:

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SECTION A

SCALE 1: 25



SECTION B

SCALE 1: 25

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Registered Certifier

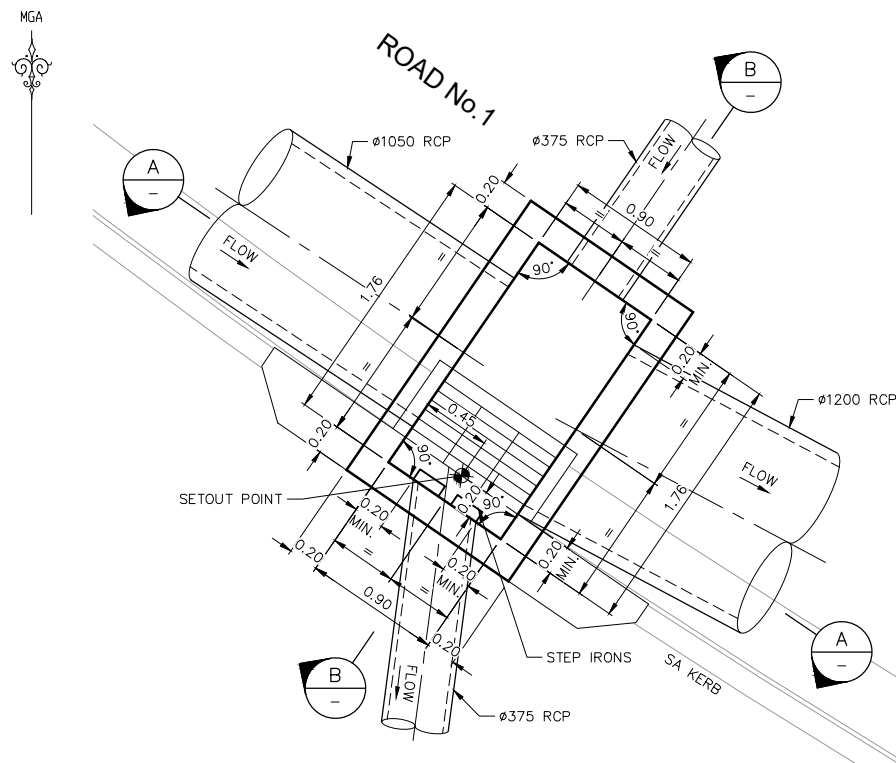
Registration No: BDC 2416
Categories: Certifier - Subdivision
Certifier - Strata
Certifier - Stormwater
Certifier - Road & Drainage
Certifier - Hydraulic (stormwater)

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CONSTRUCTION ISSUE

REV.	DATE	AMENDMENT	DESIGN	DRAWN	CHECKED	APPROVED	SCALES	CLIENT	PROPERTY DESCRIPTION	PROJECT
1	21.01.22	ISSUED FOR CONSTRUCTION	B.M.	J.J.	B.M.	B.M.	A1 0 0.25 0.50 0.75 1.00 1.25m A3 1:50 	 Central Coast 5 Pioneer Avenue, P.O. Box 3717, Tuggerah N.S.W. 2259 Phone: (02) 4305 4300 Fax: (02) 4305 4399 email: coast@adwjohnson.com.au www.adwjohnson.com.au ABN 62 129 445 398	 LOT 100 D.P.1262209 & LOT 1 D.P.859537 EPPING ROAD & LYONPARK ROAD, MACQUARIE PARK SSDA 8903	PROPOSED SUBDIVISION PLAN TITLE CUSTOM STORMWATER PIT PIT No. 1\15
DESIGN FILE S:\300001\DESIGN\12D\STAGE 2 CC\DESIGN FILE.project			ALL DIMENSIONS ARE IN METRES. DO NOT SCALE				SURVEYED ADW Johnson DATUM GDA94 M.G.A. ZONE 56 A.H.D. PROJECT No. 300001(2) - DISCIPLINE ENG - NUMBER 482 - REV. 1			



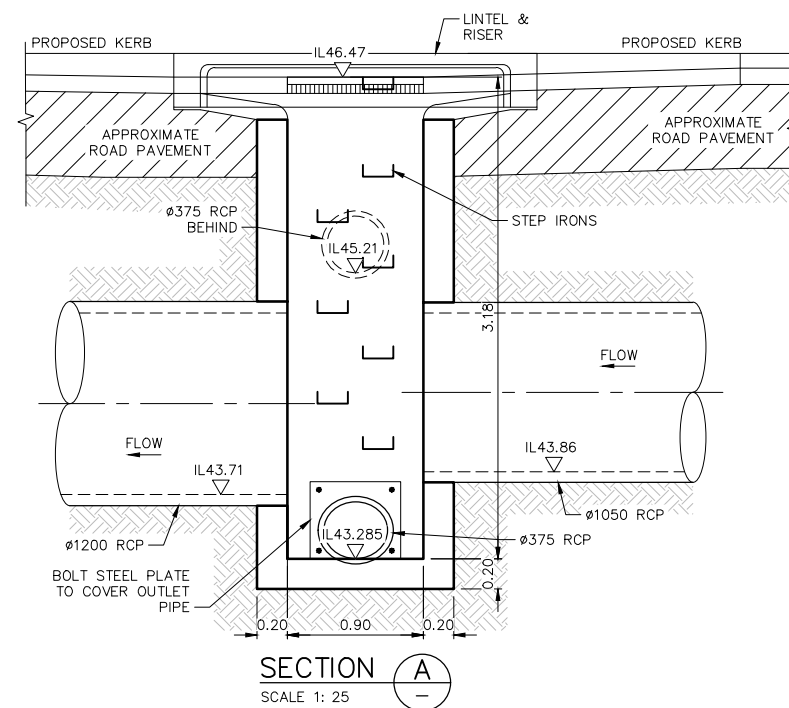
DETAIL PLAN - PIT 1\16

SCALE 1:25

NOTE:

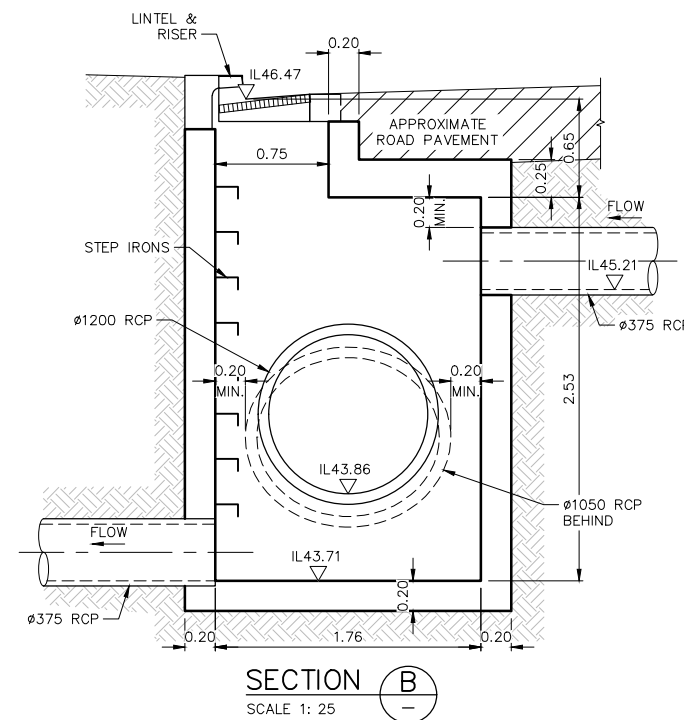
REFER SHEET 495 FOR
REINFORCEMENT DETAILS.

NOTE:

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SECTION A

SCALE 1: 25



SECTION B

SCALE 1: 25

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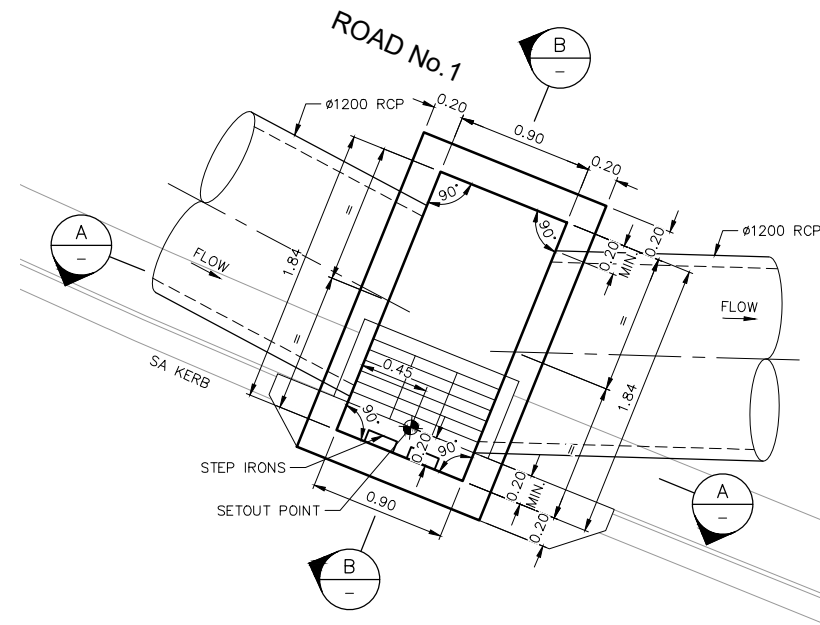
Registration No: BDC 2416
Categories: Certifier - Subdivision
Certifier - Strata
Certifier - Stormwater
Certifier - Road & Drainage
Certifier - Hydraulic (stormwater)

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CONSTRUCTION ISSUE

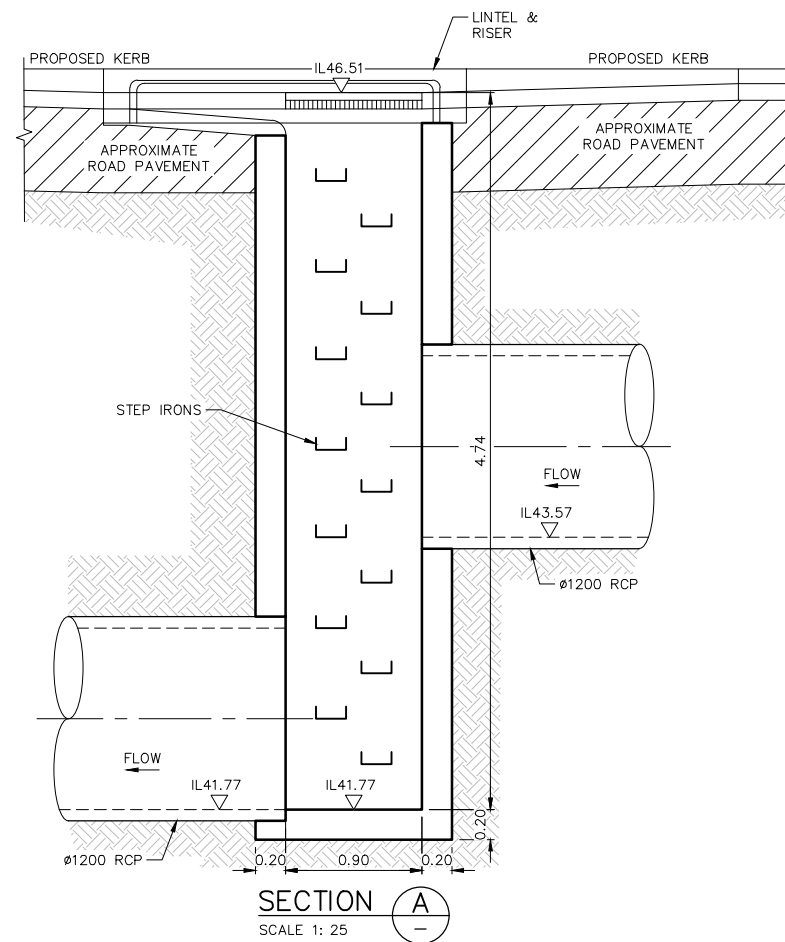
REV.	DATE	AMENDMENT	DESIGN	DRAWN	CHECKED	APPROVED	SCALES	CLIENT	PROPERTY DESCRIPTION	PROJECT
1	21.01.22	ISSUED FOR CONSTRUCTION	B.M.	J.J.	B.M.	B.M.	A1 1:25 0 0.25 0.50 0.75 1.00 1.25m A3 1:50	Central Coast 5 Pioneer Avenue, P.O. Box 3717, Tuggerah N.S.W. 2259 Phone: (02) 4305 4300 Fax: (02) 4305 4399 email: coast@adwjohnson.com.au www.adwjohnson.com.au ABN 62 129 445 398	FRASERS PROPERTY LOT 100 D.P.1262209 & LOT 1 D.P.859537 EPPING ROAD & LYONPARK ROAD, MACQUARIE PARK SSDA 8903	PROPOSED SUBDIVISION
DESIGN FILE S:\300001\DESIGN\12D\STAGE 2 CC\DESIGN FILE.project			ALL DIMENSIONS ARE IN METRES. DO NOT SCALE			PLAN TITLE CUSTOM STORMWATER PIT PIT No. 1\16				
Plotted By: Ben Myles Plot Date: 21/01/22 2:32:36PM Cad File: S:\300001\DRAWINGS\ENGINEERING\CIVIL\STAGE 2 CC ENG\300001(2)-ENG-483.DWG			PROJECT No. 300001(2) - DISCIPLINE ENG - NUMBER 483 - REV. 1							



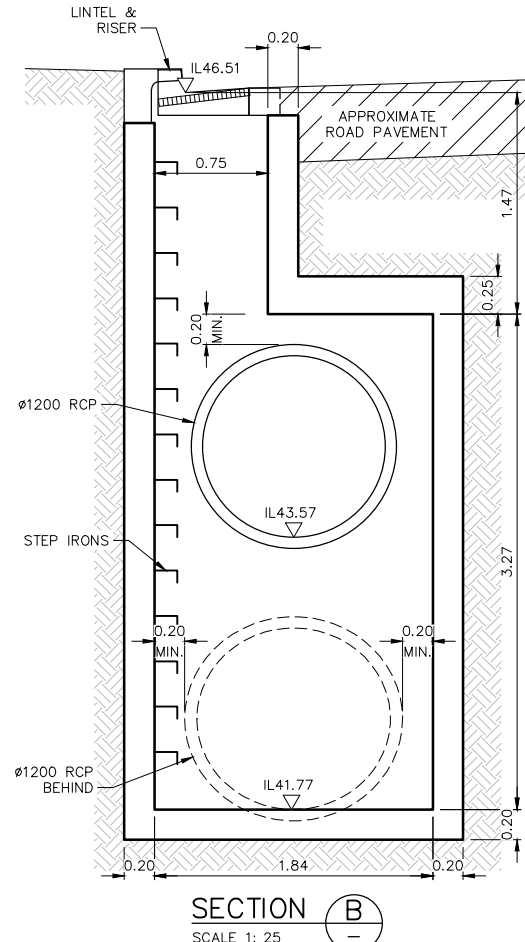
NOTE:
REFER SHEET 495 FOR
REINFORCEMENT DETAILS.

DETAIL PLAN – PIT 1\17
SCALE 1:25

NOTE:
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SECTION A
SCALE 1: 25



SECTION B
SCALE 1: 25

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Certifier – Hydraulic (stormwater)

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CONSTRUCTION ISSUE

REV.	DATE	AMENDMENT	DESIGN	DRAWN	CHECKED	APPROVED	SCALES
1	21.01.22	ISSUED FOR CONSTRUCTION	B.M.	J.J.	B.M.	B.M.	

adw Johnson

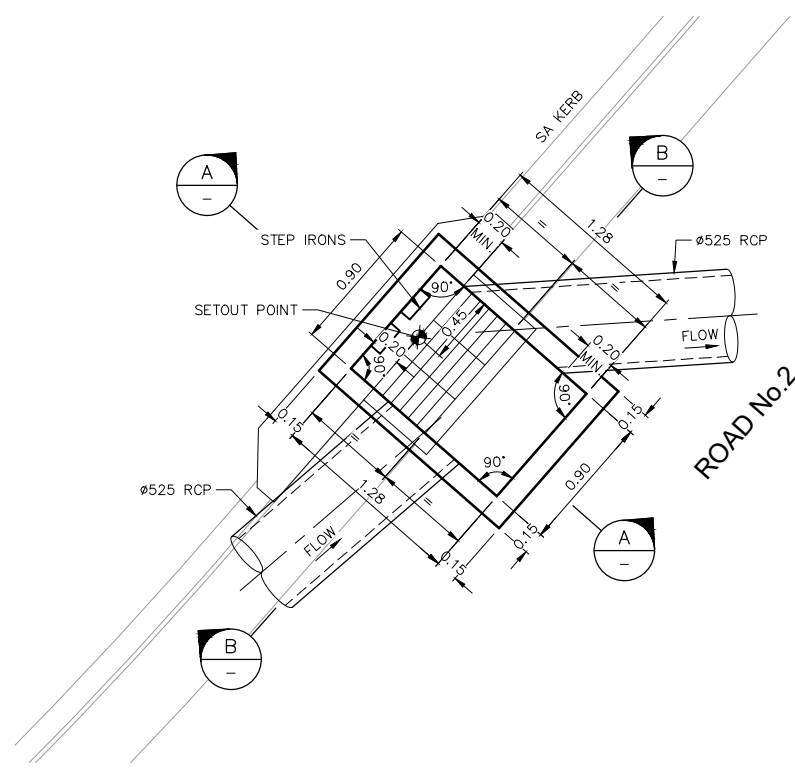
Central Coast
5 Pioneer Avenue,
P.O. Box 3717,
Tuggerah N.S.W. 2259
Phone: (02) 4305 4300
Fax: (02) 4305 4399
email: coast@adwjohnson.com.au
www.adwjohnson.com.au
ABN 62 129 445 398

FRASERS PROPERTY

PROPERTY DESCRIPTION

LOT 100 D.P.1262209 & LOT 1 D.P.859537
EPPING ROAD & LYONPARK ROAD,
MACQUARIE PARK
SSDA 8903

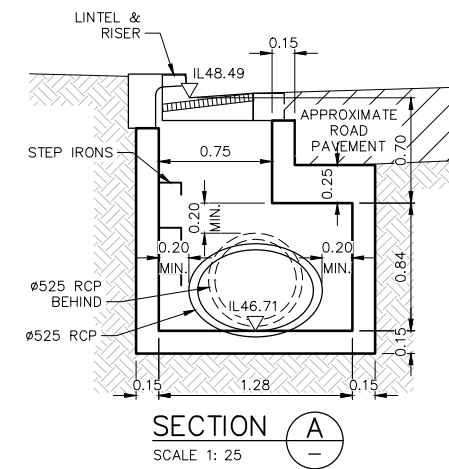
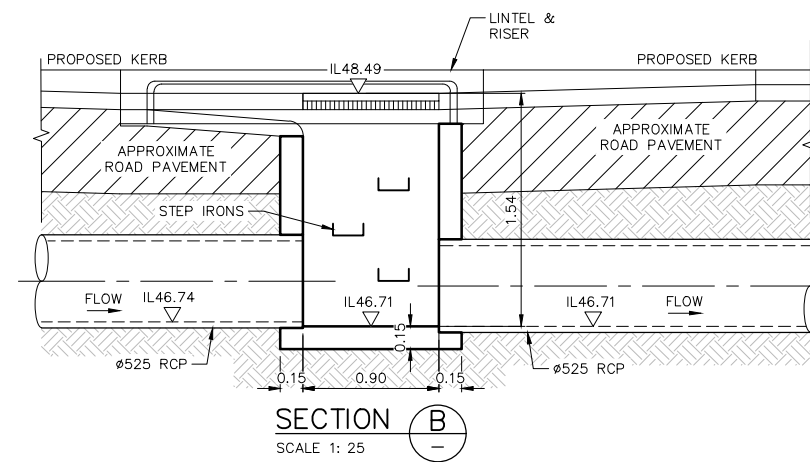
PROJECT	PLAN TITLE	PROJECT No.	DISCIPLINE	NUMBER	REV.
PROPOSED SUBDIVISION	CUSTOM STORMWATER PIT PIT No. 1\17	300001(2) -	ENG	484	1

DETAIL PLAN – PIT 3/9
SCALE 1:25

NOTE:

REFER SHEET 495 FOR
REINFORCEMENT DETAILS.

NOTE:

LOCKABLE GRATES ARE TO BE INSTALLED TO
PITS IN ACCORDANCE WITH RYDE CITY COUNCIL
STANDARD DRAWINGS AND SPECIFICATIONS.SECTION A
SCALE 1: 25SECTION B
SCALE 1: 25

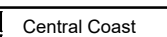
These plans are referred to in
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Eric Hausfeld
Registered Certifier
Registration No: BDC 2416
Categories: Certifier – Subdivision
Certifier – Strata
Certifier – Stormwater
Certifier – Road & Drainage
Certifier – Hydraulic (stormwater)

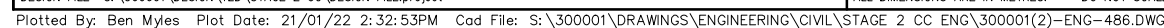
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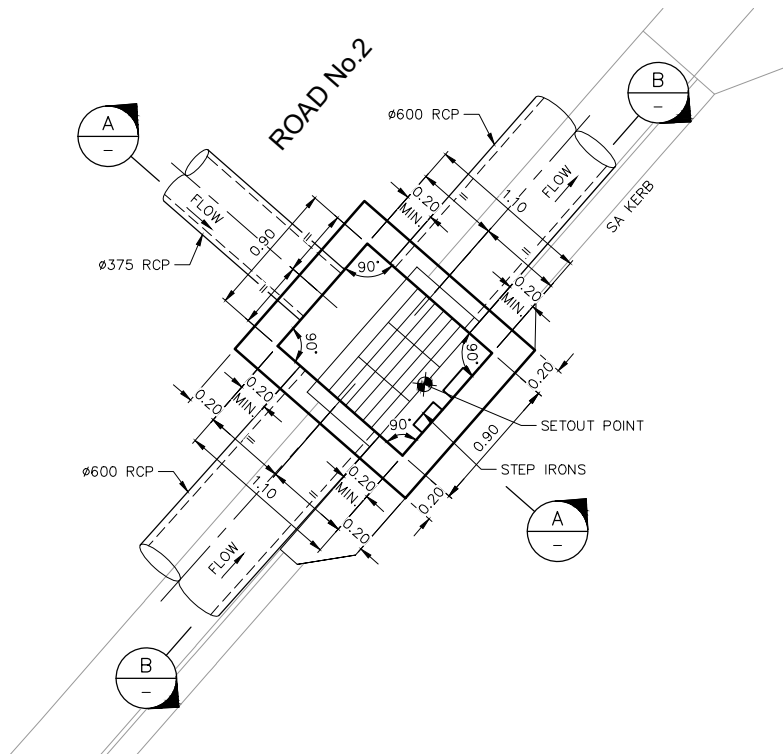


DIAL 1100
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CONSTRUCTION ISSUE

REV.		DATE	AMENDMENT	DESIGN	DRAWN	CHECKED	APPROVED	SCALES		Central Coast 5 Pioneer Avenue, P.O. Box 3717, Tuggerah N.S.W. 2259 Phone: (02) 4305 4300 Fax: (02) 4305 4399 email: coast@adwjohnson.com.au www.adwjohnson.com.au ABN 62 129 445 398	CLIENT 	PROPERTY DESCRIPTION		PROJECT				
1	21.01.22	ISSUED FOR CONSTRUCTION		B.M.	J.J.	B.M.	B.M.	A1 1:25  A3 1:50				LOT 100 D.P.1262209 & LOT 1 D.P.859537 EPPING ROAD & LYONPARK ROAD, MACQUARIE PARK SSDA 8903		PROPOSED SUBDIVISION				
DESIGN FILE S:\300001\DESIGN\12D\STAGE 2 CC\DESIGN FILE.project									ALL DIMENSIONS ARE IN METRES. DO NOT SCALE		PLAN TITLE		CUSTOM STORMWATER PIT PIT No. 3/9					
											SURVEYED ADW Johnson		DATUM GDA94 M.G.A. ZONE 56 A.H.D.		PROJECT No. 300001(2) -	DISCIPLINE ENG -	NUMBER 485	REV. 1

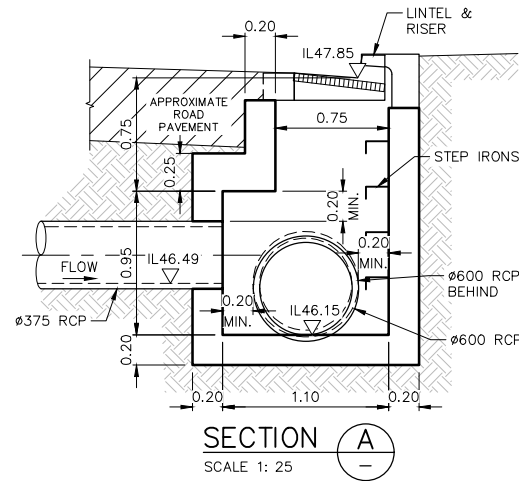




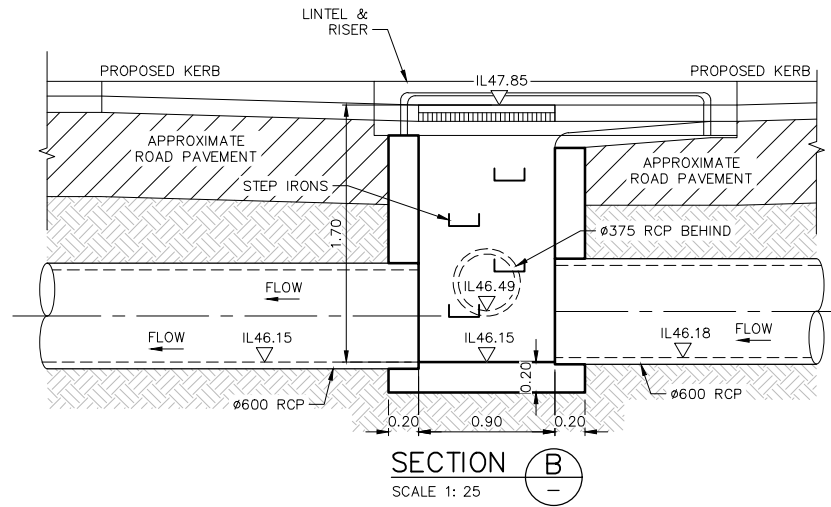
DETAIL PLAN - PIT 3\11
SCALE 1:25

NOTE:
REFER SHEET 495 FOR
REINFORCEMENT DETAILS.

NOTE:
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STANDARD DRAWINGS AND SPECIFICATIONS.



SECTION A
SCALE 1: 25



SECTION B
SCALE 1: 25

These plans are referred to in
certificate no. **16746** approved by:

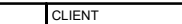
Eric Hausfeld
Registered Certifier

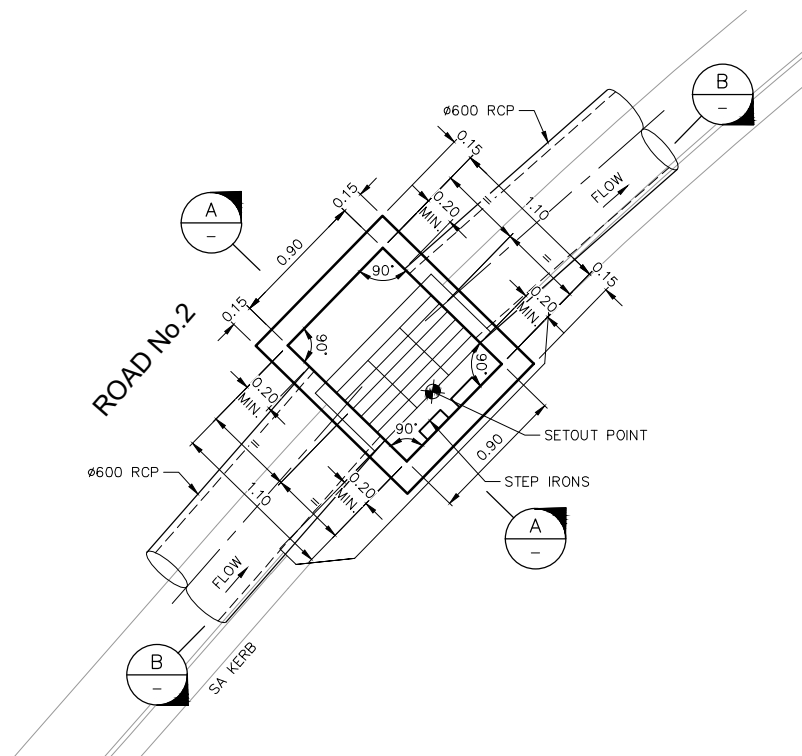
Registration No: BDC 2416
Categories: Certifier - Subdivision
Certifier - Strata
Certifier - Stormwater
Certifier - Road & Drainage
Certifier - Hydraulic (stormwater)

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CONSTRUCTION ISSUE

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1	21.01.22	ISSUED FOR CONSTRUCTION	B.M.	J.J.	B.M.	B.M.						LOT 100 D.P.1262209 & LOT 1 D.P.859537 EPPING ROAD & LYONPARK ROAD, MACQUARIE PARK SSDA 8903		PROPOSED SUBDIVISION			
DESIGN FILE S:\300001\DESIGN\12D\STAGE 2 CC\DESIGN FILE.project							ALL DIMENSIONS ARE IN METRES. DO NOT SCALE					PLAN TITLE		CUSTOM STORMWATER PIT PIT No. 3\11			
												SURVEYED ADW Johnson	DATUM GDA94 M.G.A. ZONE 56 A.H.D.	PROJECT No. 300001(2) -	DISCIPLINE ENG -	NUMBER 487	REV. 1



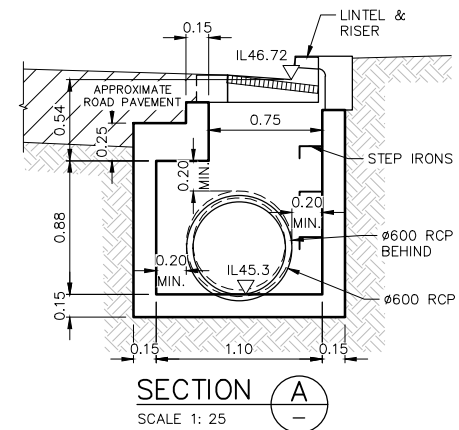
DETAIL PLAN – PIT 3/12

SCALE 1:25

NOTE:

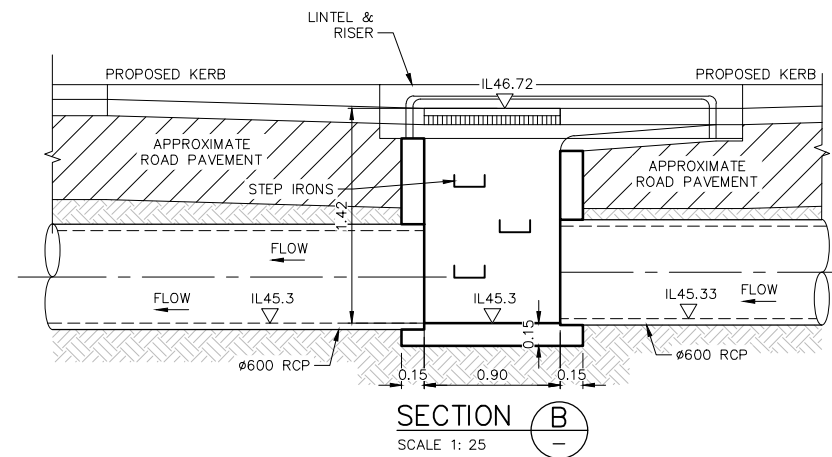
REFER SHEET 495 FOR
REINFORCEMENT DETAILS.

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SECTION A

SCALE 1: 25



SECTION B

SCALE 1: 25

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Registered Certifier

Registration No: BDC 2416

Categories: Certifier – Subdivision
Certifier – Strata
Certifier – Stormwater
Certifier – Road & Drainage
Certifier – Hydraulic (stormwater)Land Development Certificates
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CONSTRUCTION ISSUE

REV.	DATE	AMENDMENT	DESIGN	DRAWN	CHECKED	APPROVED	SCALES
1	21.01.22	ISSUED FOR CONSTRUCTION	B.M.	J.J.	B.M.	B.M.	A1 1:25 0 0.25 0.50 0.75 1.00 1.25m A3 1:50



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www.adwjohnson.com.au
ABN 62 129 445 398

CLIENT



PROPERTY DESCRIPTION

LOT 100 D.P.1262209 & LOT 1 D.P.859537
EPPING ROAD & LYONPARK ROAD,
MACQUARIE PARK
SSDA 8903

SURVEYED

ADW Johnson

DATUM

GDA94 M.G.A. ZONE 56 A.H.D.

PROJECT

PROPOSED SUBDIVISION

PLAN TITLE

CUSTOM STORMWATER PIT
PIT No. 3/12

PROJECT No.

300001(2) – ENG

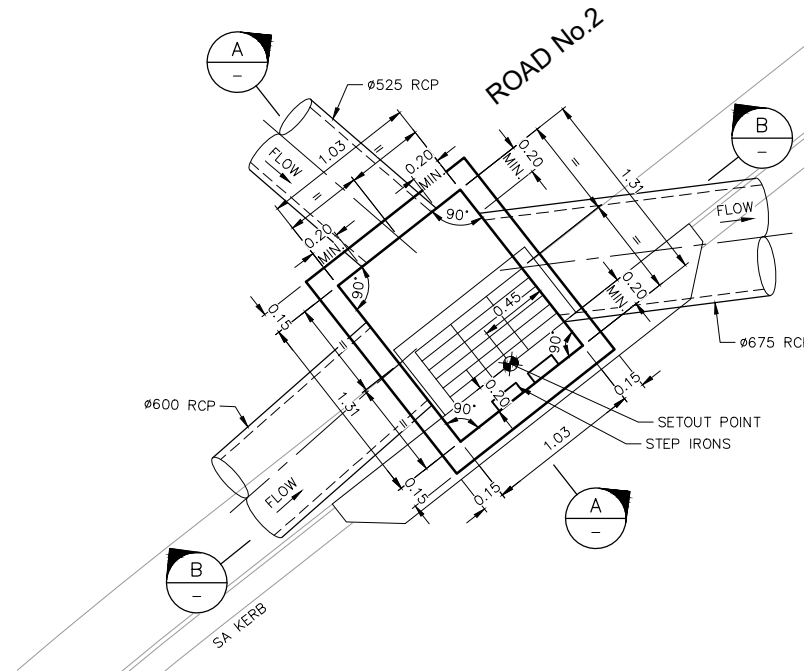
DISCIPLINE

NUMBER

488

REV.

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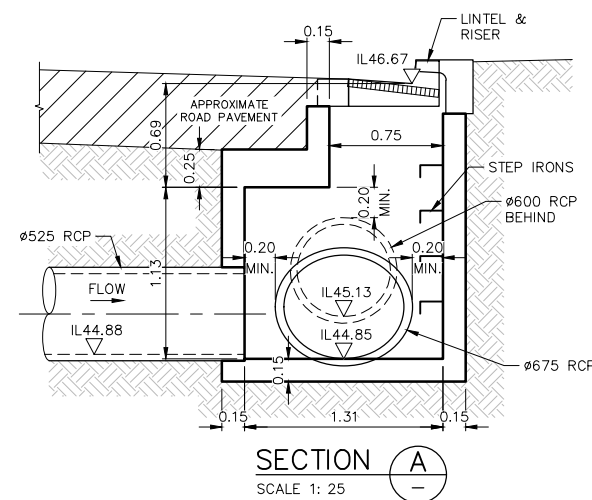
DETAIL PLAN – PIT 3/13

SCALE 1:25

NOTE:

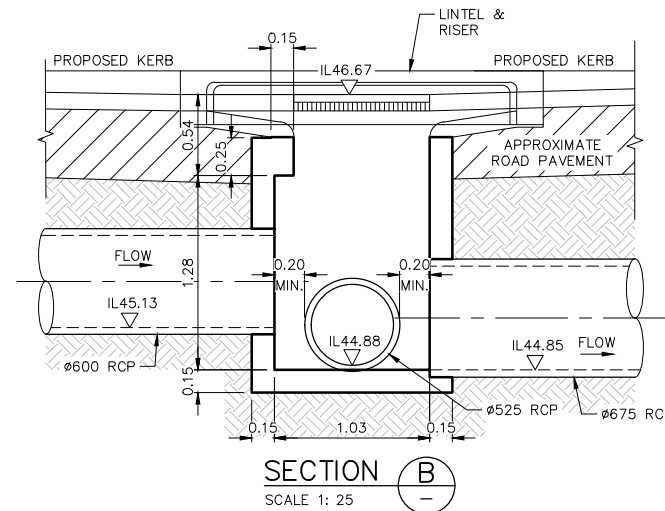
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SECTION A

SCALE 1:25



SECTION B

SCALE 1:25

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Land Development Certificates
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REV.	DATE	AMENDMENT	DESIGN	DRAWN	CHECKED	APPROVED	SCALES
1	21.01.22	ISSUED FOR CONSTRUCTION	B.M.	J.J.	B.M.	B.M.	A1 1:25 0 0.25 0.50 0.75 1.00 1.25m A3 1:50

adw Johnson

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www.adwjohnson.com.au
ABN 62 129 445 398

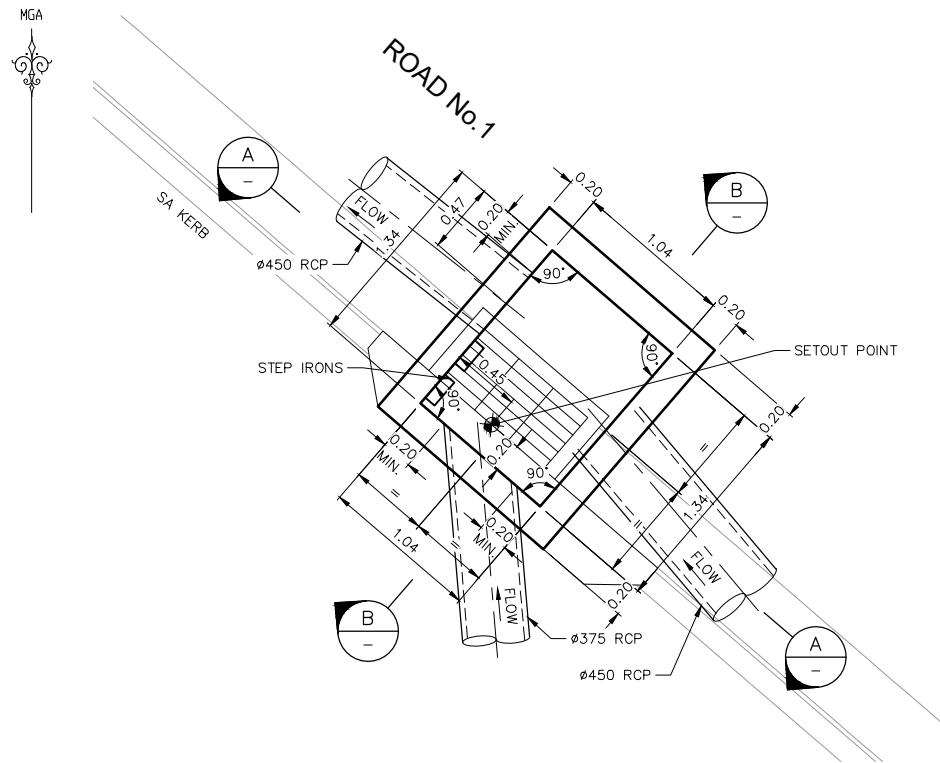
CLIENT

FRASERS PROPERTY

PROPERTY DESCRIPTION

LOT 100 D.P.1262209 & LOT 1 D.P.859537
EPPING ROAD & LYONPARK ROAD,
MACQUARIE PARK
SSDA 8903

PROJECT	PROPOSED SUBDIVISION
PLAN TITLE	CUSTOM STORMWATER PIT PIT No. 3/13
SURVEYED	ADW Johnson
DATUM	GDA94 M.G.A. ZONE 56 A.H.D.
PROJECT No.	300001(2) –
DISCIPLINE	ENG –
NUMBER	489
REV.	1



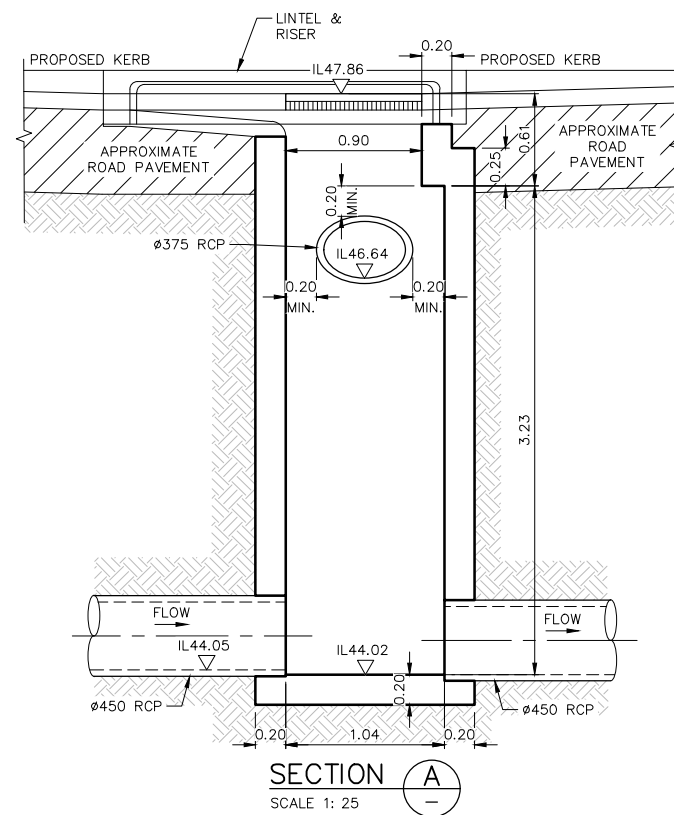
DETAIL PLAN - PIT 15\3

SCALE 1:25

NOTE:

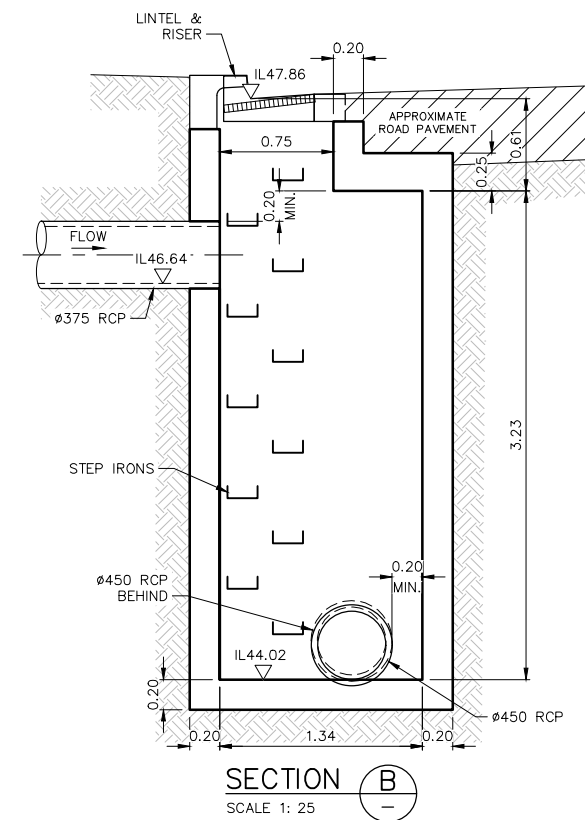
REFER SHEET 495 FOR
REINFORCEMENT DETAILS.

NOTE:

LOCKABLE GRATES ARE TO BE INSTALLED TO
PITS IN ACCORDANCE WITH RYDE CITY COUNCIL
STANDARD DRAWINGS AND SPECIFICATIONS.

SECTION A

SCALE 1: 25



SECTION B

SCALE 1: 25

LDC These plans are referred to in
certificate no. **16746** approved by:
Eric Hausfeld
Registered Certifier
Registration No: BDC 2416
Categories: Certifier - Subdivision
Certifier - Strata
Certifier - Stormwater
Certifier - Road & Drainage
Certifier - Hydraulic (stormwater)

Land Development Certificates
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CONSTRUCTION ISSUE

REV.	DATE	AMENDMENT	DESIGN	DRAWN	CHECKED	APPROVED	SCALES
1	21.01.22	ISSUED FOR CONSTRUCTION	B.M.	J.J.	B.M.	B.M.	A1 1:25 A3 1:50

ALL DIMENSIONS ARE IN METRES. DO NOT SCALE



Central Coast
5 Pioneer Avenue,
P.O. Box 3717,
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Phone: (02) 4305 4300
Fax: (02) 4305 4399
email: coast@adwjohnson.com.au
www.adwjohnson.com.au
ABN 62 129 445 398

CLIENT



PROPERTY DESCRIPTION

LOT 100 D.P.1262209 & LOT 1 D.P.859537
EPPING ROAD & LYONPARK ROAD,
MACQUARIE PARK
SSDA 8903

SURVEYED

ADW Johnson

DATUM

GDA94 M.G.A. ZONE 56 A.H.D.

PROJECT

PROPOSED SUBDIVISION

PLAN TITLE

CUSTOM STORMWATER PIT
PIT No. 15\3

PROJECT No.

300001(2) -

DISCIPLINE

ENG

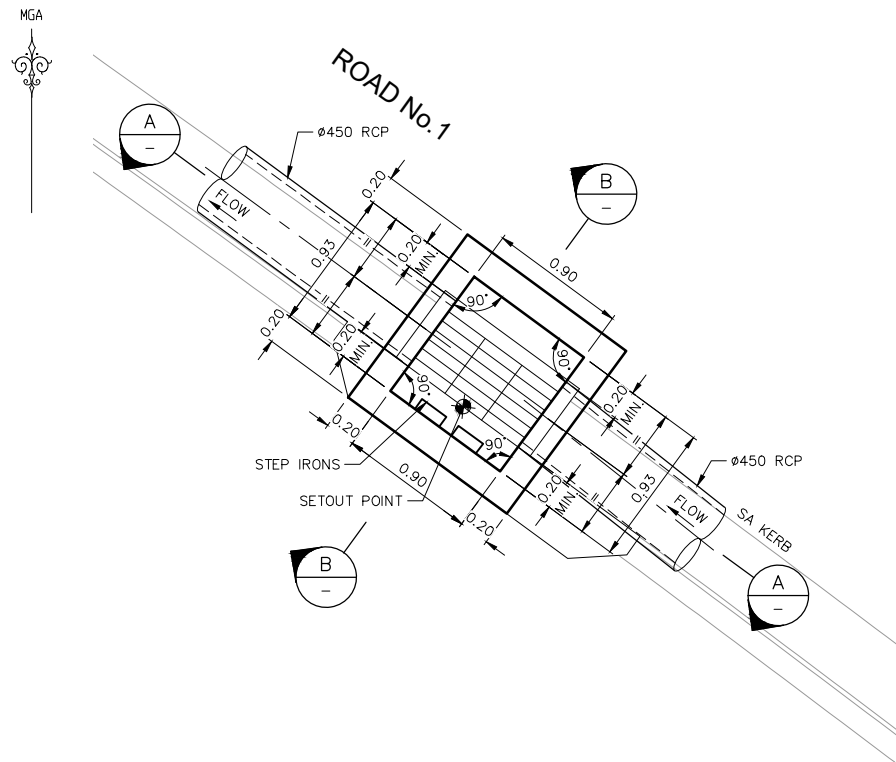
NUMBER

490

REV.

1

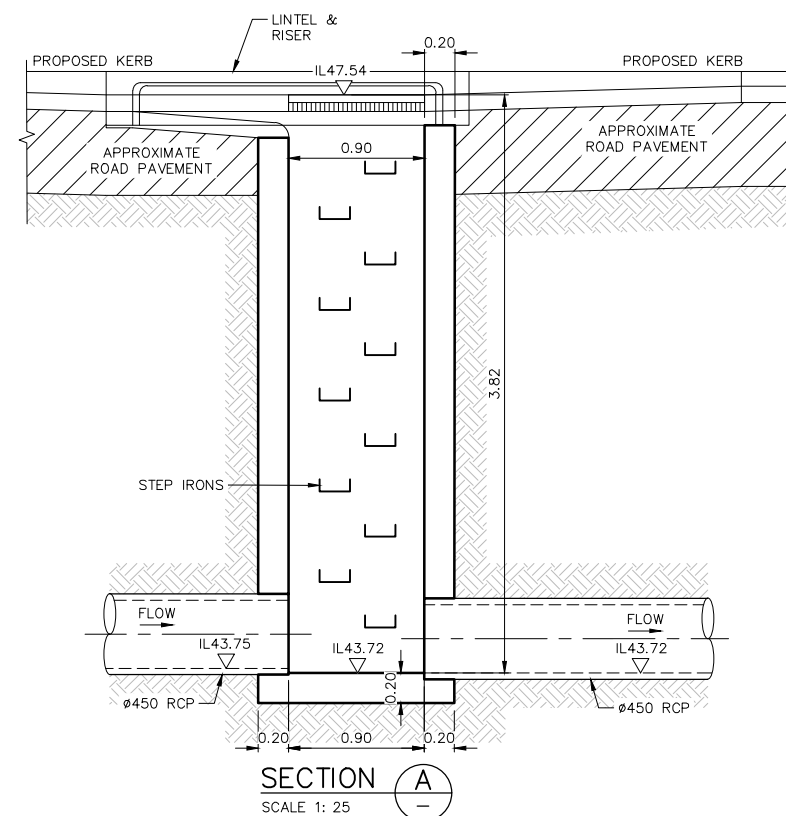
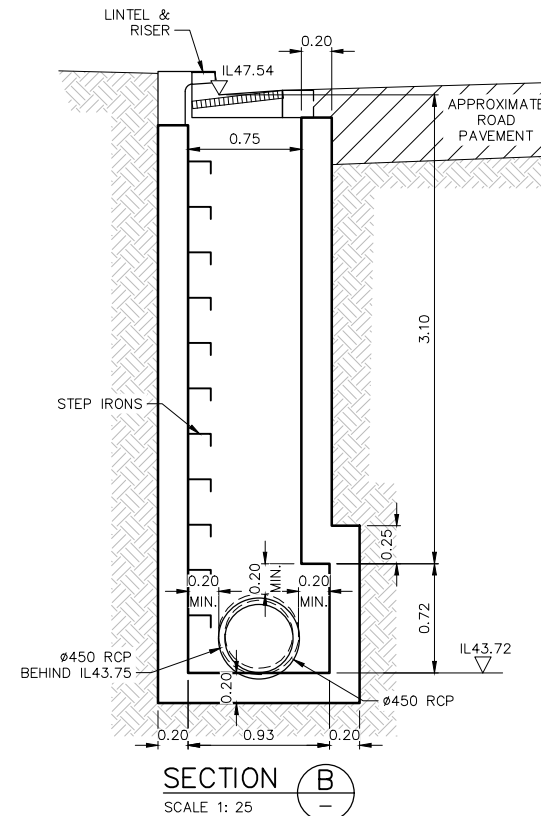
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DETAIL PLAN - PIT 15\4
SCALE 1:25

NOTE:

REFER SHEET 495 FOR
REINFORCEMENT DETAILS.

NOTE:

LOCKABLE GRATES ARE TO BE INSTALLED TO
PITS IN ACCORDANCE WITH RYDE CITY COUNCIL
STANDARD DRAWINGS AND SPECIFICATIONS.SECTION A
SCALE 1:25SECTION B
SCALE 1:25

These plans are referred to in
certificate no. **16746** approved by:

Eric Hausfeld
Registered Certifier

Registration No: BDC 2416
Categories: Certifier - Subdivision
Certifier - Strata
Certifier - Stormwater
Certifier - Road & Drainage
Certifier - Hydraulic (stormwater)

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CONSTRUCTION ISSUE

REV.	DATE	AMENDMENT	DESIGN	DRAWN	CHECKED	APPROVED	SCALES
1	21.01.22	ISSUED FOR CONSTRUCTION	B.M.	J.J.	B.M.	B.M.	A1 1:25 A3 1:50 0 0.25 0.50 0.75 1.00 1.25m

adw Johnson

Central Coast
5 Pioneer Avenue,
P.O. Box 3717,
Tuggerah N.S.W. 2259
Phone: (02) 4305 4300
Fax: (02) 4305 4399
email: coast@adwjohnson.com.au
www.adwjohnson.com.au
ABN 62 129 445 398

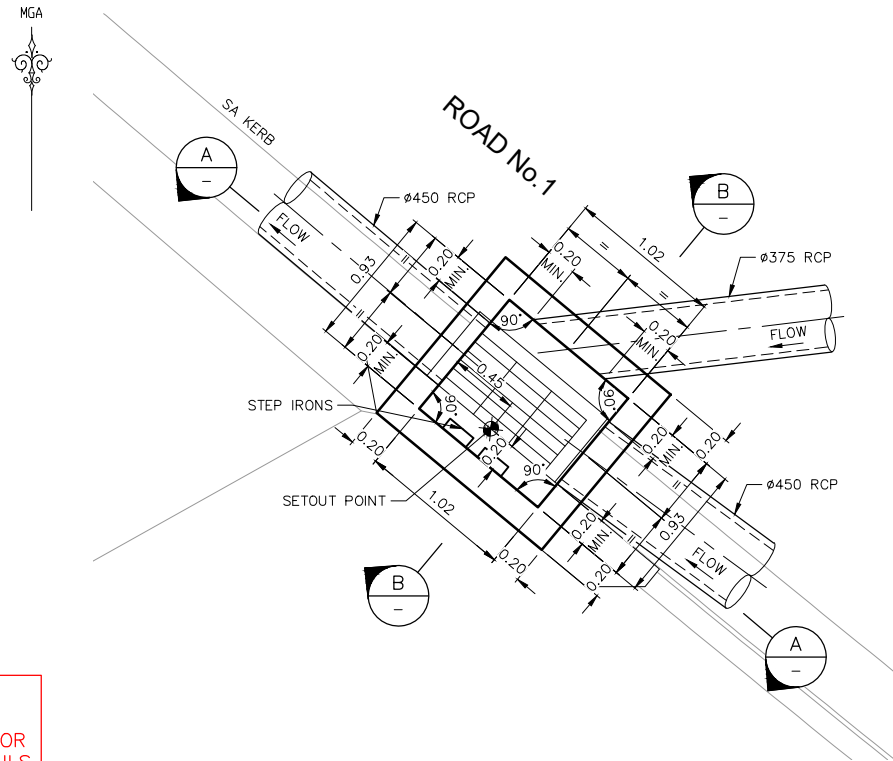
CLIENT

FRASERS PROPERTY

PROPERTY DESCRIPTION

LOT 100 D.P.1262209 & LOT 1 D.P.859537
EPPING ROAD & LYONPARK ROAD,
MACQUARIE PARK
SSDA 8903

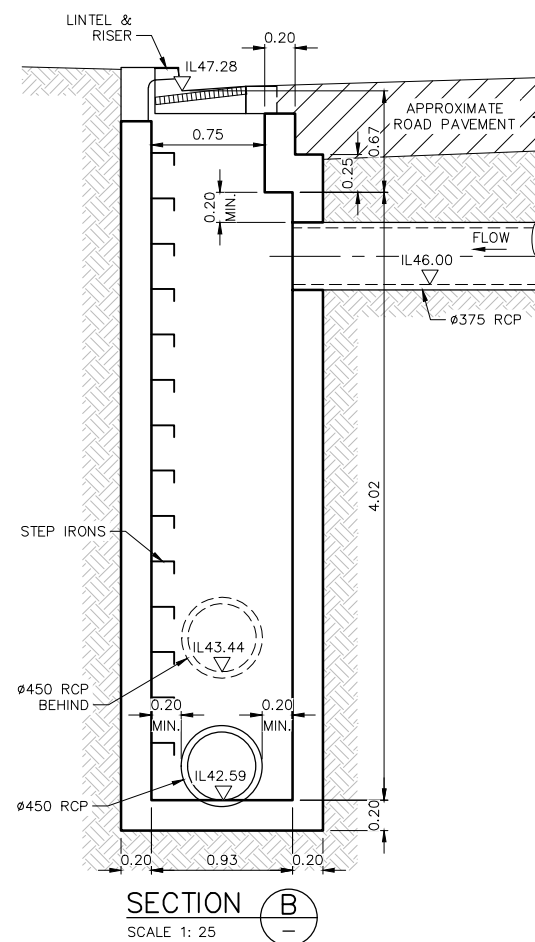
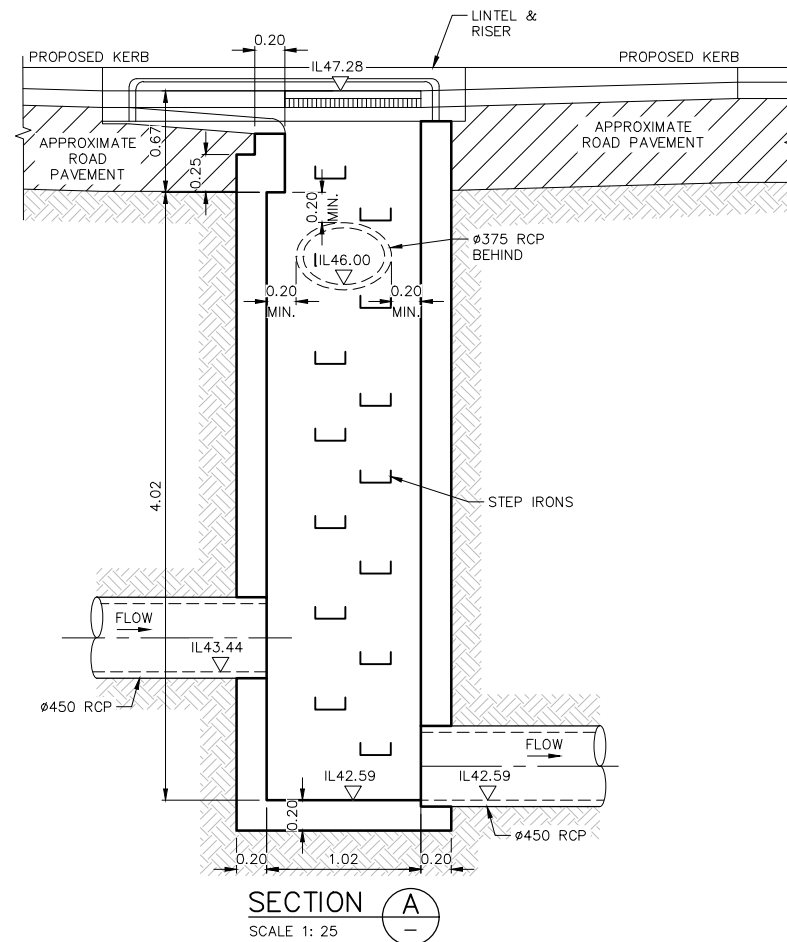
PROJECT	PLAN TITLE	PROJECT No.	DISCIPLINE	NUMBER	REV.
PROPOSED SUBDIVISION	CUSTOM STORMWATER PIT PIT No. 15\4	300001(2) -	ENG -	491	1



NOTE:
REFER SHEET 495 FOR
REINFORCEMENT DETAILS.

DETAIL PLAN - PIT 15/5
SCALE 1:25

NOTE:
LOCKABLE GRATES ARE TO BE INSTALLED TO
PITS IN ACCORDANCE WITH RYDE CITY COUNCIL
STANDARD DRAWINGS AND SPECIFICATIONS.

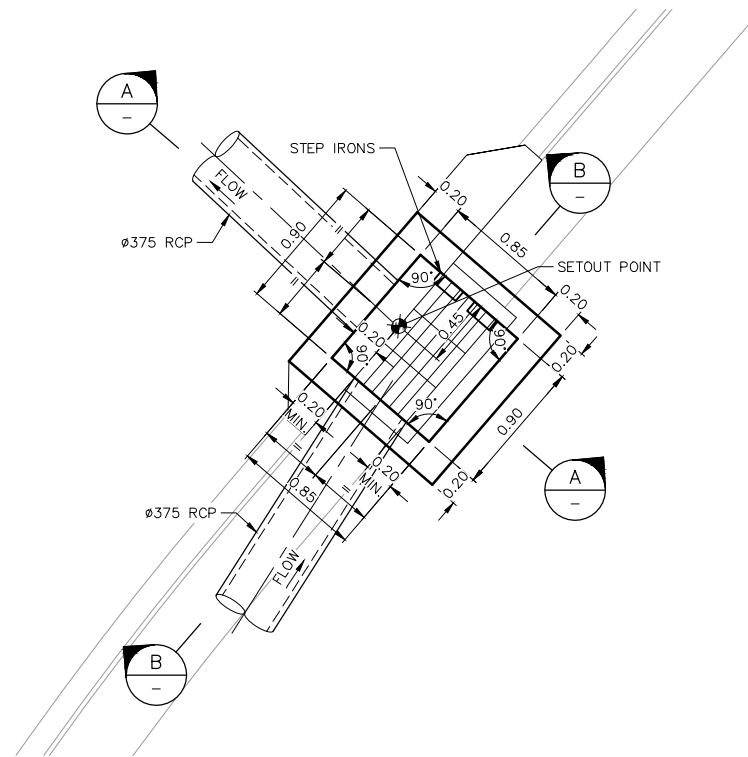


LDC These plans are referred to in certificate no. **16746** approved by:
Eric Hausfeld
Registered Certifier
Registration No: BDC 2416
Categories: Certifier - Subdivision
Certifier - Strata
Certifier - Stormwater
Certifier - Road & Drainage
Certifier - Hydraulic (stormwater)
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CONSTRUCTION ISSUE

REV.	DATE	AMENDMENT	DESIGN	DRAWN	CHECKED	APPROVED	SCALES	CLIENT	PROPERTY DESCRIPTION	PROJECT
1	21.01.22	ISSUED FOR CONSTRUCTION	B.M.	J.J.	B.M.	B.M.	A1 1:25 0 0.25 0.50 0.75 1.00 1.25m A3 1:50	Central Coast 5 Pioneer Avenue, P.O. Box 3717, Tuggerah N.S.W. 2259 Phone: (02) 4305 4300 Fax: (02) 4305 4399 email: coast@adwjohnson.com.au www.adwjohnson.com.au ABN 62 129 445 398	FRASERS PROPERTY	PROPOSED SUBDIVISION
DESIGN FILE S:\300001\DESIGN\12D\STAGE 2 CC\DESIGN FILE.project			ALL DIMENSIONS ARE IN METRES. DO NOT SCALE			LOT 100 D.P.1262209 & LOT 1 D.P.859537 EPPING ROAD & LYONPARK ROAD, MACQUARIE PARK SSDA 8903				
Plotted By: Ben Myles Plot Date: 21/01/22 2:33:26PM Cad File: S:\300001\DRAWINGS\ENGINEERING\CIVIL\STAGE 2 CC ENG\300001(2)-ENG-492.DWG			PROJECT No. 300001(2) -			DISCIPLINE ENG			NUMBER 492	
									REV. 1	



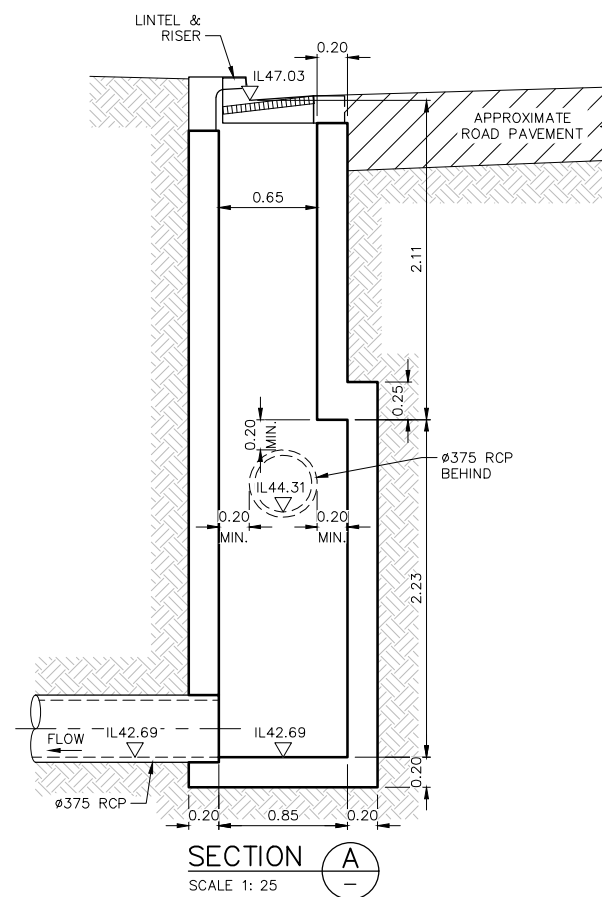
DETAIL PLAN - PIT 100/4
SCALE 1:25

NOTE:

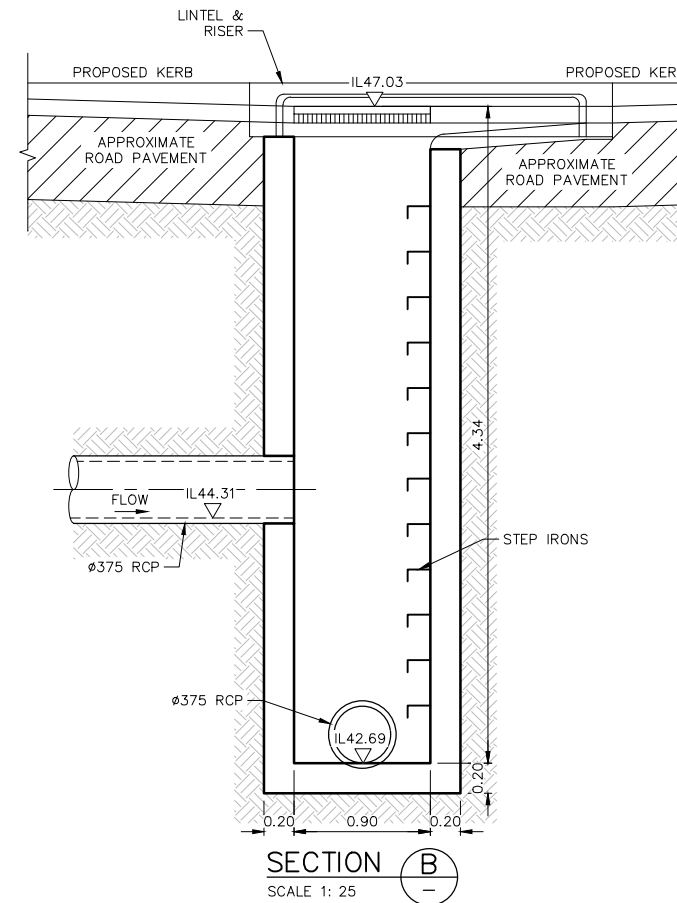
REFER SHEET 495 FOR
REINFORCEMENT DETAILS.

NOTE:

LOCKABLE GRATES ARE TO BE INSTALLED TO
PITS IN ACCORDANCE WITH RYDE CITY COUNCIL
STANDARD DRAWINGS AND SPECIFICATIONS.



SECTION A-A
SCALE 1: 25



SECTION B-B
SCALE 1: 25

These plans are referred to in
certificate no. **16746** approved by:

Eric Hausfeld
Registered Certifier

Registration No: BDC 2416
Categories: Certifier - Subdivision
Certifier - Strata
Certifier - Stormwater
Certifier - Road & Drainage
Certifier - Hydraulic (stormwater)

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CONSTRUCTION ISSUE

REV.	DATE	AMENDMENT	DESIGN	DRAWN	CHECKED	APPROVED	SCALES
1	21.01.22	ISSUED FOR CONSTRUCTION	B.M.	J.J.	B.M.	B.M.	

adw Johnson

Central Coast
5 Pioneer Avenue,
P.O. Box 3717,
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Fax: (02) 4305 4399
email: coast@adwjohnson.com.au
www.adwjohnson.com.au
ABN 62 129 445 398

CLIENT

**FRASERS
PROPERTY**

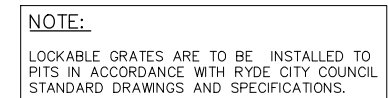
PROPERTY DESCRIPTION

LOT 100 D.P.1262209 & LOT 1 D.P.859537
EPPING ROAD & LYONPARK ROAD,
MACQUARIE PARK
SSDA 8903

SURVEYED
ADW Johnson

DATUM
GDA94 M.G.A. ZONE 56 A.H.D.

PROJECT		PROPOSED SUBDIVISION			
PLAN TITLE		CUSTOM STORMWATER PIT PIT No. 100/4			
PROJECT No.	DISCIPLINE	NUMBER		REV.	
300001(2) -	ENG -	493		1	



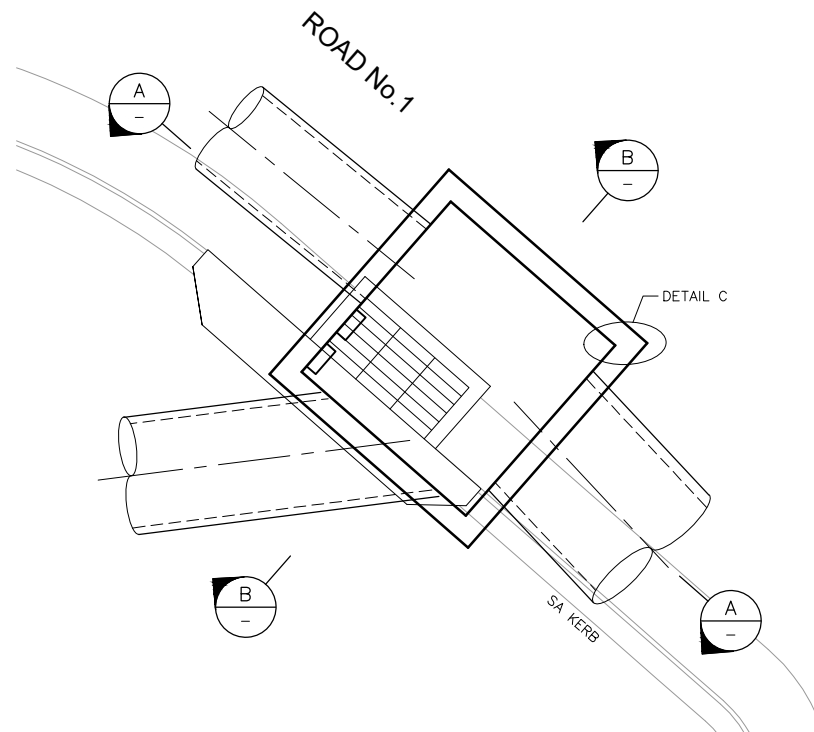
NOTE:
CONTRACTOR TO CONFIRM EXISTING 1200Ø PIPE LEVELS PRIOR TO COMMENCING CONSTRUCTION.

	These plans are referred to in certificate no. 16746 approved by: Eric Hausfeld Registered Certifier Registration No: BDC 2416 Categories: - Certifier – Subdivision - Certifier – Strata - Certifier – Stormwater - Certifier – Road & Drainage - Certifier – Hydraulic (stormwater)
Land Development Certificates www.LDC.com.au	



CONSTRUCTION ISSUE

REV.		DATE	AMENDMENT	DESIGN	DRAWN	CHECKED	APPROVED	SCALES	 Central Coast 5 Pioneer Avenue, P.O. Box 3717, Tuggerah N.S.W. 2259 Phone: (02) 4305 4300 Fax: (02) 4305 4399 email: coast@adwjohnson.com.au www.adwjohnson.com.au ABN 62 129 445 398	 FRASERS PROPERTY	CLIENT	PROPERTY DESCRIPTION LOT 100 D.P.1262209 & LOT 1 D.P.859537 EPPING ROAD & LYONPARK ROAD, MACQUARIE PARK SSDA 8903		PROJECT						
1		21.01.22		ISSUED FOR CONSTRUCTION		B.M.	J.J.	B.M.						B.M.	PLAN TITLE CUSTOM STORMWATER PIT PIT No. 101/1					
DESIGN FILE S:\300001\DESIGN\12D\STAGE 2 CC\DESIGN FILE.project									ALL DIMENSIONS ARE IN METRES. DO NOT SCALE				SURVEYED ADW Johnson		DATUM GDA94 M.G.A. ZONE 56 A.H.D.		PROJECT No. 300001(2) -	DISCIPLINE ENG -	NUMBER 494	REV. 1



DETAIL PLAN - TYPICAL PIT
SCALE 1:25

TYPICAL CUSTOM PIT DETAILS:

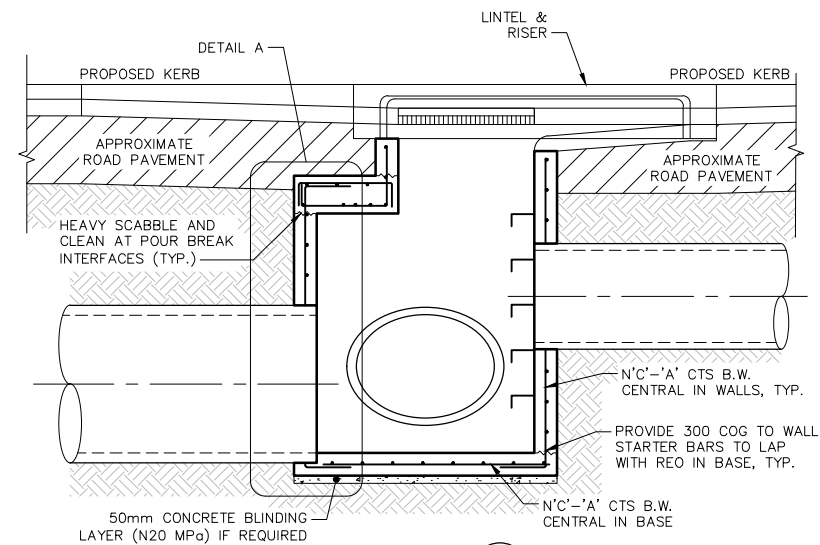
- CONCRETE GRADE - 32MPa (80mm SLUMP, 20mm AGGREGATE GP CEMENT)
- CONCRETE COVER (CAST AGAINST GROUND) - 50mm
- CONCRETE COVER (EXPOSED TO ATMOSPHERE) - 50mm

NOTE:

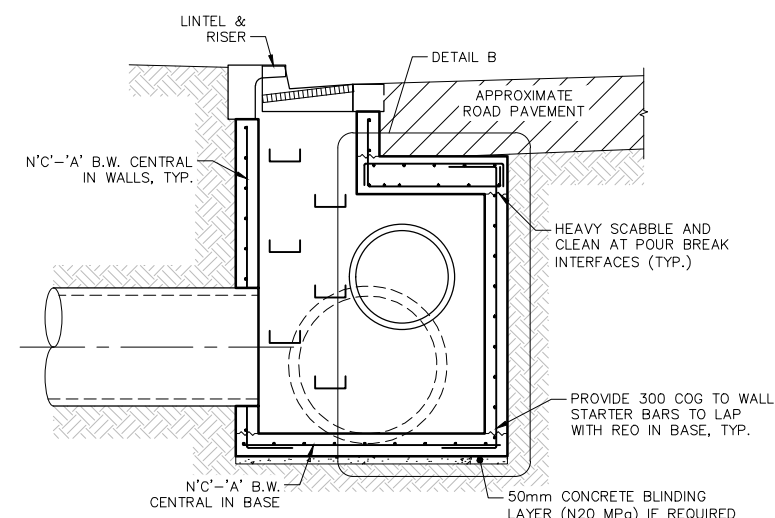
REFER TO SHEETS 481 TO 494 & 499 FOR PIT DIMENSIONS & WALL/LID SLAB/BASE THICKNESSES.

NOTE:

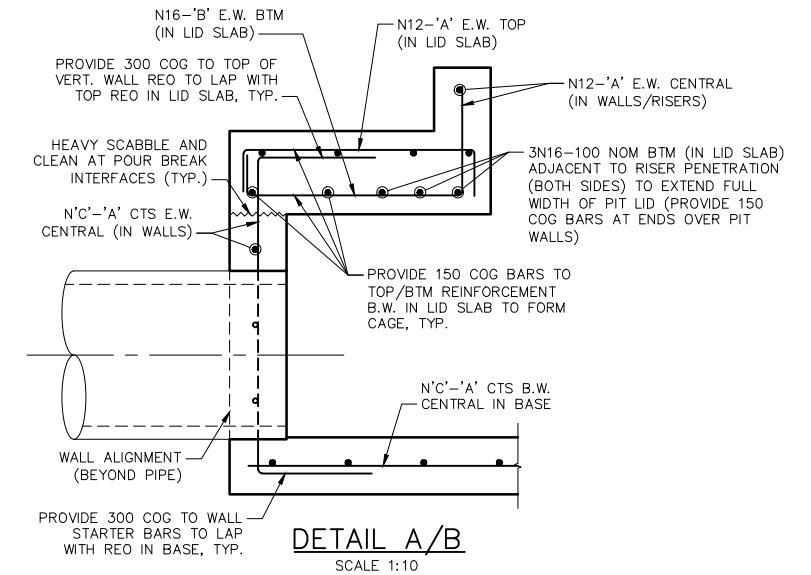
REFER TO SHEET 497 FOR TYPICAL TRIMMER BAR AROUND PIPE PENETRATIONS.



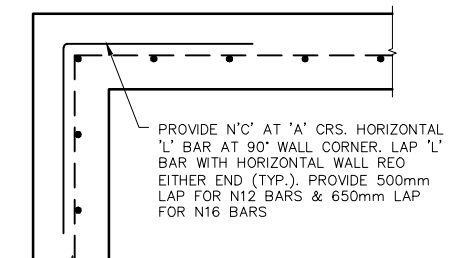
SECTION A
SCALE 1:25



SECTION B
SCALE 1:25



DETAIL A/B
SCALE 1:10



DETAIL C
90° CORNER REINFORCEMENT DETAILS
(SINGLE LAYER REINFORCEMENT)
SCALE 1:10

REINFORCEMENT TABLE			
PIT	'A'	'B'	'C'
1\10	200	200	16
1\14	200	200	12
1\15	200	200	12
1\16	200	200	12
1\17	200	200	16
3\9	200	200	12
3\10	200	200	12
3\11	200	200	12
3\12	200	200	12
3\13	200	200	12
15\3	200	200	16
15\4	200	200	16
15\5	200	200	16
100\4	200	200	16



These plans are referred to in certificate no. **16746** approved by:

Eric Hausfeld
Registered Certifier

Registration No: BDC 2416

Categories: Certifier - Subdivision
Certifier - Strata
Certifier - Stormwater
Certifier - Road & Drainage
Certifier - Hydraulic (stormwater)

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CONSTRUCTION ISSUE

REV.	DATE	AMENDMENT	DESIGN	DRAWN	CHECKED	APPROVED	SCALES
1	21.01.22	ISSUED FOR CONSTRUCTION	B.M.	J.J.	B.M.	B.M.	A1 1:25 0 0.25 0.50 0.75 1.00 1.25m A3 1:50 A1 1:10 0 0.25 0.5m A3 1:20

DESIGN FILE S:\300001\DESIGN\12D\STAGE 2 CC\DESIGN FILE.project

ALL DIMENSIONS ARE IN METRES. DO NOT SCALE



Central Coast
5 Pioneer Avenue,
P.O. Box 3717,
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Fax: (02) 4305 4399
email: coast@adwjohnson.com.au
www.adwjohnson.com.au
ABN 62 129 445 398

CLIENT



PROPERTY DESCRIPTION

LOT 100 D.P.1262209 & LOT 1 D.P.859537
EPPING ROAD & LYONPARK ROAD,
MACQUARIE PARK
SSDA 8903

SURVEYED
ADW Johnson

DATUM
GDA94 M.G.A. ZONE 56 A.H.D.

PROJECT

PROPOSED SUBDIVISION

PLAN TITLE

TYPICAL CUSTOM STORMWATER
PIT DETAILS
SHEET 1

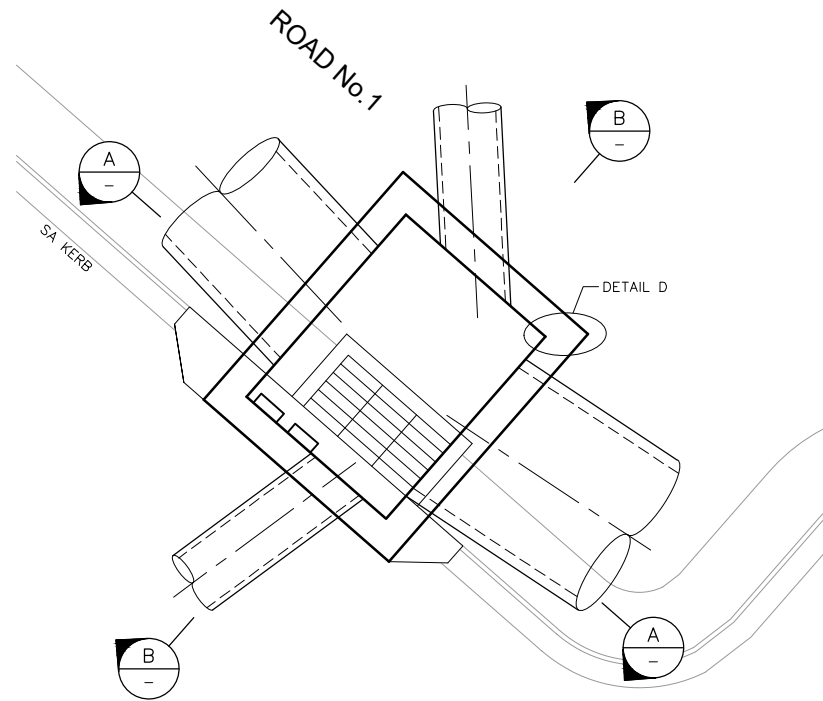
PROJECT No.
300001(2) -

DISCIPLINE
ENG -

NUMBER
495

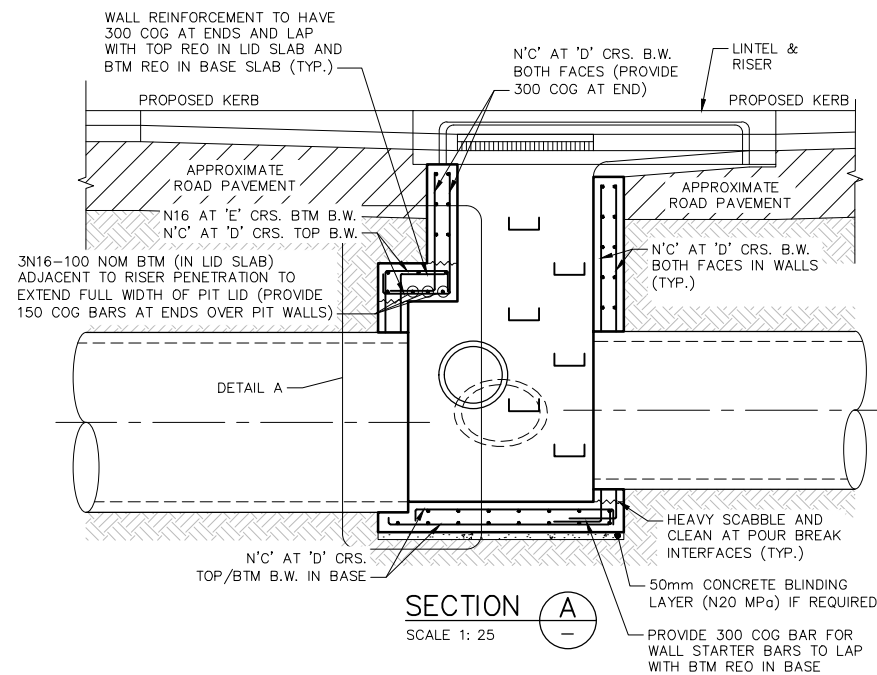
REV.
1

Plotted By: Ben Myles Plot Date: 21/01/22 2:33:43PM Cad File: S:\300001\DRAWINGS\ENGINEERING\CIVIL\STAGE 2 CC ENG\300001(2)-ENG-495.DWG



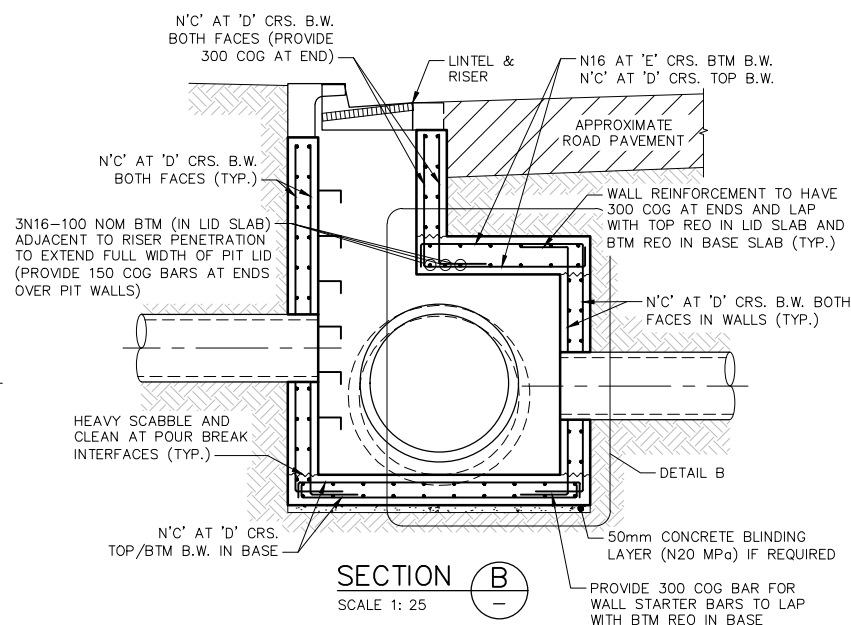
DETAIL PLAN - TYPICAL PIT

SCALE 1:25



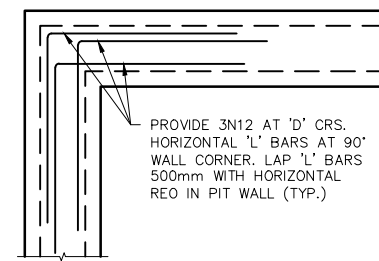
SECTION A

SCALE 1: 25



SECTION B

SCALE 1: 25



DETAIL D

90° CORNER REINFORCEMENT DETAILS
(DOUBLE LAYER REINFORCEMENT)
SCALE 1:10

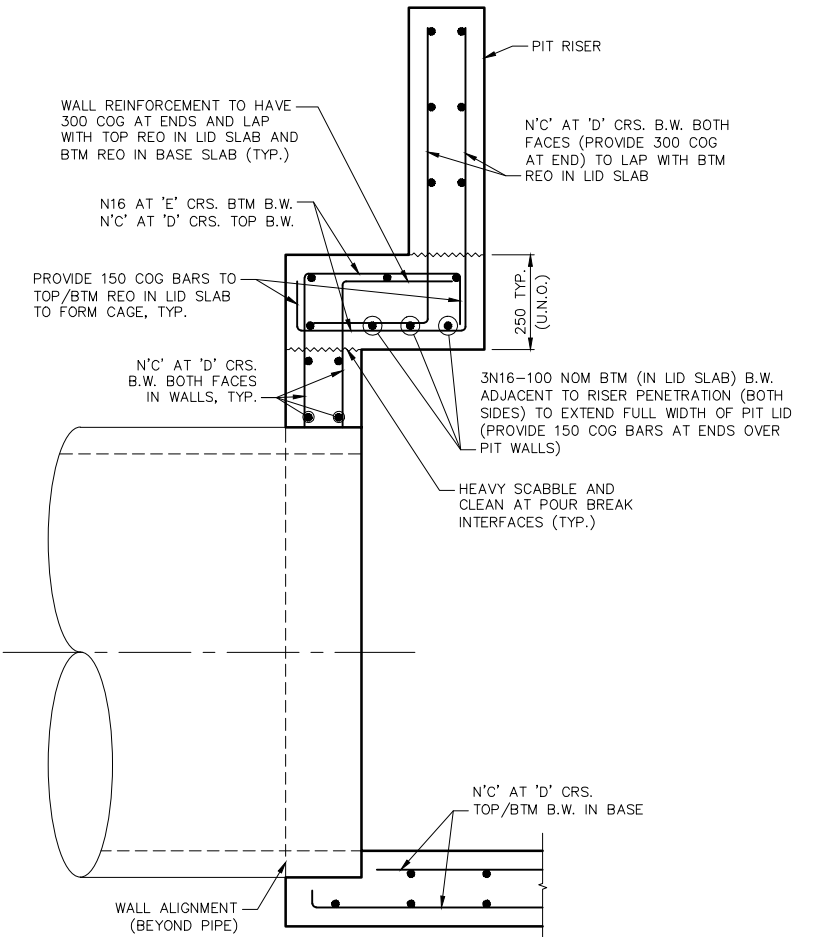
REINFORCEMENT TABLE

PIT	'C'	'D'	'E'
101\1	16	200	200

TYPICAL CUSTOM PIT DETAILS:

- CONCRETE GRADE - 32MPa (80mm SLUMP, 20mm AGGREGATE GP CEMENT)
- CONCRETE COVER (CAST AGAINST GROUND) - 50mm
- CONCRETE COVER (EXPOSED TO ATMOSPHERE) - 50mm

NOTE:

REFER TO SHEETS 481 TO 494 & 499 FOR PIT
DIMENSIONS & WALL/LID SLAB/BASE THICKNESSES.

DETAIL A/B

SCALE 1:10

NOTE:

REFER TO SHEET 497 FOR TYPICAL TRIMMER
BAR AROUND PIPE PENETRATIONS.

These plans are referred to in
certificate no. **16746** approved by:
Eric Hausfeld
Registered Certifier
Registration No: BDC 2416
Categories: Certifier - Subdivision
Certifier - Strata
Certifier - Stormwater
Certifier - Road & Drainage
Certifier - Hydraulic (stormwater)

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CONSTRUCTION ISSUE

REV.	DATE	AMENDMENT	DESIGN	DRAWN	CHECKED	APPROVED	SCALES
1	21.01.22	ISSUED FOR CONSTRUCTION	B.M.	J.J.	B.M.	B.M.	A1 1:25 0 0.25 0.50 0.75 1.00 1.25m A3 1:50 A1 1:10 0 0.25 0.5m A3 1:20

DESIGN FILE S:\300001\DESIGN\12D\STAGE 2 CC\DESIGN FILE.project
Plotted By: Ben Myles Plot Date: 21/01/22 2:33:49PM Cad File: S:\300001\DRAWINGS\ENGINEERING\CIVIL\STAGE 2 CC ENG\300001(2)-ENG-496.DWG



Central Coast
5 Pioneer Avenue,
P.O. Box 3717,
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Phone: (02) 4305 4300
Fax: (02) 4305 4399
email: coast@adwjohnson.com.au
www.adwjohnson.com.au
ABN 62 129 445 398

CLIENT



PROPERTY DESCRIPTION

LOT 100 D.P.1262209 & LOT 1 D.P.859537
EPPING ROAD & LYONPARK ROAD,
MACQUARIE PARK
SSDA 8903

SURVEYED

ADW Johnson

DATUM

GDA94 M.G.A. ZONE 56 A.H.D.

PROJECT

PROPOSED SUBDIVISION

PLAN TITLE

TYPICAL CUSTOM STORMWATER
PIT DETAILS
SHEET 2

PROJECT No.

300001(2) -

DISCIPLINE

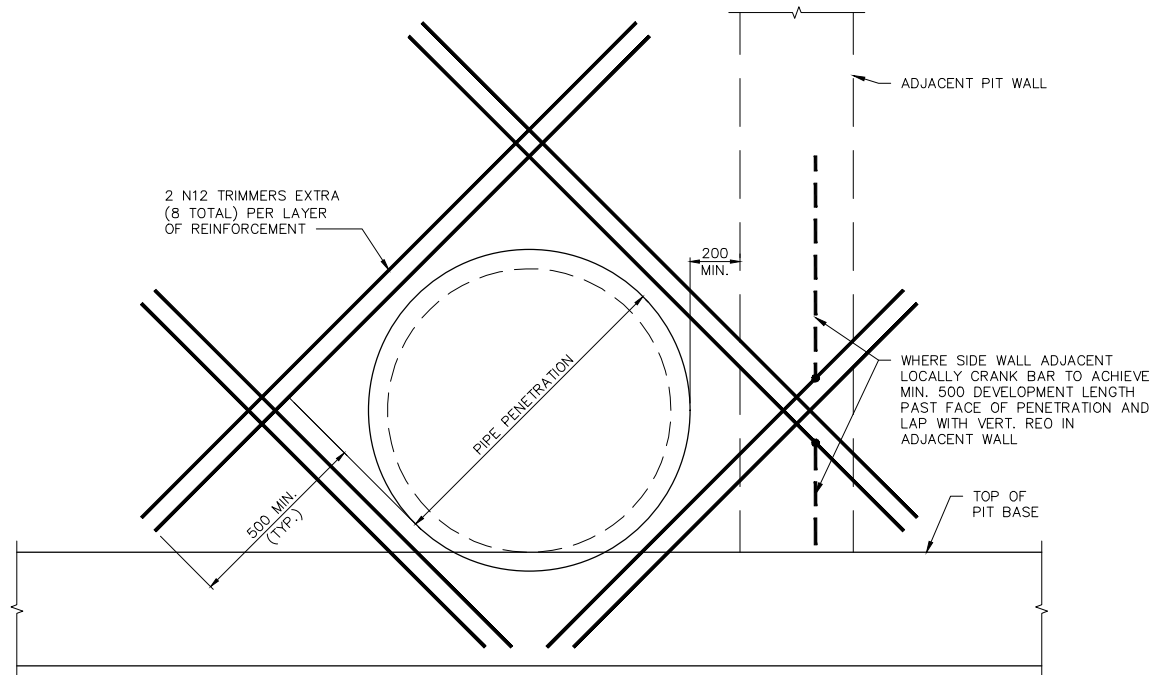
ENG

NUMBER

496

REV.

1



TYPICAL TRIMMER BAR DETAIL
AROUND SINGLE PIPE PENETRATION
SCALE 1:10



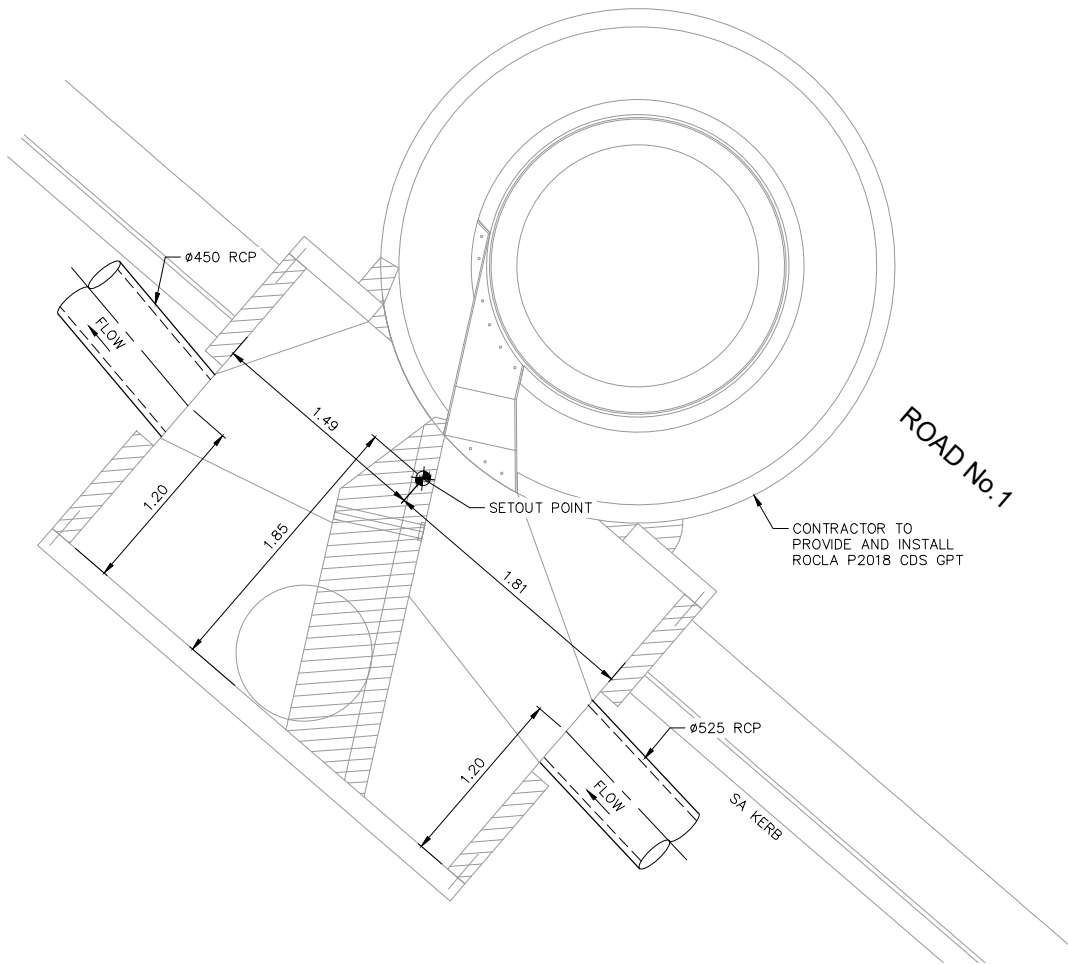
These plans are referred to in certificate no. **16746** approved by:
Eric Hausfeld
Registered Certifier
Registration No: BDC 2416
Categories: Certifier – Subdivision
Certifier – Strata
Certifier – Stormwater
Certifier – Road & Drainage
Certifier – Hydraulic (stormwater)

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CONSTRUCTION ISSUE

REV.		DATE	AMENDMENT	DESIGN	DRAWN	CHECKED	APPROVED	SCALES		Central Coast 5 Pioneer Avenue, P.O. Box 3717, Tuggerah N.S.W. 2259 Phone: (02) 4305 4300 Fax: (02) 4305 4399 email: coast@adwjohnson.com.au www.adwjohnson.com.au ABN 62 129 445 398		CLIENT	PROPERTY DESCRIPTION		PROJECT								
				PROPOSED SUBDIVISION		PLAN TITLE																	
				TYPICAL CUSTOM STORMWATER PIT DETAILS SHEET 3																			
DESIGN FILE S:\300001\DESIGN\12D\STAGE 2 CC\DESIGN FILE.project								ALL DIMENSIONS ARE IN METRES. DO NOT SCALE				SURVEYED ADW Johnson		DATUM GDA94 M.G.A. ZONE 56 A.H.D.		PROJECT No. 300001(2) –		DISCIPLINE ENG –		NUMBER 497		REV. 1	



SETOUT PLAN – PIT 101\2

SCALE 1:25

NOTE:

REFER SHEET 411 FOR SETOUT DETAILS



These plans are referred to in certificate no. **16746** approved by:

Eric Hausfeld
Registered Certifier

Registration No: BDC 2416

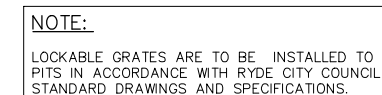
Categories: Certifier – Subdivision
Certifier – Strata
Certifier – Stormwater
Certifier – Road & Drainage
Certifier – Hydraulic (stormwater)

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CONSTRUCTION ISSUE

REV.	DATE	AMENDMENT	DESIGN	DRAWN	CHECKED	APPROVED	SCALES		Central Coast 5 Pioneer Avenue, P.O. Box 3717, Tuggerah N.S.W. 2259 Phone: (02) 4305 4300 Fax: (02) 4305 4399 email: coast@adwjohnson.com.au www.adwjohnson.com.au ABN 62 129 445 398	CLIENT 	PROPERTY DESCRIPTION		PROJECT						
1	21.01.22	ISSUED FOR CONSTRUCTION	B.M.	J.J.	B.M.	B.M.	A1 1:25  A3 1:50				LOT 100 D.P.1262209 & LOT 1 D.P.859537 EPPING ROAD & LYONPARK ROAD, MACQUARIE PARK SSDA 8903		PROPOSED SUBDIVISION						
DESIGN FILE S:\300001\DESIGN\12D\STAGE 2 CC\DESIGN FILE.project											ALL DIMENSIONS ARE IN METRES. DO NOT SCALE		SURVEYED ADW Johnson		DATUM GDA94 M.G.A. ZONE 56 A.H.D.		PLAN TITLE STORMWATER PIT 101\2 SETOUT PLAN		
												PROJECT No. 300001(2) -		DISCIPLINE ENG -		NUMBER 498		REV. 1	



SCALE 1:25



Plotted By: Ben Myles Plot Date: 21/01/22 2:34:04PM Cad File: S:\300001\DRAWINGS\ENGINEERING\CIVIL\STAGE 2 CC ENG\300001(2)-ENG-499.DWG

LEGEND (+ FILL - CUT)		
Lower	Upper	Colour
-4.00 to	-3.50 m	
-3.50 to	-3.00 m	
-3.00 to	-2.50 m	
-2.50 to	-2.00 m	
-2.00 to	-1.50 m	
-1.50 to	-1.00 m	
-1.00 to	-0.50 m	
-0.50 to	-0.00 m	
0.00001 to	0.50 m	
0.50 to	1.00 m	
1.00 to	1.50 m	
1.50 to	2.00 m	
2.00 to	2.50 m	
2.50 to	3.00 m	

VOLUMES:	
CUT =	-6,600m ³
FILL =	3,350m ³
EXCESS =	3,250m ³

LDC These plans are referred to in certificate no. **16746** approved by:
Eric Hausfeld
Registered Certifier
Registration No: BDC 2416
Categories: Certifier - Subdivision
Certifier - Strata
Certifier - Stormwater
Certifier - Road & Drainage
Certifier - Hydraulic (stormwater)

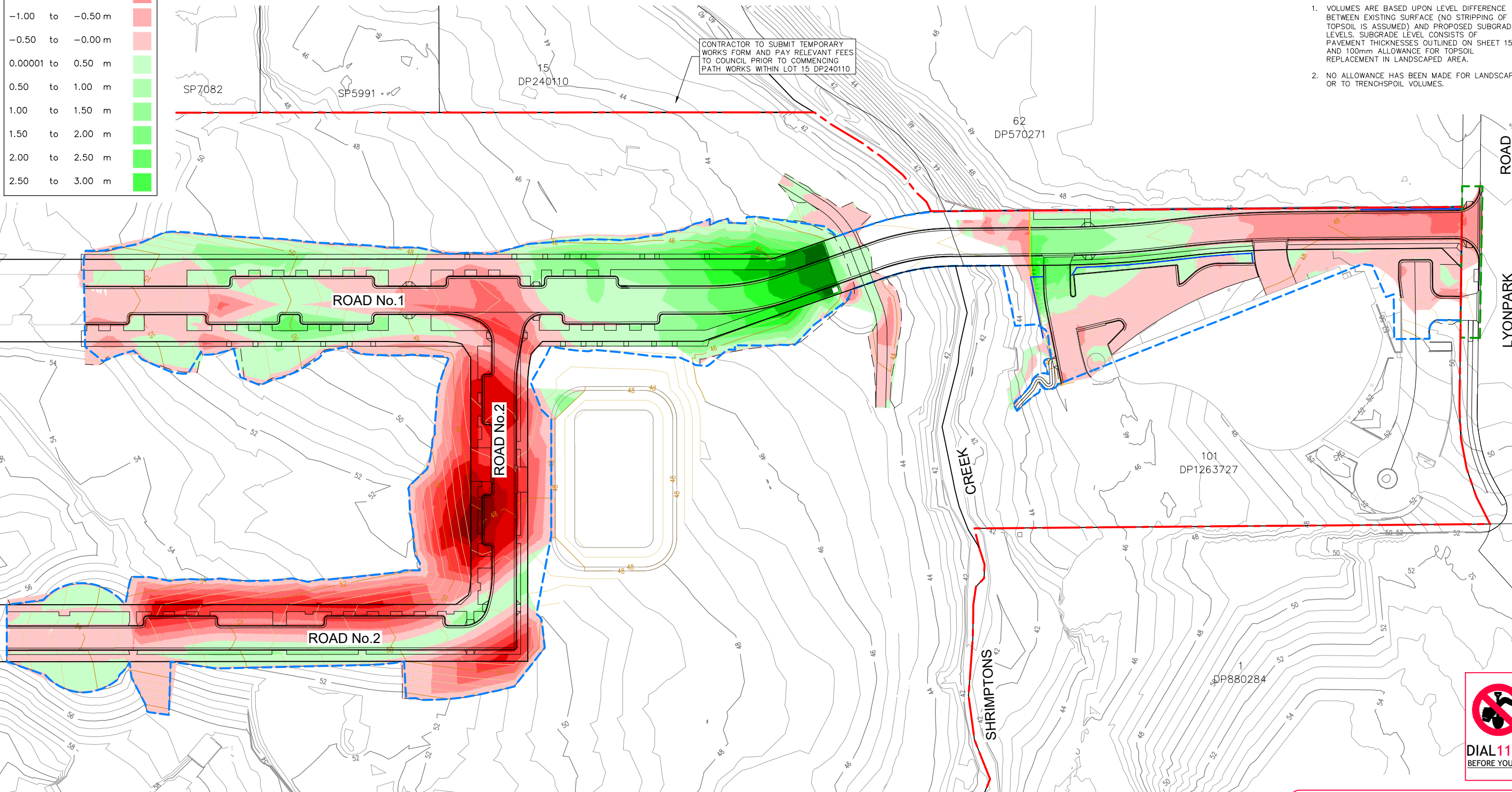
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LEGEND	
	SITE BOUNDARY
	LIMIT OF WORKS BOUNDARY
	PROPOSED LOT BOUNDARY
	EXISTING LOT BOUNDARY
	MAJOR CONTOURS
	MINOR CONTOURS
	PROPOSED KERB
	EXISTING KERB
	EXTENTS OF BATTER

CONTOUR INTERVAL = 0.5m

GENERAL NOTES: -

- VOLUMES ARE BASED UPON LEVEL DIFFERENCE BETWEEN EXISTING SURFACE (NO STRIPPING OF TOPSOIL IS ASSUMED) AND PROPOSED SUBGRADE LEVELS. SUBGRADE LEVEL CONSISTS OF PAVEMENT THICKNESSES OUTLINED ON SHEET 152 AND 100mm ALLOWANCE FOR TOPSOIL REPLACEMENT IN LANDSCAPED AREA.
- NO ALLOWANCE HAS BEEN MADE FOR LANDSCAPE OR TO TRENCHSPOIL VOLUMES.

SITE REGRADE PLAN
SCALE 1:500

CONSTRUCTION ISSUE

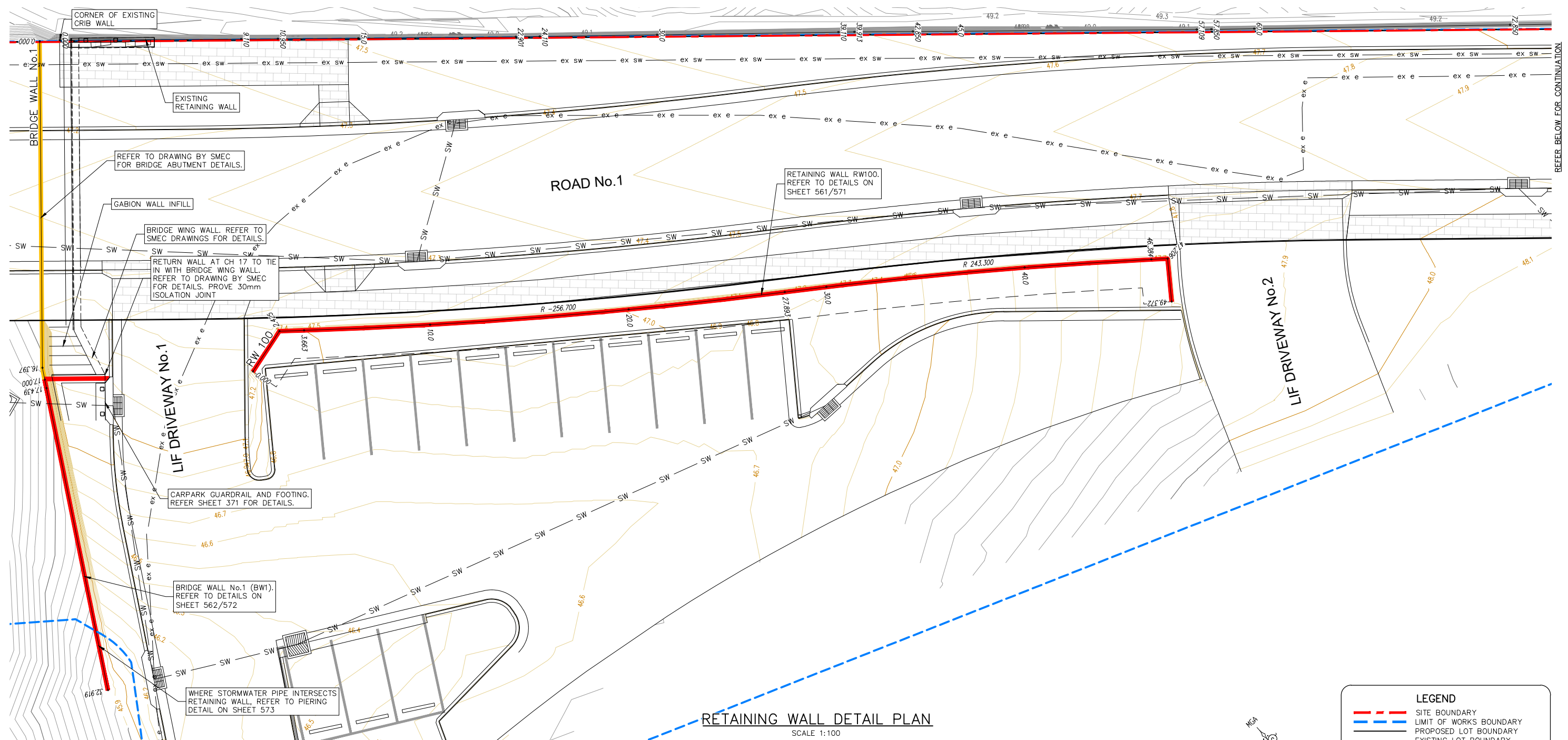
REV.	DATE	AMENDMENT	DESIGN	DRAWN	CHECKED	APPROVED	SCALES
1	21.01.22	ISSUED FOR CONSTRUCTION	B.M.	J.J.	B.M.	B.M.	A1 1:500 A3 1:1000

adw Johnson
Central Coast
5 Pioneer Avenue,
P.O. Box 3717,
Tuggerah N.S.W. 2259
Phone: (02) 4305 4300
Fax: (02) 4305 4399
email: coast@adwjohnson.com.au
www.adwjohnson.com.au
ABN 62 129 445 398

FRASERS PROPERTY

PROPERTY DESCRIPTION		
LOT 100 D.P.1262209 & LOT 1 D.P.859537 EPPING ROAD & LYONPARK ROAD, MACQUARIE PARK SSDA 8903		
SURVEYED ADW Johnson	DATUM GDA94 M.G.A. ZONE 56	A.H.D.

PROJECT		PROPOSED SUBDIVISION	
PLAN TITLE		SITE REGRADE PLAN	
PROJECT No.	DISCIPLINE	NUMBER	REV.
300001(2) -	ENG	501	1



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Registered Certifier

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CONSTRUCTION ISSUE

REV.	DATE	AMENDMENT	DESIGN	DRAWN	CHECKED	APPROVED	SCALES
1	21.01.22	ISSUED FOR CONSTRUCTION	B.M.	J.J.	B.M.	B.M.	A1 1:100 A3 1:200

adw Johnson

Central Coast
5 Pioneer Avenue,
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www.adwjohnson.com.au
ABN 62 129 445 398

FRASERS PROPERTY

PROPERTY DESCRIPTION

LOT 100 D.P.1262209 & LOT 1 D.P.859537
EPPING ROAD & LYONPARK ROAD,
MACQUARIE PARK
SSDA 8903

PROJECT

PROPOSED SUBDIVISION

PLAN TITLE

RETAINING WALL DETAIL PLAN

PROJECT No. 300001(2) - **DISCIPLINE** ENG - **NUMBER** 551 - **REV.** 1

REFER SHEET 571 FOR STRUCTURAL
DETAILS.



PT	CHAINAGE	EASTING	NORTHING	BEARING	RAD/SPIRAL	A.LENGTH	DEFL.ANGLE
IP 1	0.000	325810.261	6260204.923	74°32'07.70"			
IP 2	2.425	325812.598	6260295.570				
TC	3.663	325813.555	6260294.784	129°22'25.47"			
IP 3	15.778	325822.927	6260287.093		R = -256.700	24.230	5°24'29.35"
CC	27.893	325832.982	6260280.320	123°57'56.12"			
IP 4	37.138	325840.654	6260275.152		R = 243.300	18.491	4°21'16.13"
CC	46.364	325847.911	6260269.416	128°19'12.25"			
IP 5	47.206	325848.595	6260285.908				
IP 6	49.272	325849.285	6260262.152	215°54'44.73"			

	These plans are referred to in certificate no. 16746 approved by: Eric Hausfeld Registered Certifier Registration No: BDC 2416 Categories: - Certifier – Subdivision - Certifier – Strata - Certifier – Stormwater - Certifier – Road & Drainage - Certifier – Hydraulic (stormwater)	 DIAL 1100 BEFORE YOU DIG
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CONSTRUCTION ISSUE

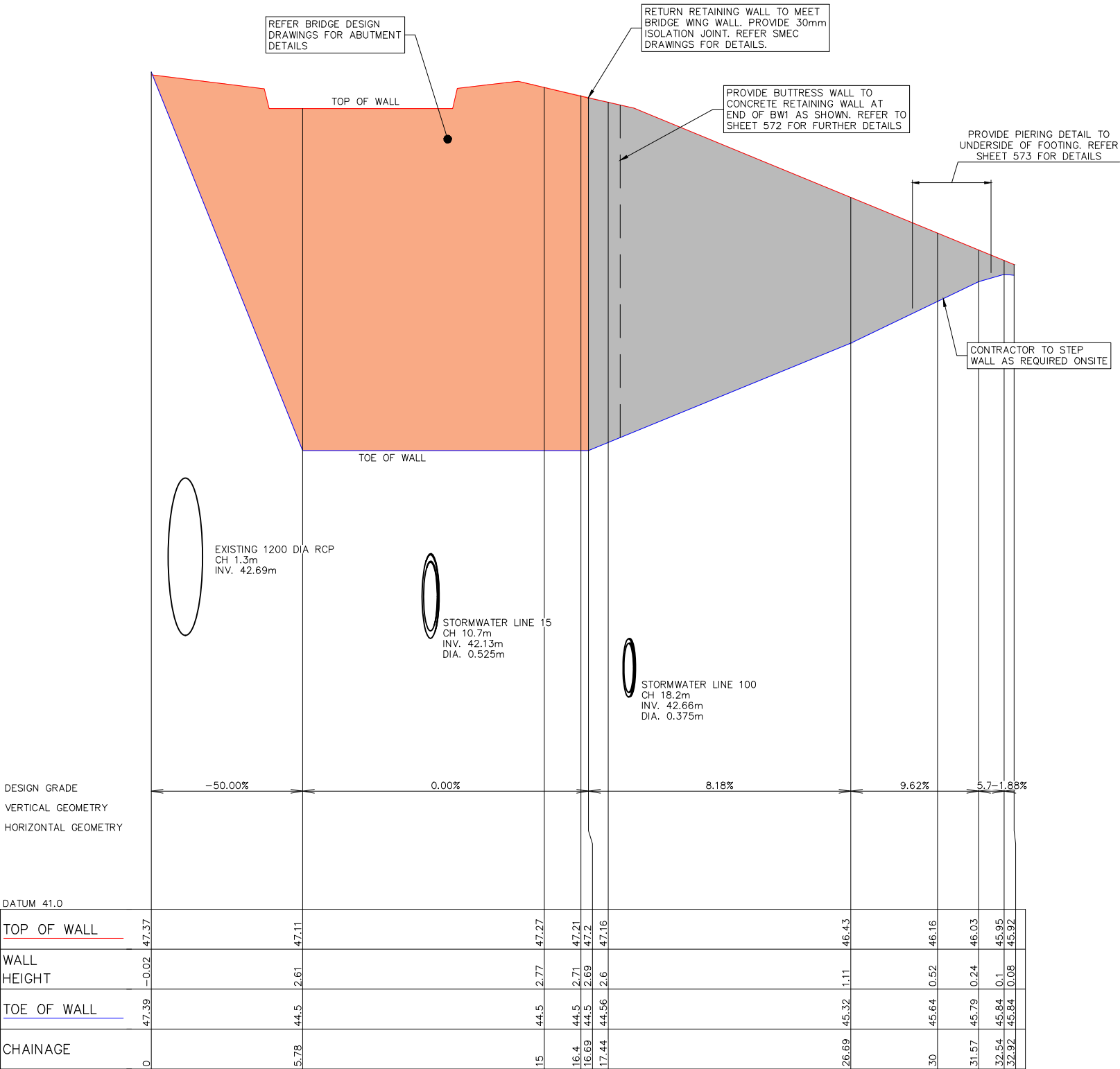
REV.		DATE	AMENDMENT		DESIGN	DRAWN	CHECKED	APPROVED	SCALES			Central Coast 5 Pioneer Avenue, P.O. Box 3717, Tuggerah N.S.W. 2259 Phone: (02) 4305 4300 Fax: (02) 4305 4399 email: coast@adwjohnson.com.au www.adwjohnson.com.au ABN 62 129 445 398	CLIENT 	PROPERTY DESCRIPTION			PROJECT								
1		21.01.22	ISSUED FOR CONSTRUCTION		B.M.	J.J.	B.M.	B.M.						LOT 100 D.P.1262209 & LOT 1 D.P.859537 EPPING ROAD & LYONPARK ROAD, MACQUARIE PARK SSDA 8903			PROPOSED SUBDIVISION								
														PLAN TITLE			RETAINING WALL LONGITUDINAL SECTION RW100								
DESIGN FILE S:\300001\DESIGN\12D\STAGE 2 CC\DESIGN FILE.project										ALL DIMENSIONS ARE IN METRES. DO NOT SCALE				SURVEYED ADW Johnson		DATUM GDA94 M.G.A. ZONE 56 A.H.D.		PROJECT No. 300001(2) -		DISCIPLINE ENG		NUMBER - 561		REV. 1	

LEGEND

DESIGN BY SMEC

DESIGN BY ADW JOHNSON

- NOTE:
- REFER SHEET 571 FOR STRUCTURAL DETAILS.
 - REFER TO DOUGLAS PARTNERS REPORT REFERENCE R.007.Rev0 DATED 2ND AUGUST FOR GLOBAL STABILITY ASSESSMENT.



LONGITUDINAL SECTION BRIDGE WALL No.1 (BW1)
HORIZONTAL SCALE 1:100
VERTICAL SCALE 1:20

LDC

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Certifier – Strata
Certifier – Stormwater
Certifier – Road & Drainage
Certifier – Hydraulic (stormwater)

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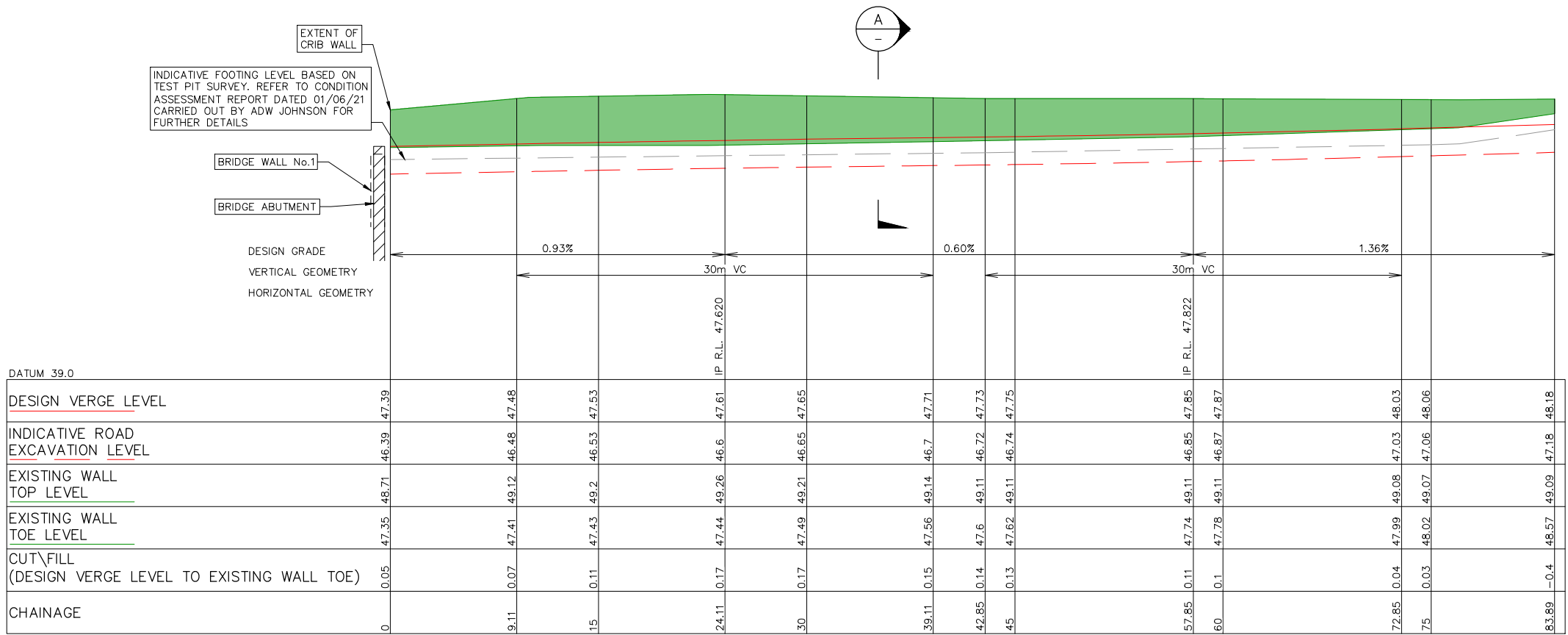
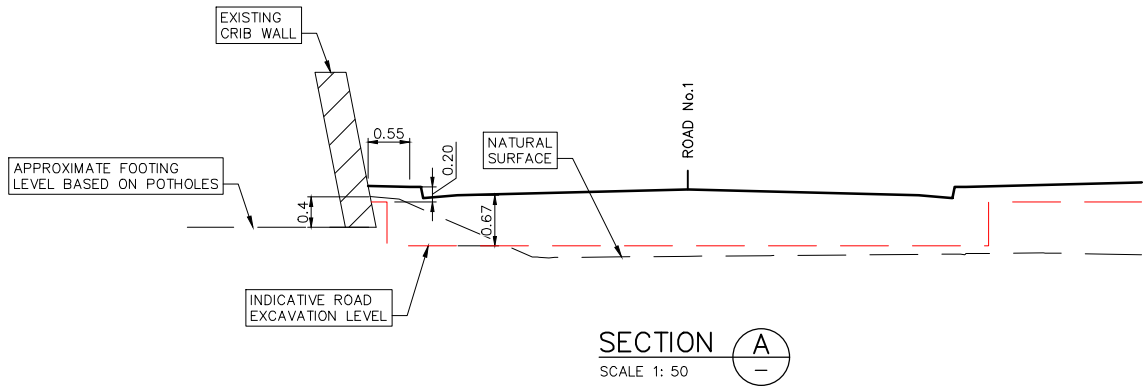


CONSTRUCTION ISSUE

REV.	DATE	AMENDMENT	DESIGN	DRAWN	CHECKED	APPROVED	SCALES	CLIENT	PROPERTY DESCRIPTION	PROJECT
1	21.01.22	ISSUED FOR CONSTRUCTION	B.M.	J.J.	B.M.	B.M.	A1 1:100 0 2.5 5.0m A3 1:200 A1 1:20 0 0.5 1.0m A3 1:40	Central Coast 5 Pioneer Avenue, P.O. Box 3717, Tuggerah N.S.W. 2259 Phone: (02) 4305 4300 Fax: (02) 4305 4399 email: coast@adwjohnson.com.au www.adwjohnson.com.au ABN 62 129 445 398 FRASERS PROPERTY	LOT 100 D.P.1262209 & LOT 1 D.P.859537 EPPING ROAD & LYONPARK ROAD, MACQUARIE PARK SSDA 8903	PROPOSED SUBDIVISION
									PLAN TITLE	
									RETAINING WALL LONGITUDINAL SECTION BRIDGE WALL No.1	
									PROJECT No. DISCIPLINE NUMBER REV.	
									300001(2) - ENG - 562 1	

NOTE:

1. REFER CONDITION ASSESSMENT REPORT BY ADWJOHNSON REFERENCE '210601_STRUCTURAL_REPORT_EXISTING_RETAINING_WALL_IVANHOE ESTATE_300001.FINAL' FOR EXISTING WALL CONDITION AND EXCAVATION CONDITIONS
2. REFER TO GEOTECHNICAL REPORT PREPARED BY DOUGLAS PARTNERS REFERENCE 86043.02 FOR CONSTRUCTION METHODOLOGY. WORKS TO BE UNDERTAKEN UNDER GEOTECHNICAL SUPERVISION.
3. CONTRACTOR TO UNDERTAKE DILAPIDATION SURVEY PRIOR TO COMMENCING WORKS.



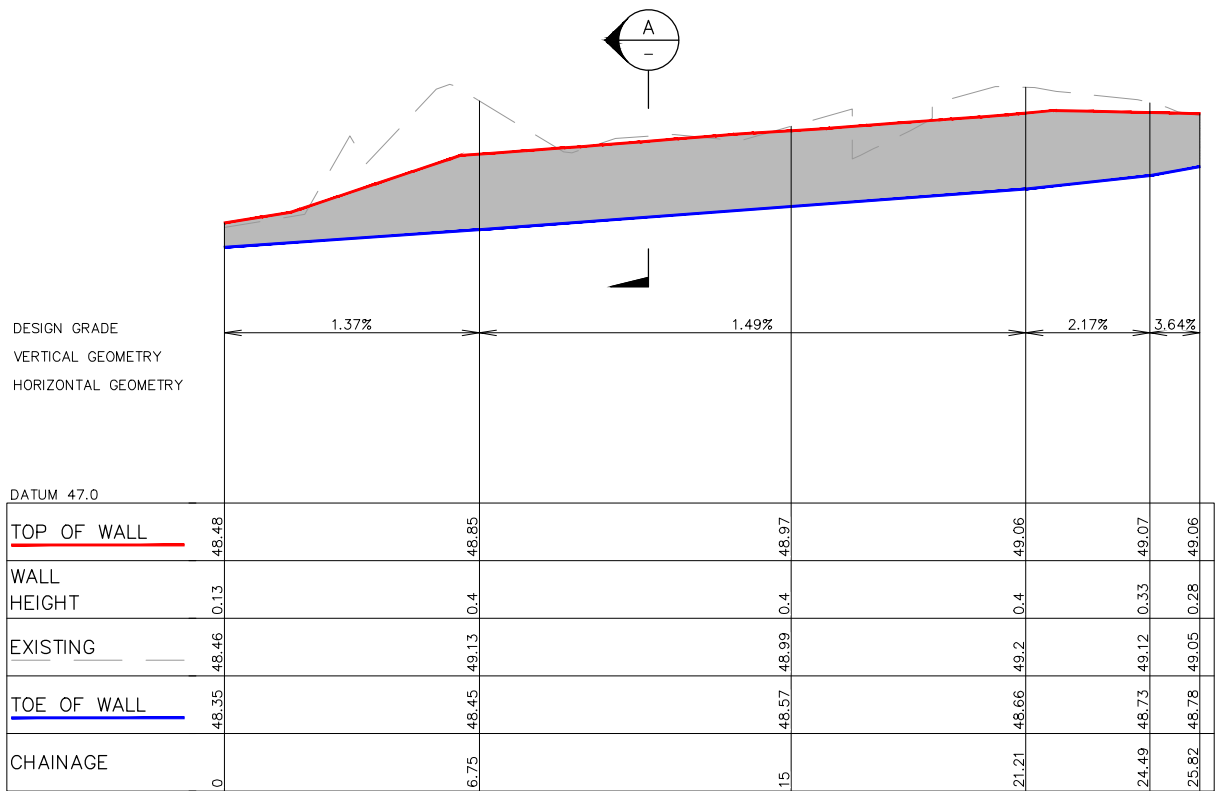
LONGITUDINAL SECTION - EXISTING RETAINING WALL
HORIZONTAL SCALE 1:200
VERTICAL SCALE 1:100

LDC These plans are referred to in certificate no. **16746** approved by:
Eric Hausfeld
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Certifier - Hydraulic (stormwater)
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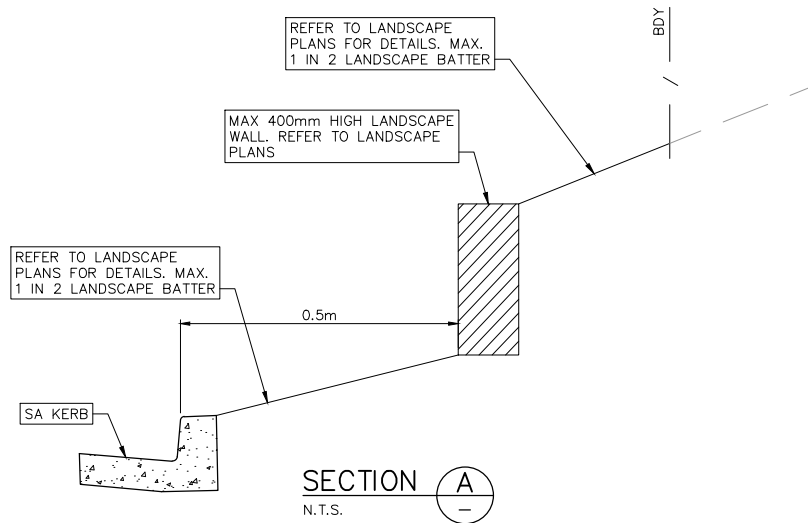


CONSTRUCTION ISSUE

REV.	DATE	AMENDMENT	DESIGN	DRAWN	CHECKED	APPROVED	SCALES	CLIENT	PROPERTY DESCRIPTION	PROJECT
1	21.01.22	ISSUED FOR CONSTRUCTION	B.M.	J.J.	B.M.	B.M.	A1 1:200 0 5.0 10.0m A3 1:400 A1 1:100 0 2.5 5.0m A3 1:200 A1 1:50 0 1.25 2.5m A3 1:100	Central Coast 5 Pioneer Avenue, P.O. Box 3717, Tuggerah N.S.W. 2259 Phone: (02) 4305 4300 Fax: (02) 4305 4399 email: coast@adwjohnson.com.au www.adwjohnson.com.au ABN 62 129 445 398 FRASERS PROPERTY	LOT 100 D.P.1262209 & LOT 1 D.P.859537 EPPING ROAD & LYONPARK ROAD, MACQUARIE PARK SSDA 8903	PROPOSED SUBDIVISION PLAN TITLE RETAINING WALL LONGITUDINAL SECTION EXISTING RETAINING WALL
DESIGN FILE S:\300001\DESIGN\12D\STAGE 2 CC\DESIGN FILE.project			ALL DIMENSIONS ARE IN METRES. DO NOT SCALE					SURVEYED ADW Johnson		DATUM GDA94 M.G.A. ZONE 56 A.H.D.
Plotted By: Ben Myles Plot Date: 21/01/22 2:34:39PM Cad File: S:\300001\DRAWINGS\ENGINEERING\CIVIL\STAGE 2 CC ENG\300001(2)-ENG-563.DWG			PROJECT No. 300001(2) -		DISCIPLINE ENG		NUMBER 563		REV. 1	



LONGITUDINAL SECTION RW101
HORIZONTAL SCALE 1:100
VERTICAL SCALE 1:20



LDC

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Eric Hausfeld
Registered Certifier

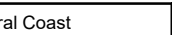
Registration No: BDC 2416

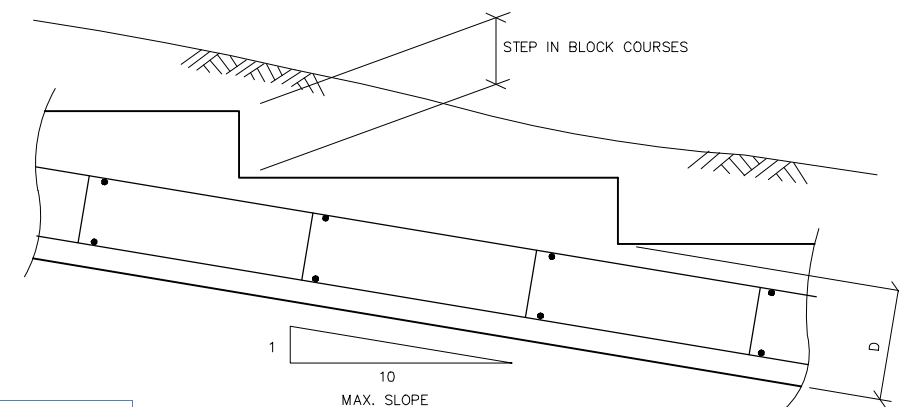
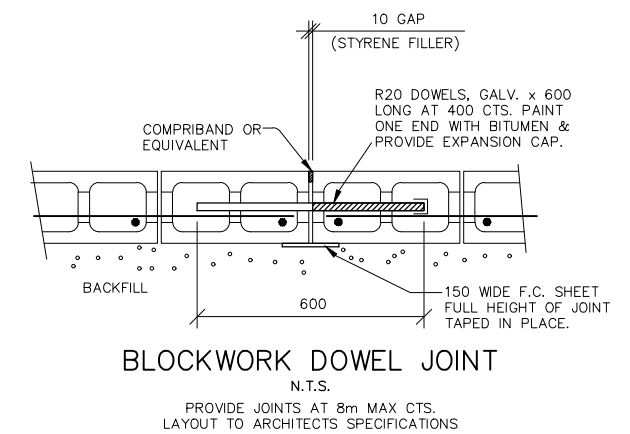
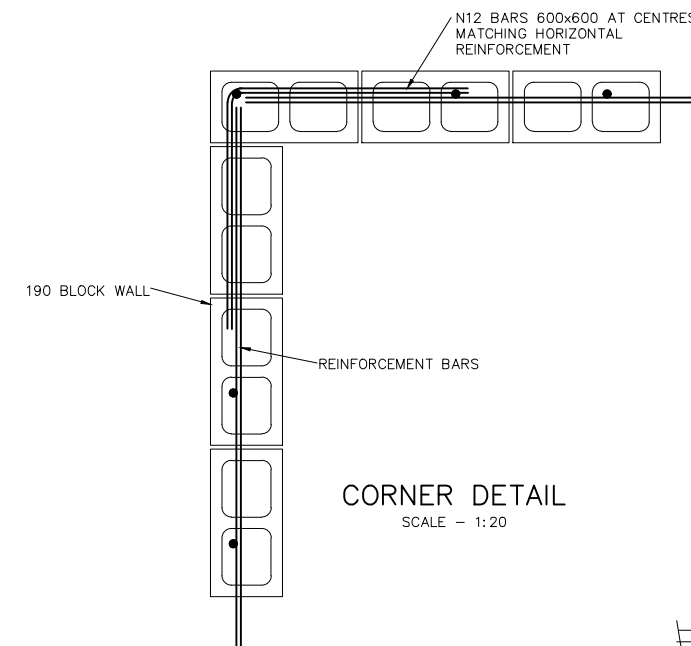
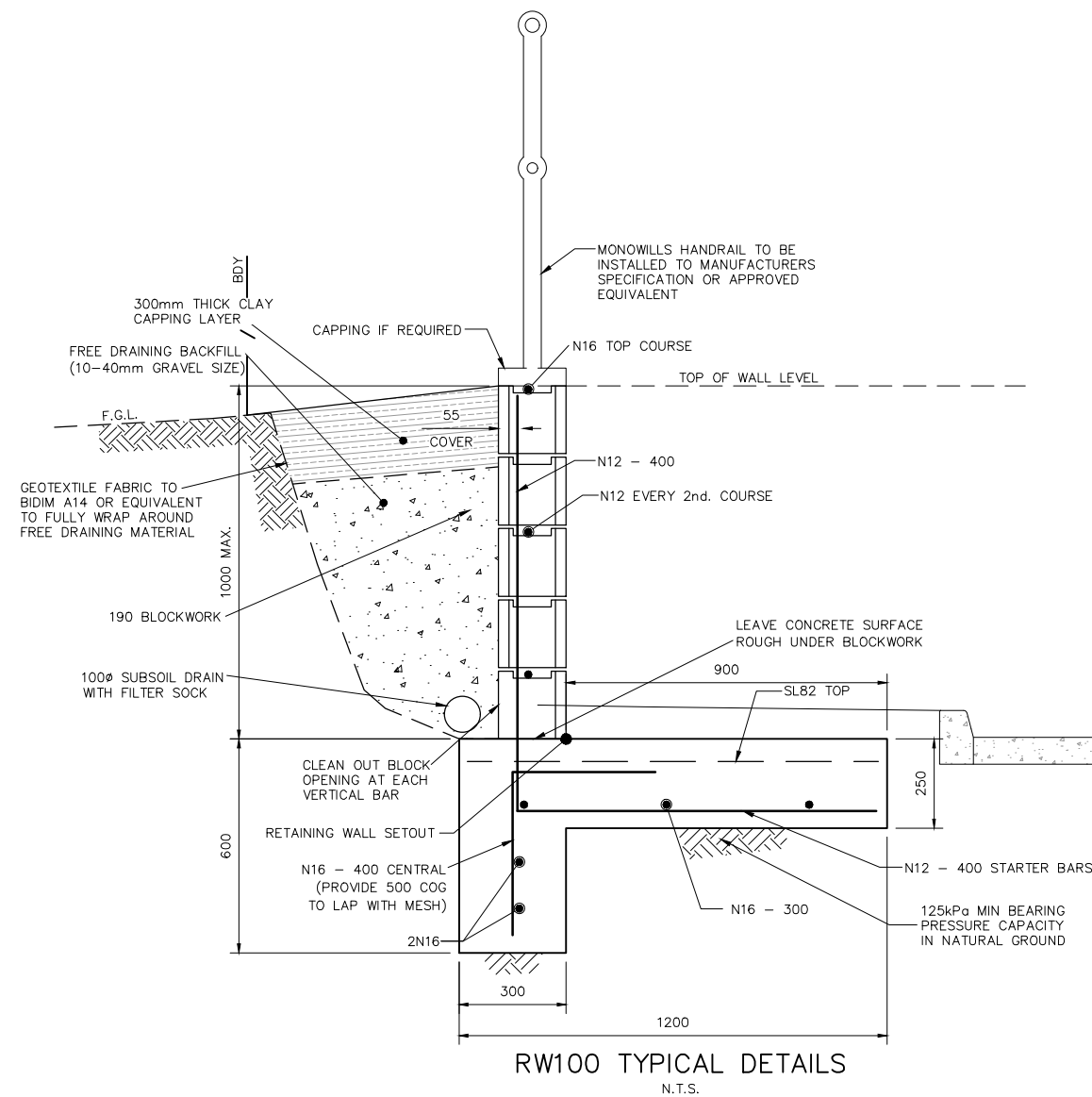
Categories: Certifier – Subdivision
Certifier – Strata
Certifier – Stormwater
Certifier – Road & Drainage
Certifier – Hydraulic (stormwater)

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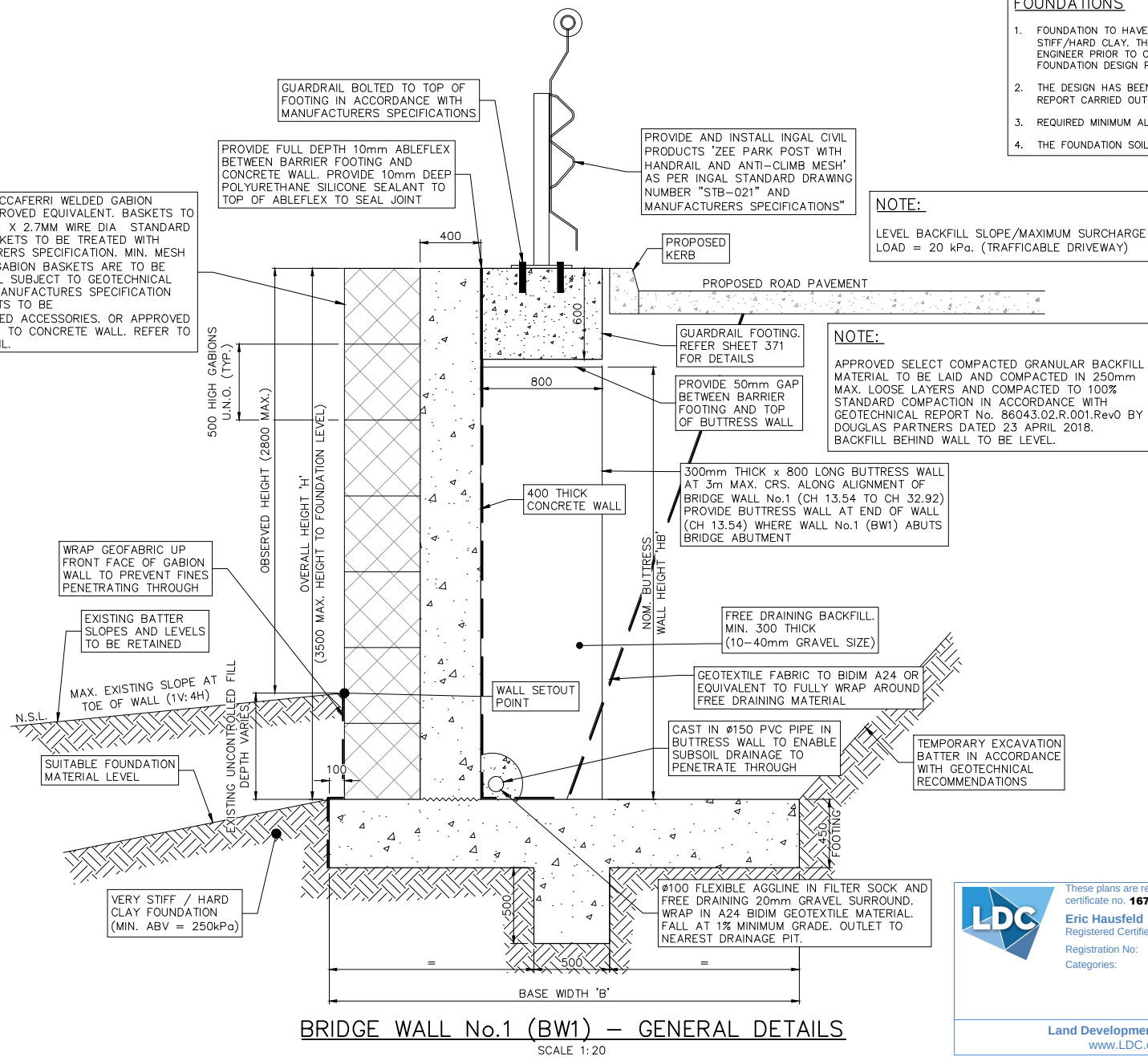
CONSTRUCTION ISSUE

REV.	DATE	AMENDMENT	DESIGN	DRAWN	CHECKED	APPROVED	SCALES		Central Coast 5 Pioneer Avenue, P.O. Box 3717, Tuggerah N.S.W. 2259 Phone: (02) 4305 4300 Fax: (02) 4305 4399 email: coast@adwjohnson.com.au www.adwjohnson.com.au ABN 62 129 445 398		CLIENT	PROPERTY DESCRIPTION LOT 100 D.P.1262209 & LOT 1 D.P.859537 EPPING ROAD & LYONPARK ROAD, MACQUARIE PARK SSDA 8903	PROJECT PROPOSED SUBDIVISION			
							PLAN TITLE RETAINING WALL LONGITUDINAL SECTION RW101									
DESIGN FILE S:\300001\DESIGN\12D\STAGE 2 CC\DESIGN FILE.project							ALL DIMENSIONS ARE IN METRES. DO NOT SCALE						SURVEYED ADW Johnson	DATUM GDA94 M.G.A. ZONE 56 A.H.D.	PROJECT No. 300001(2) -	DISCIPLINE ENG -



REV.		DATE	AMENDMENT	DESIGN	DRAWN	CHECKED	APPROVED	SCALES	 Central Coast 5 Pioneer Avenue, P.O. Box 3717, Tuggerah N.S.W. 2259 Phone: (02) 4305 4300 Fax: (02) 4305 4399 email: coast@adwjohnson.com.au www.adwjohnson.com.au ABN 62 129 445 398	 CLIENT	PROPERTY DESCRIPTION		PROJECT					
1		21.01.22	ISSUED FOR CONSTRUCTION	B.M.	J.J.	B.M.	B.M.				LOT 100 D.P.1262209 & LOT 1 D.P.859537 EPPING ROAD & LYONPARK ROAD, MACQUARIE PARK SSDA 8903		PROPOSED SUBDIVISION					
											PLAN TITLE		TYPICAL RETAINING WALL DETAILS & NOTES					
DESIGN FILE S:\300001\DESIGN\12D\STAGE 2 CC\DESIGN FILE.project									ALL DIMENSIONS ARE IN METRES. DO NOT SCALE		SURVEYED ADW Johnson		DATUM GDA94 M.G.A. ZONE 56 A.H.D.		PROJECT No. 300001(2) -	DISCIPLINE ENG -	NUMBER 571	REV. 1

NOTE: GABION CAGES TO USE MACCAFERRI WELDED GABION BASKETS BY GEOFABRICS OR APPROVED EQUIVALENT. BASKETS TO BE 8 X 10 (80MM MAX OPENING) X 2.7MM WIRE DIA. STANDARD MESH SPECIFICATION. GABION BASKETS TO BE TREATED WITH GALMAC COATING TO MANUFACTURERS SPECIFICATION. MIN. MESH TENSILE STRENGTH = 50KN/M. GABION BASKETS ARE TO BE PLACED, INFILLED WITH STONE FILL SUBJECT TO GEOTECHNICAL ADVICE AND TIED TOGETHER TO MANUFACTURERS SPECIFICATION WITH ALL ASSOCIATED COMPONENTS TO BE GEOFABRICS/MACCAFERRI APPROVED ACCESSORIES. OR APPROVED EQUIVALENT. BASKETS TO BE TIED TO CONCRETE WALL. REFER TO SMEC DRAWINGS FOR FIXING DETAIL.



BRIDGE WALL No.1 (BW1) - GENERAL DETAILS

SCALE 1:20

H. RETAINING WALL DESIGN PARAMETERS

H1: DESIGN OF THE MACCAFERRI GABION GRAVITY STRUCTURES ARE BASED UPON THE FOLLOWING PARAMETERS:

GABION WALL REQUIREMENTS

GABION WALL FACE SLOPE	=	1H : 5V
MIN. ROCK DENSITY	=	24kN/m³
MAX. POROSITY OF CONSTRUCTED GABIONS	=	30%
MIN. WET STRENGTH OF AGGREGATE IN ACCORDANCE WITH AS1141.22	=	100kN
MIN. ROCK SIZE	=	100mm
MAX. ROCK SIZE	=	250mm

RETAINED FILL

BACKFILL MATERIAL DESCRIPTION	=	GRANULAR ENGINEERED FILL
EFFECTIVE INTERNAL FRICTION ANGLE	=	30°
EFFECTIVE COHESION	=	0kPa
BACKFILL UNIT WEIGHT	=	20kN/m³

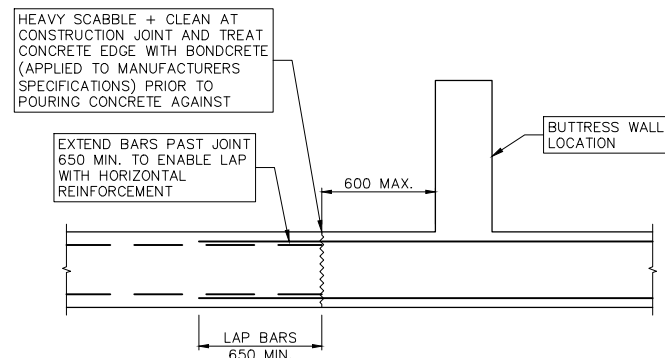
FOUNDATION MATERIAL

FOUNDATION MATERIAL DESCRIPTION	=	VERY STIFF/HARD CLAY
MIN. ALLOWABLE BEARING CAPACITY	=	250kPa
EFFECTIVE INTERNAL FRICTION ANGLE	=	28°
EFFECTIVE COHESION	=	7kPa
FOUNDATION UNIT WEIGHT	=	19kN/m³
UNDRAINED SHEAR STRENGTH	=	120kPa

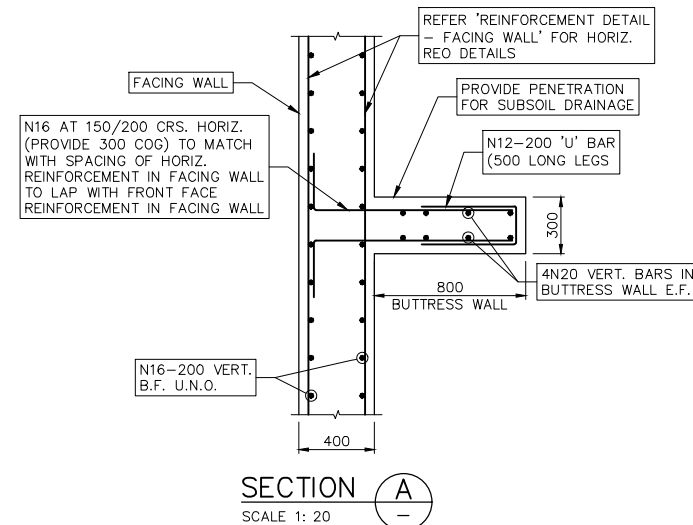
H2: LIVE LOADS APPLIED TO STRUCTURES:

- LIVE LOAD CONSTRUCTION SURCHARGE = 10kPa
- LIVE LOAD TRAFFIC SURCHARGE = 20kPa

H3: HYDROSTATIC FORCES = N/A

WALL CONSTRUCTION JOINT DETAIL
(POUR BREAK)

SCALE 1:20



SECTION A

SCALE 1:20

FOUNDATIONS

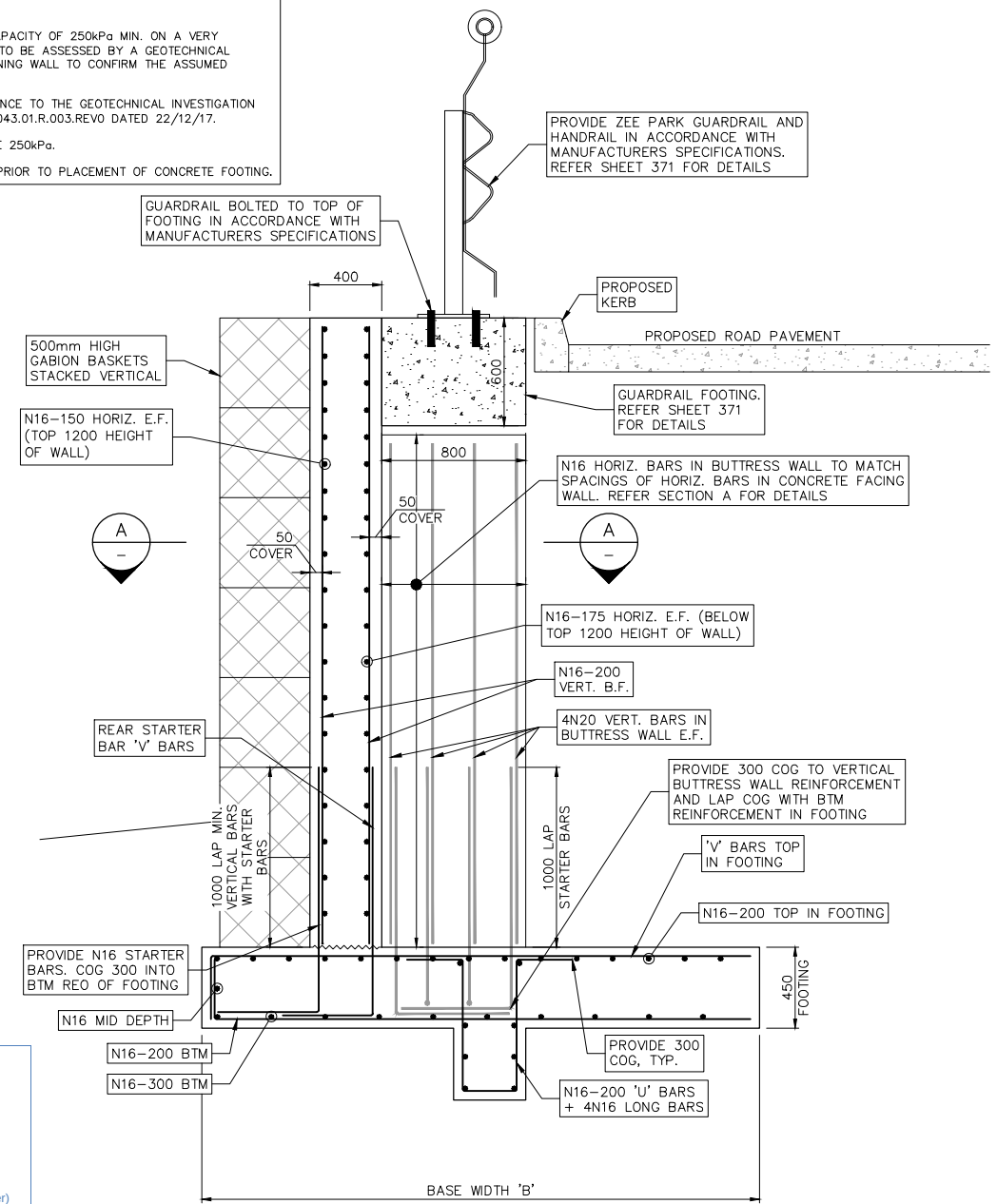
- FOUNDATION TO HAVE AN ALLOWABLE BEARING CAPACITY OF 250kPa MIN. ON A VERY STIFF/HARD CLAY. THE FOUNDATION MATERIAL IS TO BE ASSESSED BY A GEOTECHNICAL ENGINEER PRIOR TO CONSTRUCTION OF THE RETAINING WALL TO CONFIRM THE ASSUMED FOUNDATION DESIGN PARAMETERS.
- THE DESIGN HAS BEEN CARRIED OUT WITH REFERENCE TO THE GEOTECHNICAL INVESTIGATION REPORT CARRIED OUT BY DOUGLAS PARTNERS 86043.01.R.003.REVO DATED 22/12/17.
- REQUIRED MINIMUM ALLOWABLE BEARING PRESSURE 250kPa.
- THE FOUNDATION SOIL SHALL BE PROOF-ROLLED PRIOR TO PLACEMENT OF CONCRETE FOOTING.

NOTE:

LEVEL BACKFILL SLOPE/MAXIMUM SURCHARGE LOAD = 20 kPa. (TRAFFICABLE DRIVEWAY)

NOTE:

APPROVED SELECT COMPACTED GRANULAR BACKFILL MATERIAL TO BE LAID AND COMPACTED IN 250mm MAX. LOOSE LAYERS AND COMPACTED TO 100% STANDARD COMPACTION IN ACCORDANCE WITH GEOTECHNICAL REPORT No. 86043.02.R.001.Rev0 BY DOUGLAS PARTNERS DATED 23 APRIL 2018. BACKFILL BEHIND WALL TO BE LEVEL.

REINFORCEMENT DETAIL
FACING WALL/FOOTING/BUTTRESS WALL

SCALE 1:20

BRIDGE WALL No.1 (BW1) - DIMENSIONS				
OVERALL HEIGHT 'H'	BASE WIDTH	NOMINAL BUTTRESS WALL HEIGHT	'V' BAR REQUIRED	'V' BAR STARTER BAR HEIGHT
3500-2500	3100	UP TO 2900 HIGH	N20-200	1000
2500-1500	2600	UP TO 1900 HIGH	N20-200	1000
1500-1000	1800	UP TO 900 HIGH	N20-200	1000
1000	1800	NOT REQUIRED	N20-200	1000

NOTE:

A GEOTECHNICAL ENGINEER IS TO ASSESS THE SITE UPON INITIAL CLEARING AND EXCAVATION FOR CONSTRUCTION OF THE RETAINING WALL. FOOTING TO BE CONSTRUCTED ON THE SITE CONDITIONS ARE CONSISTENT WITH THE GEOTECHNICAL PARAMETERS PROVIDED ON THE DESIGN DRAWINGS. THE GEOTECHNICAL ENGINEER MAY NEED TO PROVIDE ADDITIONAL GEOTECHNICAL POTHOLING/TESTING TO VERIFY THE GEOLOGICAL LAYERS BEYOND THE OBSERVED EXCAVATION LAYER, AS REQUIRED.

NOTE:

A GLOBAL STABILITY ASSESSMENT FOR THE BRIDGE RETAINING WALL NO. 1 (BW1) HAS BEEN DETAILED IN REPORT NO. 86043.06.R.007.REVO DATED 2/8/21 BY DOUGLAS PARTNERS. REFERENCE IS TO BE MADE TO THIS REPORT FOR GEOTECHNICAL PARAMETERS USED IN THE ASSESSMENT AND PROPOSED RECOMMENDATION FOR CONSTRUCTION BASED ON THE OUTCOME OF THE SLOPE STABILITY ASSESSMENT.



DIAL 1100
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CONSTRUCTION ISSUE

REV.	DATE	AMENDMENT	DESIGN	DRAWN	CHECKED	APPROVED	SCALES
1	21.01.22	ISSUED FOR CONSTRUCTION	B.M.	J.J.	B.M.	B.M.	A1 1:20



Central Coast
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www.adwjohnson.com.au
ABN 62 129 445 398

CLIENT



PROPERTY DESCRIPTION

LOT 100 D.P.1262209 & LOT 1 D.P.859537
EPPING ROAD & LYONPARK ROAD,
MACQUARIE PARK
SSDA 8903

PROJECT

PROPOSED SUBDIVISION

PLAN TITLE

TYPICAL GABION WALL
DETAILS & NOTES

SURVEYED

ADW Johnson

DATUM

GDA94 M.G.A. ZONE 56

A.H.D.

PROJECT No.

300001(2) -

DISCIPLINE

ENG

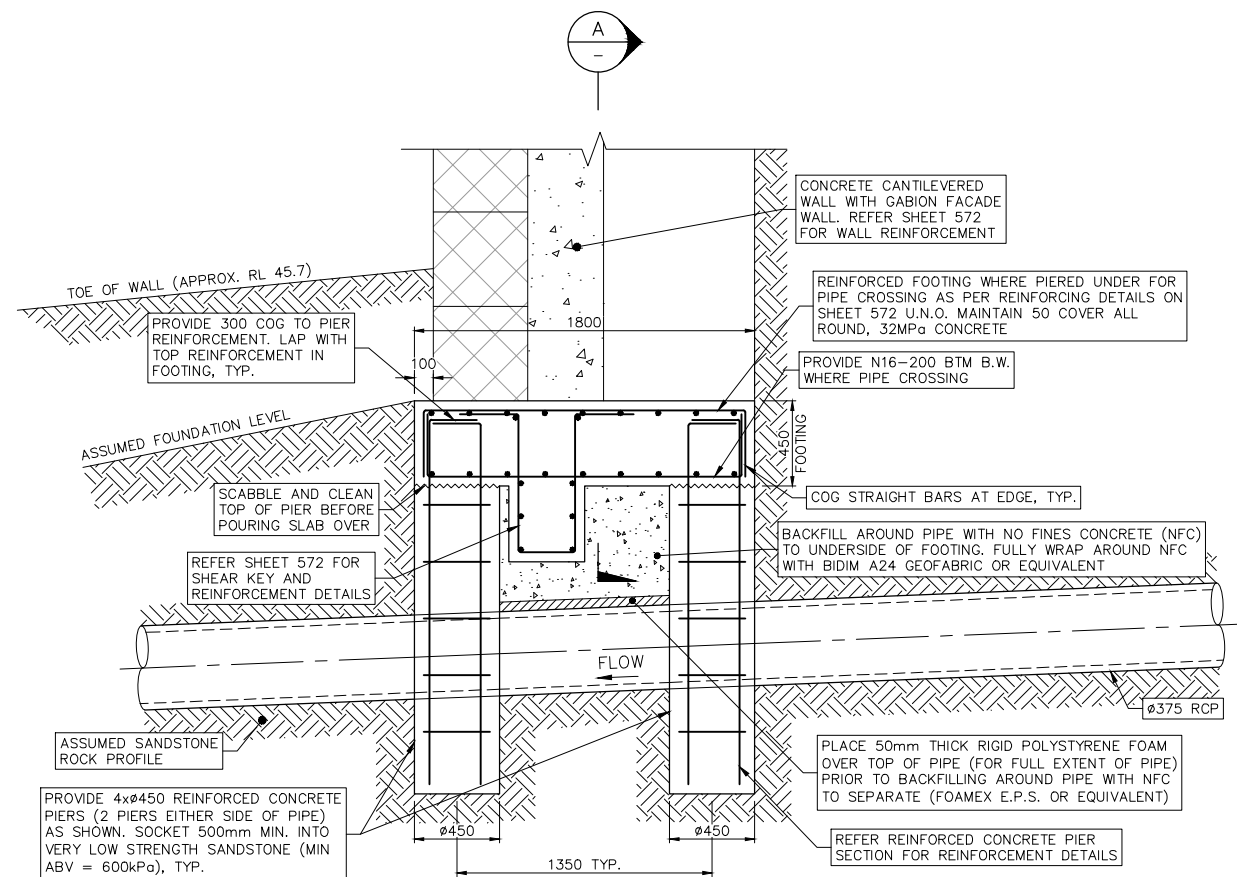
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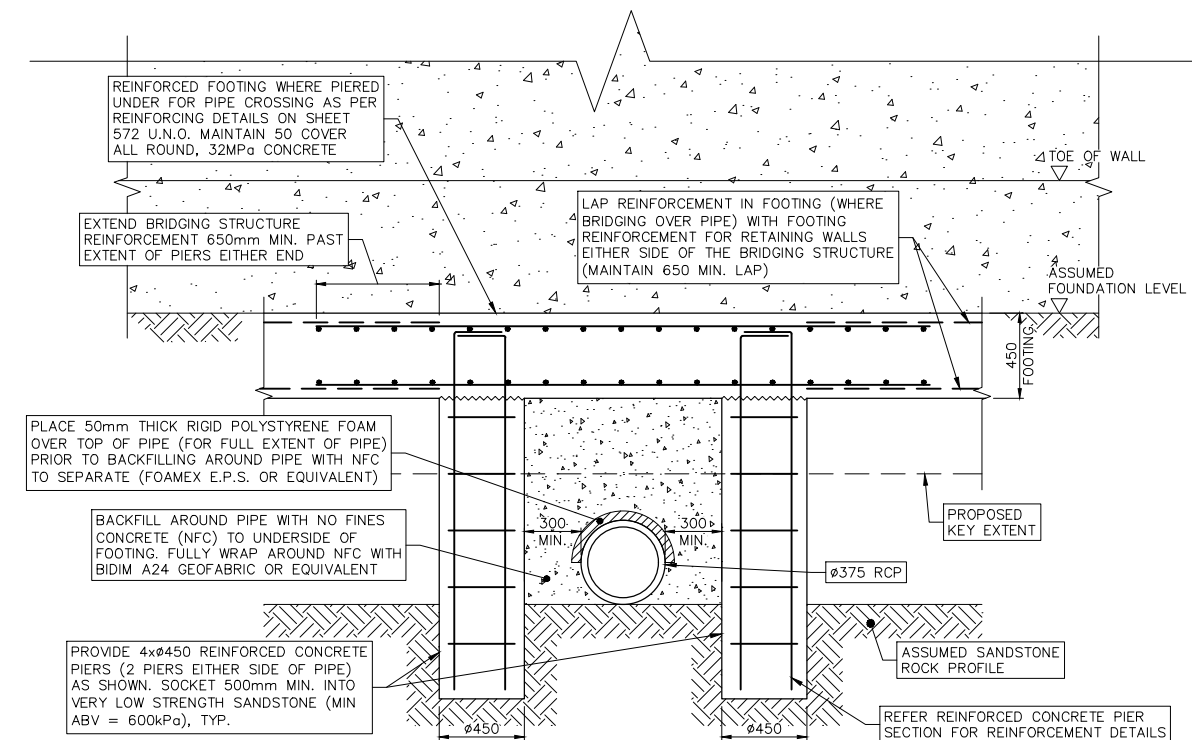
REV.

1

REINFORCED CONCRETE PIER SECTION
(CONCRETE GRADE = 32MPa)
SCALE 1:10



SCALE 1:20



SECTION A
SCALE 1: 20



These plans are referred to in certificate no. **16746** approved by:

Eric Hausfeld
Registered Certifier

Registration No: BDC 2416

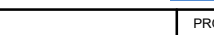
Categories:

- Certifier – Subdivision
- Certifier – Strata
- Certifier – Stormwater
- Certifier – Road & Drainage
- Certifier – Hydraulic (stormwater)

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CONSTRUCTION ISSUE

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1	21.01.22	ISSUED FOR CONSTRUCTION	B.M.	J.J.	B.M.	B.M.	 				LOT 100 D.P.1262209 & LOT 1 D.P.859537 EPPING ROAD & LYONPARK ROAD, MACQUARIE PARK SSDA 8903		PROPOSED SUBDIVISION									
DESIGN FILE S:\300001\DESIGN\12\STAGE 2 CC\DESIGN FILE.project							ALL DIMENSIONS ARE IN METRES. DO NOT SCALE				PLAN TITLE		TYPICAL GABION WALL BRIDGING STRUCTURE DETAILS									
											SURVEYED ADW Johnson		DATUM GDA94 M.G.A. ZONE 56 A.H.D.		PROJECT No. 300001(2) -		DISCIPLINE ENG -		NUMBER 573		REV. 1	

GABION WALL – GENERAL NOTES:

A: GENERAL

- A1: ALL DIMENSIONS SHOWN ARE IN MILLIMETRES U.N.O
ALL REDUCED LEVELS ARE IN METRES.
- A2: THE OWNER OR CONTRACTOR IS RESPONSIBLE FOR REVIEWING AND
VERIFYING THAT THE ACTUAL SITE CONDITIONS ARE AS DESCRIBED PRIOR TO
AND DURING CONSTRUCTION.
- A3: ALL PLAN DIMENSIONS MUST BE VERIFIED BY THE CONTRACTOR. THE PROJECT
ENGINEER MUST BE NOTIFIED OF ANY DISCREPANCIES BEFORE THE CONTRACTOR
BEGINS WITH WORK.
- A4: STRUCTURES SUCH AS BUILDING FOOTINGS, SWIMMING POOLS,
RETAINING WALLS, STORAGE OR SOLID PANEL FENCING MUST
BE KEPT CLEAR SUCH THAT THE LOAD IS NOT PLACED BETWEEN
A LINE PROJECTED BEHIND THE WALL FROM THE FOUNDING LEVEL
AT 1V : 1.5H AND THE WALL.
- A5: PRECAUTIONS MUST BE TAKEN WHERE OTHER BUILDING WORK,
SERVICE TRENCHES, GARDEN BEDS ETC. MAY BE EXCAVATED IN FRONT
OF THE WALL.
- A6: WHERE A SAFETY FENCE IS REQUIRED BY COUNCIL IT SHALL BE SET
BACK A MINIMUM OF 500 mm FROM THE TOP OF THE WALL.
- A7: MACCAFERRI GABION WALLS MAY BE DESIGNED AS EITHER MASS GRAVITY
OR SEMI-GRAVITY STRUCTURES. DETAILED DESIGN ADVICE MAY BE SOUGHT
FROM MACCAFERRI PTY LTD.
- A8: A NON-WOVEN GEOTEXTILE IS TO BE USED IN BACKFILL BETWEEN THE SOIL
AND THE RETAINING WALL.
- A9: GABION BASKETS MUST BE GALVANIZED AND FULLY LACED TO BOTH UPPER
AND LOWER NEIGHBOURING BASKETS.
- A10: GABION MUST BE DIVIDED INTO CELL OF LENGTH OF NOT GREATER THAN 2m.
- A11: THE FRONT FACE AND OTHER EXPOSED FACES OF THE GABION WALL SHALL BE
HAND PACKED WITH ROCKS TO PROVIDE A SMOOTH CONSISTENT FINISH.
- A12: BACKFILL IS TO BE GRANULAR, FREE DRAINING AND COMPACTED TO THE
REQUIREMENTS MADE IN DOUGLAS PARTNERS GEOTECHNICAL REPORT
2018-04-26.86043.R.001.REVO DATED 23/4/18.
- A13: ALL SURFACE RUN-OFF SHOULD BE DIRECTED AWAY FROM THE BACK OF THE
WALL SO AS TO PREVENT INFILTRATION OF SUCH SURFACE RUN-OFF INTO THE
GRANULAR BACKFILL.
- A14: PROVIDE AN UPSTREAM FLUSHING POINT TO THE SUB-SOIL DRAINAGE LINE
LOCATED BEHIND THE RETAINING WALL.
- A15: WHERE THE WALL IS FOUNDED ON BEDROCK THE PREPARATION OF THE
FOUNDATION SHOULD INCLUDED THE REMOVAL OF ALL LOOSE ROCK AND SOIL.
ANY IRREGULARITIES IN THE BEDROCK SHOULD BE FILLED WITH MASS
CONCRETE (f'c = 25MPa).

B: GABION ROCK INFILL

- B1: SUPPLY GABION ROCK OF IGNEOUS ORIGIN WHICH IS DENSE, CLEAN, HARD AND FREE
FROM DEFECTS, CRACKS, SEAMS, CLEAVAGE PLANES, WEATHERING, DEGRADATION
AND PERVASIVE CHEMICAL ALTERATION THAT WILL AFFECT ROCK DURABILITY.
ROCK MAY BE EITHER QUARRIED ROCK OR SELECTED RIVER COBBLE.
- B2: SUPPLY ROCKFILL MEETING THE QUALITY CRITERIA AS SPECIFIED BELOW:
- B2.1 DIMENSIONS
SUPPLY ROCK GENERALLY UNIFORM IN SHAPE, FREE FROM ELONGATED
FLAT OR FLAKY PIECES. THE ROCKFILL SHALL HAVE NO MORE THAN
10% MIS-SHAPEN PARTICLES. THE DEFINITION OF MIS-SHAPEN PARTICLES
SHALL BE AS DETERMINED BY TEST METHOD AS1141.14 (CALIPER RATIO 3:1).
- B2.2 DURABILITY
THE ROCK SUPPLIED SHALL BE TESTED IN ACCORDANCE WITH AS1141.22 FOR
WET/DRY STRENGTH VARIATION. THE ROCK TESTED SHALL BE REPRESENTATIVE
OF THE ROCK TO BE SUPPLIED AS SHALL HAVE A MINIMUM DRY STRENGTH
OF 200kN AND A MINIMUM WET STRENGTH OF 100kN. THE MAXIMUM WET/
DRY STRENGTH VARIATION SHALL BE NO MORE THAN 50%.
- B2.3 GRADING
SUPPLY ROCKFILL WHICH IS UNIFORMLY GRADED BETWEEN A MAXIMUM OF
GENERALLY 200mm (BUT NO MORE THAN 250mm) AND A MINIMUM OF NOT
GREATER THAN 10% FINER THAN 75mm.
- B2.4 FREQUENCY OF TESTING
THE SUPERINTENDANT SHALL WITH DUE REGARD TO THE CONTRACT
NOMINATE THE FREQUENCY AND COMPLIANCE REQUIREMENTS FOR THE ROCKFILL.
ALL ROCKFILL NOT MEETING THE REQUIREMENTS OF THE SPECIFICATION
WILL BE REJECTED. ALL REJECTED ROCKFILL SHALL BE DISPOSED OF IN AN
APPROVED MANNER AT THE EXPENSE OF AND BY THE CONTRACTOR.

C: MACCAFERRI GABION CONSTRUCTION

- C1: REFER TO MACCAFERRI ASSEMBLY & ERECTION LEAFLETS AND INSTALLATION SEQUENCE
DRAWING.

D: MACCAFERRI GABION UNITS

- D1: MACCAFERRI GABION UNITS ARE TO BE STORED, TRANSPORTED, HANDLED AND
PLACED TO THE MANUFACTURERS SPECIFICATION. THEY SHALL NOT BE
DAMAGED OR DISPLACED DURING PLACEMENT AND COMPACTION OF THE
BACKFILL.
- D2: THE GABION UNITS SHALL BE MANUFACTURED IN ACCORDANCE WITH THE
MACCAFERRI SPECIFICATION (AVAILABLE UPON REQUEST). GABION UNITS MAY BE
SUPPLIED AS A HEAVILY GALVANISED DOUBLE TWISTED WOVEN HEXAGONAL WIRE
MESH COMPLYING WITH INTERNATIONAL STANDARDS BS1052-1980 & BS443-1982.
FOR SPECIFIC APPLICATIONS THE WIRE MAY BE ADDITIONALLY COATED WITH PVC.
- D3: IMPROVED LONGETIVITY AND DURABILITY CAN BE ACHIEVED USING IMPROVED TECHNOLOGY
GALMAC GABION UNITS CONFORMING TO A.S.T.M 856 & EN/EURONORM 10244/2.
- D4: THE SPECIFIER SHALL NOMINATE THE COATING REQUIRED DEPENDANT UPON THE
GABION EXPOSURE CONDITIONS.

E: GEOTEXTILE / DRAINAGE

- E1: A NON-WOVEN MACCAFERRI GEOTEXTILE SHALL BE INCORPORATED AT THE REAR
FACE OF THE MACCAFERRI GABION UNITS.
- E2: IF THE BACKFILL IS NOT FREE-DRAINING, DRAINAGE PROVISIONS SHALL BE
SPECIFIED BY THE PROJECT ENGINEER.
- E3: ALL SUBSURFACE DRAINS TO HAVE OUTLETS AT LOW POINTS AND A
POSITIVE DRAINAGE PATH. PROVIDE SUBSOIL DRAINAGE PIPES WITH
FLUSHING POINTS AT HIGH POINTS AND INTERMEDIATE RODDING POINTS.
- E4: ALL SUBSURFACE DRAINAGE SHALL BE PROPERLY DISCHARGED TO NEARBY
PIT/DRAINAGE SYSTEM.

F. DESIGN ASSUMPTIONS

- F1: THE DESIGN PRESENTED HEREIN IS BASED ON SOIL PARAMETERS, FOUNDATION
CONDITIONS, GROUNDWATER CONDITIONS, STATED IN THE RELEVANT
GEOTECH REPORT. SHOULD ACTUAL CONDITIONS VARY FORM THOSE ASSUMED,
THE PROJECT ENGINEER SHOULD BE NOTIFIED PRIOR TO CONSTRUCTION TO
DETERMINE IF REDESIGN OF THE PROPOSED STRUCTURE IS REQUIRED.

GENERAL INSTALLATION NOTES

1. THE GABION WALL IS TO BE PREPARED AND INSTALLED IN ACCORDANCE WITH THE
MANUFACTURER'S SPECIFICATION. REFER TO THE MANUFACTURE'S INSTALLATION
GUIDELINES FOR FURTHER DETAILS.
2. ALL UTILITIES WITHIN THE VICINITY OF THE WALL MUST BE IDENTIFIED/RELOCATED PRIOR
TO EXCAVATION.
3. EXCAVATE DOWN TO THE GABION WALL FOUNDATION LEVEL. ANY TEMPORARY
EXCAVATION STABILITY MEASURES ARE TO BE ASSESSED BY A QUALIFIED
GEOTECHNICAL ENGINEER UPON EXCAVATION. PREPARE FOUNDATION IN ACCORDANCE
WITH THE REQUIREMENTS ON THE DESIGN DRAWINGS. FOUNDATION IS TO BE LEVEL
PRIOR TO PLACING THE FIRST LAYER OF THE GABION WALL. THE FOUNDATION IS TO BE
ASSESSED BY A QUALIFIED GEOTECHNICAL ENGINEER TO VERIFY THE PARAMETERS ARE
IN ACCORDANCE WITH THE REQUIREMENTS OF THESE DRAWINGS.
4. INSTALL THE FIRST LAYER OF GABION CAGE ON THE FOUNDATION.
5. INFILL THE GABION CAGE WITH ROCKS TO THE SPECIFICATIONS AS INDICATED ON THE
GENERAL NOTES AND MACCAFERRI INSTALLATION GUIDELINES. MECHANICALLY
INTERLOCKING ROCKS ARE PREFERRED. THE ROCKS SHALL HAVE A DEGREE IN
ANGULARITY AND A RANGE IN SIZE. USING SMALL ROCKS, 100 TO 150MM IN SIZE,
ALLOWS THE CAGE TO BE ECONOMICALLY FILLED. IT WILL ALSO PROVIDE BETTER LOAD
DISTRIBUTION AND ADAPTABILITY OF THE STRUCTURE TO DEFORMATION.
6. INSTALL THE NON-WOVEN GEOTEXTILE AND SUBSOIL DRAINAGE LAYER (IF APPLICABLE).
7. PLACE THE APPROVED SELECT GRANULAR FILL IN 250mm MAX LOOSE LAYERS BEHIND
THE RETAINING WALL AND COMPACT TO THE COMPACTION REQUIREMENTS AS NOTED ON
THIS SHEET PROGRESSIVELY TO A MAXIMUM COMPACTED HEIGHT OF 1m. NOTE:
MAXIMUM COMPACTED HEIGHTS TO BE 1m PRIOR TO INSTALLATION OF THE SUCCESSIVE
1m HIGH GABION WALL UNITS.
8. EXISTING UNCONTROLLED FILL IN FRONT OF GABION WALL THAT WAS REMOVED TO
ENABLE CONSTRUCTION OF THE WALL IS TO BE RE-PLACED IN 250mm LOOSE LAYERS
AND HAND COMPACTED TO THE EXISTING NSL AS INDICATED ON THE RETAINING WALL
LONG-SECTION ON SHEET 562. PROVIDE GEOTEXTILE BETWEEN THE GABION WALL UNITS
AND THE FILL MATERIAL.
9. REPEAT FOR THE NEXT SUCCESSIVE 1m MAX GABION WALL HEIGHTS UNTIL COMPLETION
OF WALL HEIGHT.



These plans are referred to in
certificate no. **16746** approved by:

Eric Hausfeld
Registered Certifier

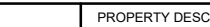
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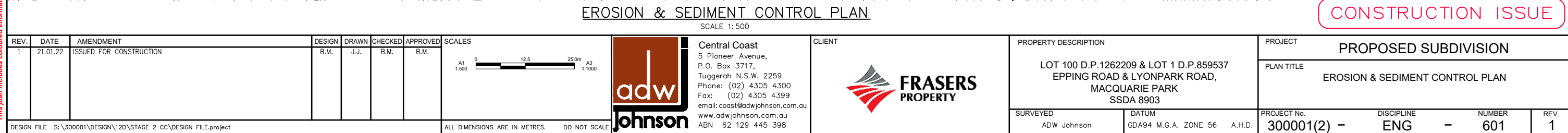
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Certifier – Strata
Certifier – Stormwater
Certifier – Road & Drainage
Certifier – Hydraulic (stormwater)

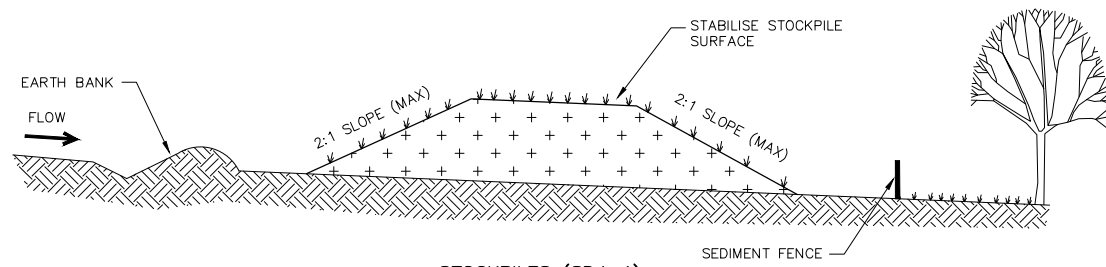
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CONSTRUCTION ISSUE

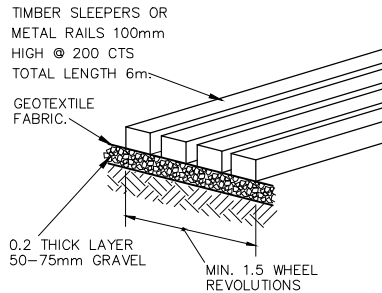
REV.	DATE	AMENDMENT	DESIGN	DRAWN	CHECKED	APPROVED	SCALES		Central Coast 5 Pioneer Avenue, P.O. Box 3717, Tuggerah N.S.W. 2259 Phone: (02) 4305 4300 Fax: (02) 4305 4399 email: coast@adwjohnson.com.au www.adwjohnson.com.au ABN 62 129 445 398	CLIENT 	PROPERTY DESCRIPTION LOT 100 D.P.1262209 & LOT 1 D.P.859537 EPPING ROAD & LYONPARK ROAD, MACQUARIE PARK SSDA 8903	PROJECT PROPOSED SUBDIVISION				
1	21.01.22	ISSUED FOR CONSTRUCTION	B.M.	J.J.	B.M.	B.M.	A1 1:10 0 0.25 0.5m A3 1:20 A1 1:20 0 0.5 1.0m A3 1:40					PLAN TITLE TYPICAL GABION WALL NOTES				
DESIGN FILE S:\300001\DESIGN\12\STAGE 2 CC\DESIGN FILE.project							ALL DIMENSIONS ARE IN METRES. DO NOT SCALE					SURVEYED ADW Johnson		DATUM GDA94 M.G.A. ZONE 56 A.H.D.		PROJECT No. 300001(2) -



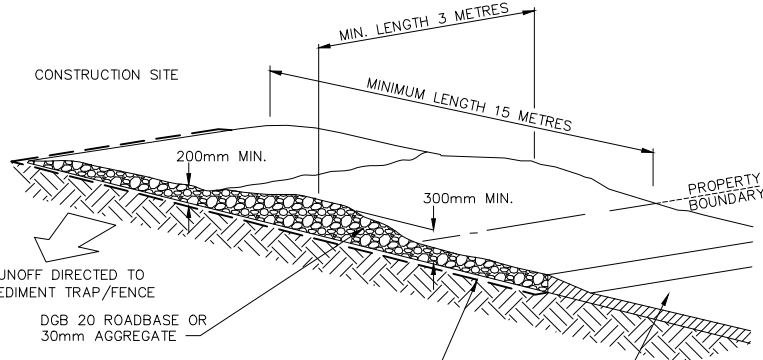


STOCKPILES (SD4-1)
N.T.S.

- 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 METRES 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 UPSLOP SIDE TO DIVERT WATER AROUND STOCKPILES AND SEDIMENT FENCES (STANDARD DRAWING 6-8) 1 TO 2 METRES DOWNSLOPE.

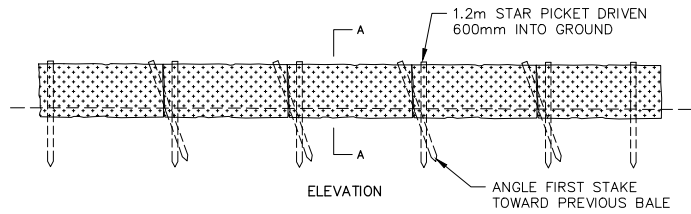


SHAKER RAMP



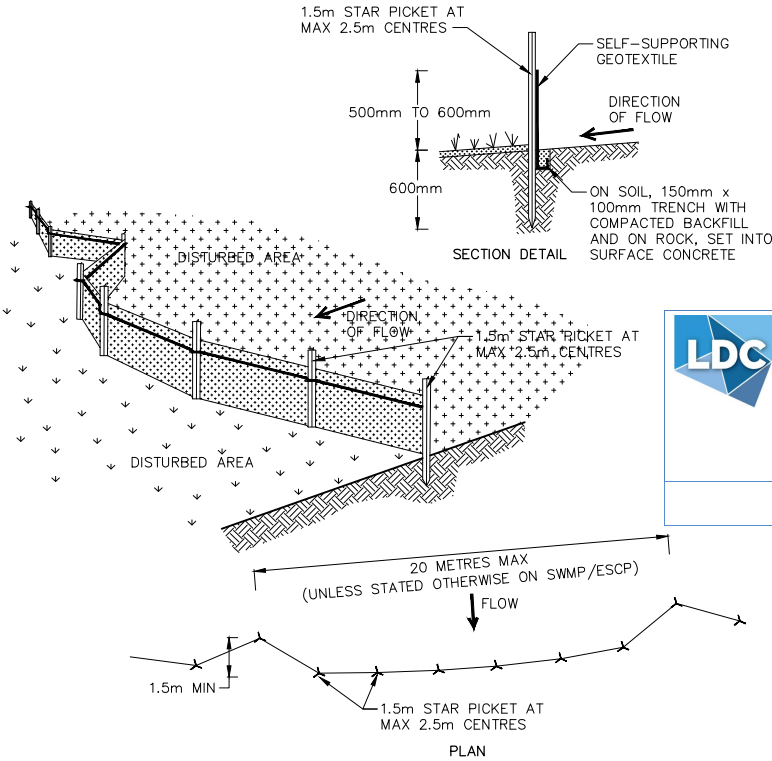
STABILISED SITE ACCESS (SD6-14)
N.T.S.

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



STRAW BALE FILTER (SD6-7)
N.T.S.

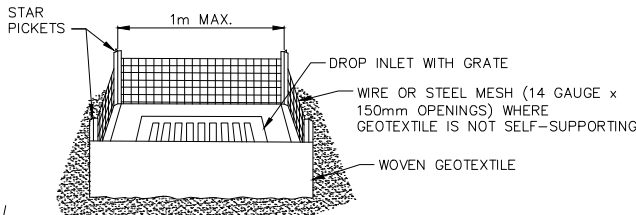
- CONSTRUCTION NOTES:
1. CONSTRUCT THE STRAW BALE FILTER AS CLOSE AS POSSIBLE TO BEING PARALLEL TO THE CONTOURS OF THE SITE.
 2. PLACE BALES LENGTHWISE IN A ROW WITH ENDS TIGHTLY ABUTTING. USE STRAW TO FILL ANY GAPS BETWEEN BALES. STRAWS ARE TO BE PLACED PARALLEL TO GROUND.
 3. ENSURE THAT THE MAXIMUM HEIGHT OF THE FILTER IS ONE BALE.
 4. EMBED EACH BALE IN THE GROUND 75mm TO 100mm AND ANCHOR WITH TWO 1.2m STAR PICKETS OR STAKES. ANGLE THE FIRST STAR PICKET OR STAKE IN EACH BALE TOWARDS THE PREVIOUSLY LAID BALE. DRIVE THEM 600mm IN THE GROUND AND, IF POSSIBLE, FLUSH WITH THE TOP OF THE BALES. WHERE STAR PICKETS ARE USED AND THEY PROTRUDE ABOVE THE BALES, ENSURE THEY ARE FITTED WITH SAFETY CAPS.
 5. WHERE A STRAW BALE FILTER IS CONSTRUCTED DOWNSLOPE FROM A DISTURBED BATTER, ENSURE THE BALES ARE PLACES 1 TO 2 METRES DOWNSLOPE FROM THE TOE.
 6. ESTABLISH A MAINTENANCE PROGRAM THAT ENSURES THE INTEGRITY OF THE BALES IS RETAINED - THEY COULD REQUIRE REPLACEMENT EACH TWO TO FOUR MONTHS.



SEDIMENT FENCE (SD6-8)
N.T.S.

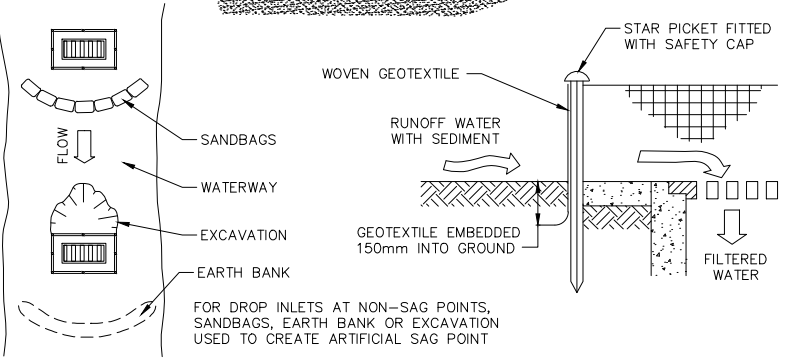
- CONSTRUCTION NOTES:
1. CONSTRUCT SEDIMENT FENCES AS CLOSE AS POSSIBLE TO BEING PARALLEL TO THE CONTOURS OF THE SITE, BUT WITH SMALL RETURNS AS SHOWN IN THE DRAWING TO LIMIT THE CATCHMENT AREA OF ANY ONE SECTION. THE CATCHMENT AREA SHOULD BE SMALL ENOUGH TO LIMIT WATER FLOW IF CONCENTRATED AT ONE POINT TO 50 LITRES PER SECOND IN THE DESIGN STORM EVENT, USUALLY THE 10-YEAR EVENT.
 2. CUT A 150mm DEEP TRENCH ALONG THE UPSLOPE LINE OF THE FENCE FOR THE BOTTOM OF THE FABRIC TO BE ENTRENCHED.
 3. DRIVE 1.5m LONG STAR PICKETS INTO GROUND AT 2.5 METRE INTERVALS (MAX) AT DOWNSLOPE EDGE OF THE TRENCH. ENSURE ANY STAR PICKETS ARE FITTED WITH SAFETY CAPS.
 4. FIX SELF-SUPPORTING GEOTEXTILE TO THE UPSLOPE SIDE OF THE POSTS ENSURING IT GOES TO THE BASE OF THE TRENCH. FIX THE GEOTEXTILE WITH WIRE TIES OR AS RECOMMENDED BY THE MANUFACTURER. ONLY USE GEOTEXTILE SPECIFICALLY PRODUCED FOR SEDIMENT FENCING. THE USE OF SHADE CLOTH FOR THIS PURPOSE IS NOT SATISFACTORY.
 5. JOIN SECTIONS OF FABRIC AT A SUPPORT POST WITH A 150mm OVERLAP.
 6. BACKFILL THE TRENCH OVER THE BASE OF THE FABRIC AND COMPACT IT THOROUGHLY OVER THE GEOTEXTILE.

LDC
These plans are referred to in certificate no. **16746** approved by:
Eric Hausfeld
Registered Certifier
Registration No: BDC 2416
Categories: Certifier - Subdivision
Certifier - Strata
Certifier - Stormwater
Certifier - Road & Drainage
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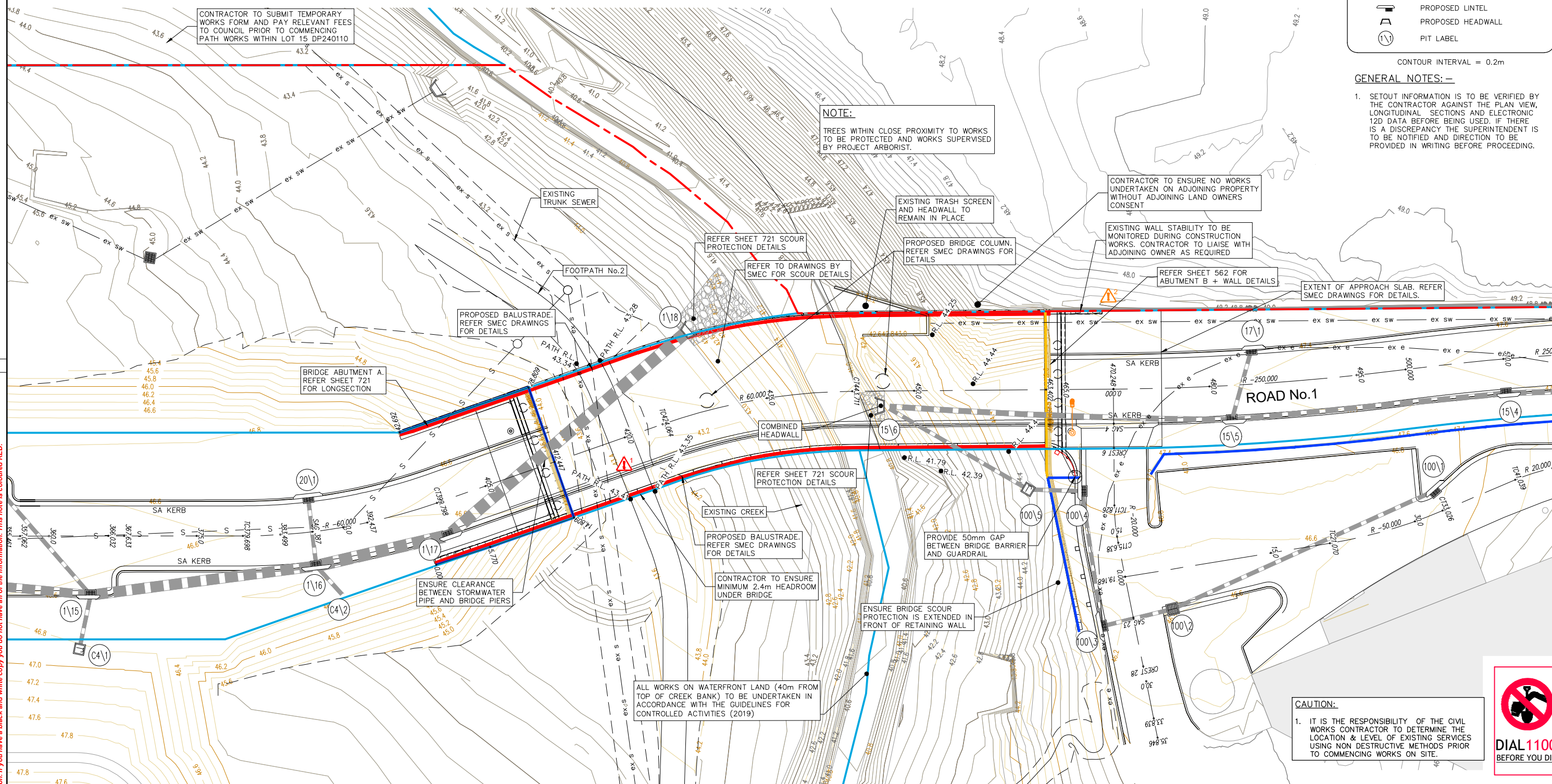
GEOTEXTILE INLET FILTER (SD6-12)
N.T.S.

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



CONSTRUCTION ISSUE

REV.	DATE	AMENDMENT	DESIGN	DRAWN	CHECKED	APPROVED	SCALES	CLIENT	PROPERTY DESCRIPTION	PROJECT
1	21.01.22	ISSUED FOR CONSTRUCTION	B.M.	J.J.	B.M.	B.M.	NOT TO SCALE	Central Coast 5 Pioneer Avenue, P.O. Box 3717, Tuggerah N.S.W. 2259 Phone: (02) 4305 4300 Fax: (02) 4305 4399 email: coast@adwjohnson.com.au www.adwjohnson.com.au ABN 62 129 445 398	LOT 100 D.P.1262209 & LOT 1 D.P.859537 EPPING ROAD & LYONPARK ROAD, MACQUARIE PARK SSDA 8903	PROPOSED SUBDIVISION
DESIGN FILE S:\300001\DESIGN\12D\STAGE 2 CC\DESIGN FILE.project			ALL DIMENSIONS ARE IN METRES. DO NOT SCALE			adwjohnson		FRASERS PROPERTY	PLAN TITLE EROSION & SEDIMENT CONTROL DETAILS & NOTES	
Plotted By: Ben Myles Plot Date: 21/01/22 2:35:09PM Cad File: S:\300001\DRAWINGS\ENGINEERING\CIVIL\STAGE 2 CC ENG\300001(2)-ENG-611.DWG									SURVEYED ADW Johnson	DATUM GDA94 M.G.A. ZONE 56 A.H.D.
									PROJECT No. 300001(2) -	DISCIPLINE ENG -
									NUMBER 611	REV. 1



BRIDGE DETAIL PLAN

SCALE 1:200

REV.	DATE	AMENDMENT	DESIGN	DRAWN	CHECKED	APPROVED	SCALES
1	21.01.22	ISSUED FOR CONSTRUCTION	B.M.	J.J.	B.M.	B.M.	A1 1:200 A3 1:400

ALL DIMENSIONS ARE IN METRES. DO NOT SCALE



Central Coast
5 Pioneer Avenue,
P.O. Box 3717,
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Phone: (02) 4305 4300
Fax: (02) 4305 4399
email: coast@adwjohnson.com.au
www.adwjohnson.com.au
ABN 62 129 445 398

CLIENT



PROPERTY DESCRIPTION

LOT 100 D.P.1262209 & LOT 1 D.P.859537
EPPING ROAD & LYONPARK ROAD,
MACQUARIE PARK
SSDA 8903

SURVEYED

ADW Johnson

DATUM

GDA94 M.G.A. ZONE 56 A.H.D.

PROJECT

PROPOSED SUBDIVISION

PLAN TITLE

BRIDGE DETAIL PLAN

PROJECT No.

300001(2) -

DISCIPLINE

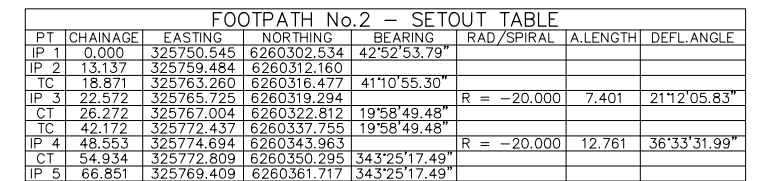
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NUMBER

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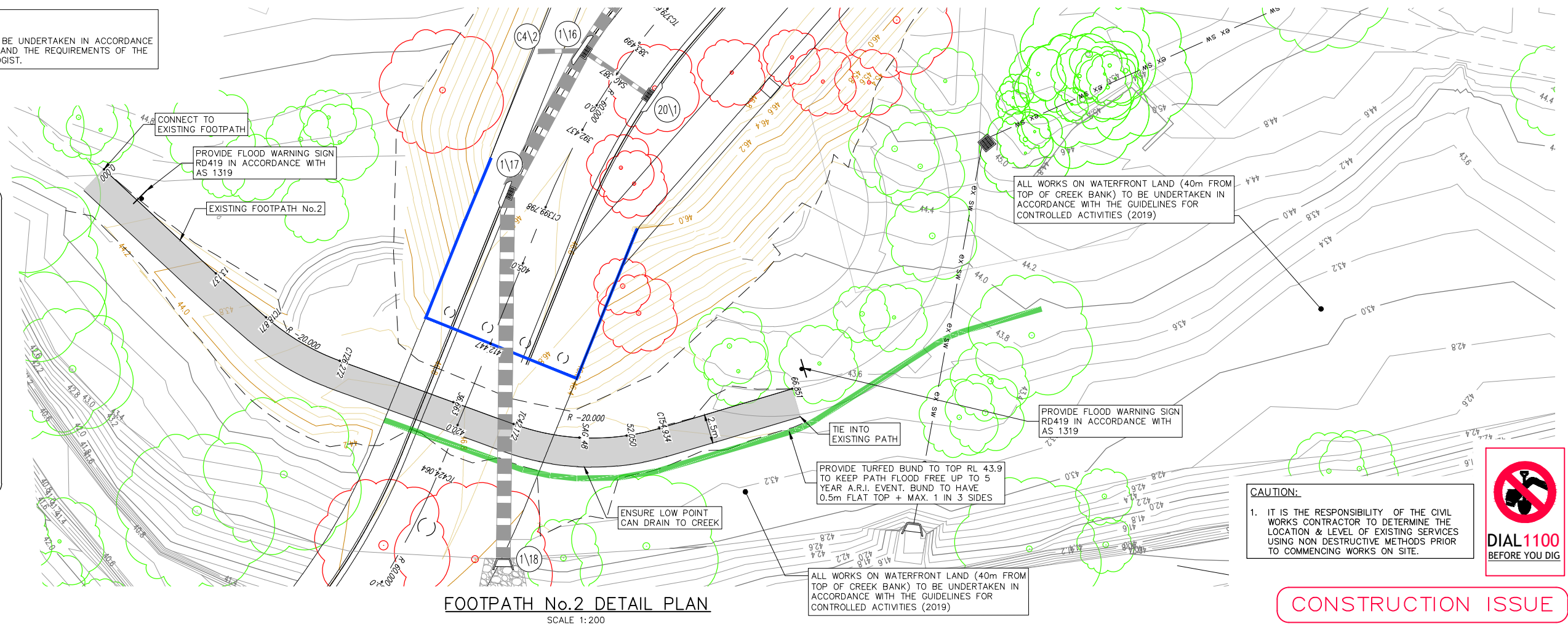
HORIZONTAL SCALE 1:200
VERTICAL SCALE 1:40

MGA

- CONTOUR INTERVAL = 0.2m

GENERAL NOTES: -

1. SETOUT INFORMATION IS TO BE VERIFIED BY THE CONTRACTOR AGAINST THE PLAN VIEW, LONGITUDINAL SECTIONS AND ELECTRONIC 12D DATA BEFORE BEING USED. IF THERE IS A DISCREPANCY THE SUPERINTENDENT IS TO BE NOTIFIED AND DIRECTION TO BE PROVIDED IN WRITING BEFORE PROCEEDING.



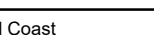
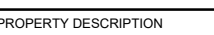
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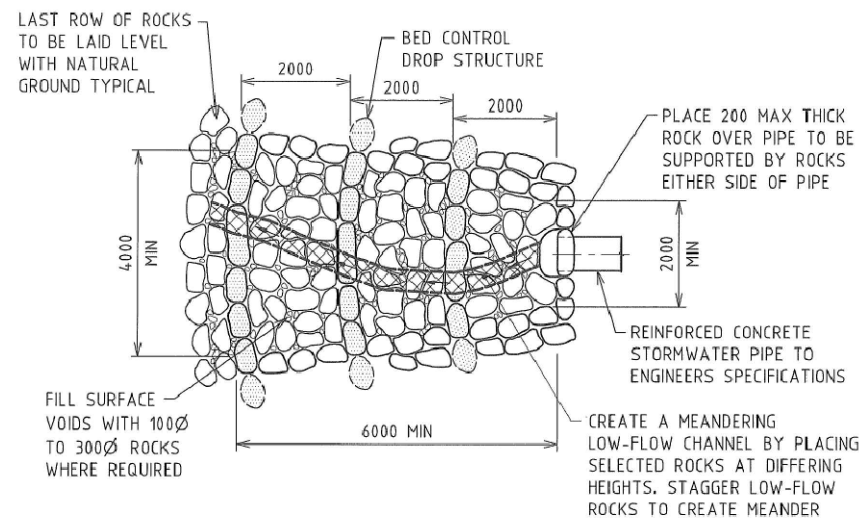
1. IT IS THE RESPONSIBILITY OF THE CIVIL WORKS CONTRACTOR TO DETERMINE THE LOCATION & LEVEL OF EXISTING SERVICES USING NON DESTRUCTIVE METHODS PRIOR TO COMMENCING WORKS ON SITE.



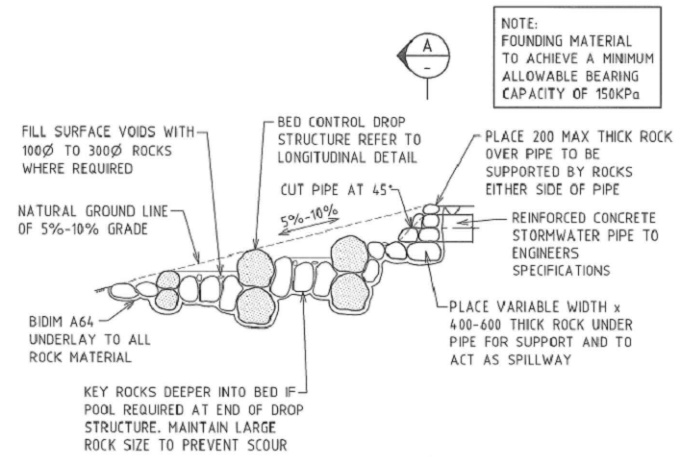
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CONSTRUCTION ISSUE

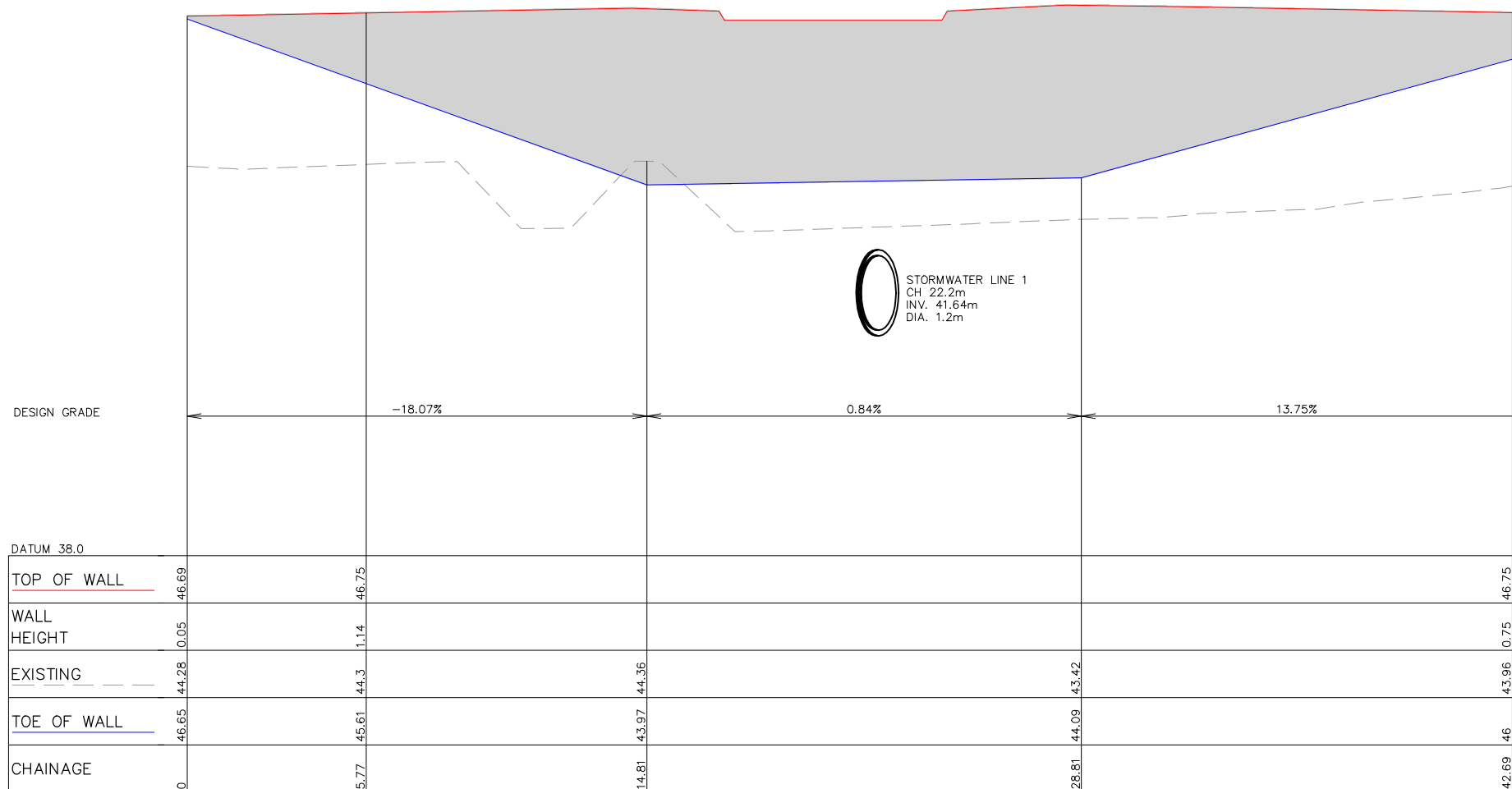
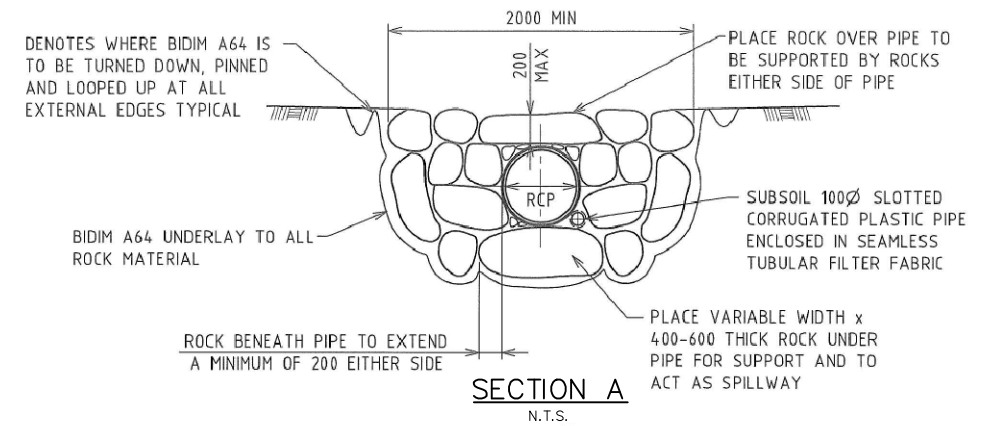
REV.	DATE	AMENDMENT	DESIGN	DRAWN	CHECKED	APPROVED	SCALES		Central Coast 5 Pioneer Avenue, P.O. Box 3717, Tuggerah N.S.W. 2259 Phone: (02) 4305 4300 Fax: (02) 4305 4399 email: coast@adwjohnson.com.au www.adwjohnson.com.au ABN 62 129 445 398	CLIENT 	PROPERTY DESCRIPTION	PROJECT					
1	21.01.22	ISSUED FOR CONSTRUCTION	B.M.	J.J.	B.M.	B.M.					PLAN TITLE	PROPOSED SUBDIVISION					
DESIGN FILE S:\3000001\DESIGN\12D\STAGE 2 CC\DESIGN FILE.project							ALL DIMENSIONS ARE IN METRES. DO NOT SCALE				LOT 100 D.P.12622209 & LOT 1 D.P.859537 EPPING ROAD & LYONPARK ROAD, MACQUARIE PARK SSDA 8903	SURVEYED ADW Johnson	DATUM GDA94 M.G.A. ZONE 56 A.H.D.	PROJECT No. 300001(2) -	DISCIPLINE ENG -	NUMBER 711	REV. 1



ROCK PITCHED HEADWALL AND ENERGY DISSIPATOR PLAN
N.T.S.



LONGITUDINAL SECTION - ROCK PITCHED HEADWALL AND ENERGY DISSIPATOR
N.T.S.



LONGITUDINAL SECTION - BRIDGE ABUTMENT A
HORIZONTAL SCALE 1:100
VERTICAL SCALE 1:50

NOTE:
REFER TO SMEC DESIGN FOR DETAILS.

These plans are referred to in certificate no. **16746** approved by:

LDC

Eric Hausfeld
Registered Certifier

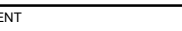
Registration No: BDC 2416
Categories: Certifier - Subdivision
Certifier - Strata
Certifier - Stormwater
Certifier - Road & Drainage
Certifier - Hydraulic (stormwater)

Land Development Certificates
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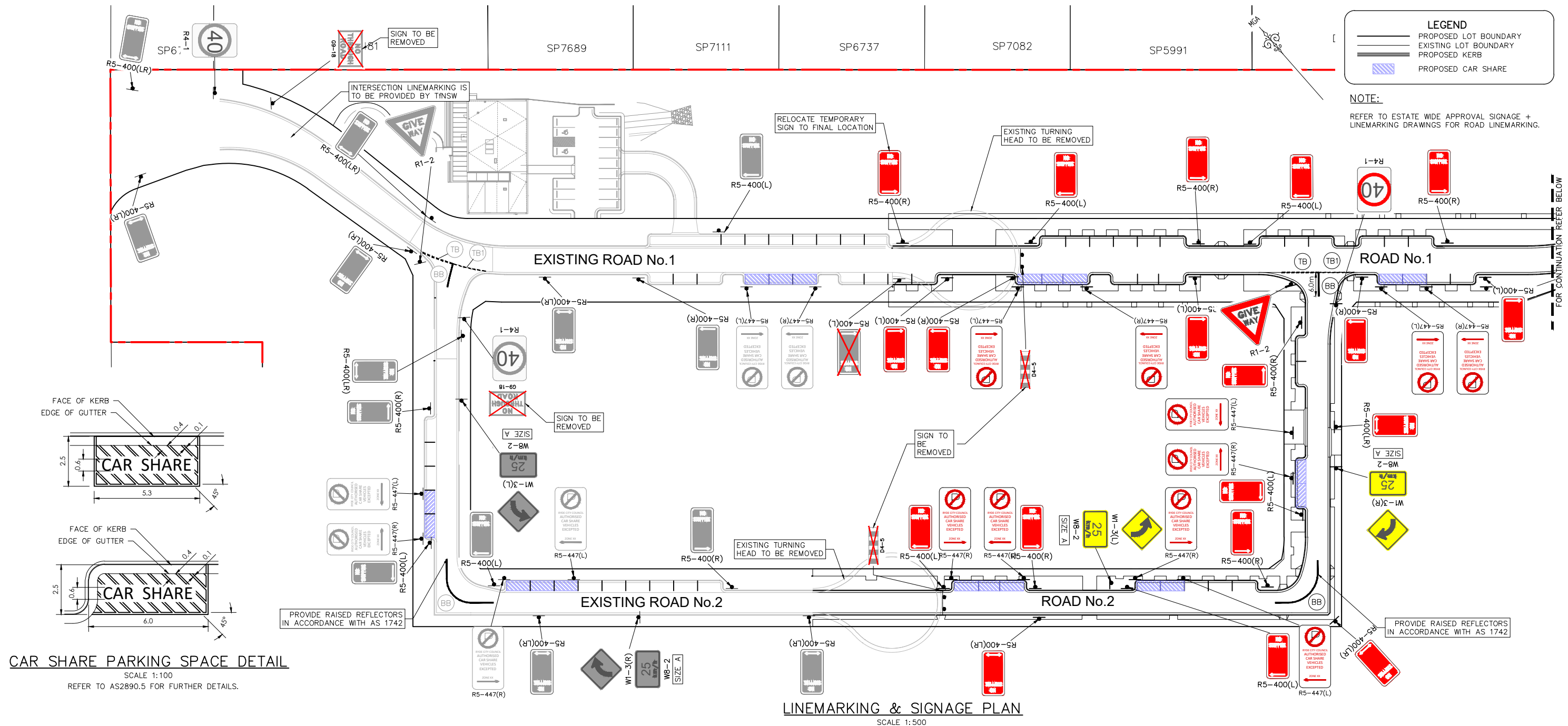
NOTE:
LENGTH OF OUTLET STRUCTURES TO BE TERMINATED AT TOP OF BANK WHERE REQUIRED. FINAL LOCATIONS TO BE COORDINATED ON SITE.



CONSTRUCTION ISSUE

REV.	DATE	AMENDMENT	DESIGN	DRAWN	CHECKED	APPROVED	SCALES		Central Coast 5 Pioneer Avenue, P.O. Box 3717, Tuggerah N.S.W. 2259 Phone: (02) 4305 4300 Fax: (02) 4305 4399 email: coast@adwjohnson.com.au www.adwjohnson.com.au ABN 62 129 445 398	CLIENT 	PROPERTY DESCRIPTION			PROJECT	
1	21.01.22	ISSUED FOR CONSTRUCTION	B.M.	J.J.	B.M.	B.M.					LOT 100 D.P.1262209 & LOT 1 D.P.859537 EPPING ROAD & LYONPARK ROAD, MACQUARIE PARK SSDA 8903			PROPOSED SUBDIVISION	
DESIGN FILE S:\300001\DESIGN\12D\STAGE 2 CC\DESIGN FILE.project							ALL DIMENSIONS ARE IN METRES. DO NOT SCALE				PLAN TITLE BRIDGE ABUTMENT LONGITUDINAL SECTION & HEADWALL OUTLET DETAILS			PROJECT No. 300001(2) -	DISCIPLINE ENG -

ALL DIMENSIONS ARE
IN MILLIMETRES UNLESS
NOTED OTHERWISE



REV.	DATE	AMENDMENT	DESIGN	DRAWN	CHECKED	APPROVED	SCALES
1	21.01.22	ISSUED FOR CONSTRUCTION	B.M.	J.J.	B.M.	B.M.	A1 1:200 A3 1:400

DESIGN FILE S:\300001\DESIGN\12\STAGE 2 CC\DESIGN FILE.project
Plotted By: Ben Myles Plot Date: 21/01/22 2:35:34PM Cad File: S:\300001\DRAWINGS\ENGINEERING\CIVIL\STAGE 2 CC ENG\300001(2)-ENG-751.DWG

adw Johnson

Central Coast
5 Pioneer Avenue,
P.O. Box 3717,
Tuggerah N.S.W. 2259
Phone: (02) 4305 4300
Fax: (02) 4305 4399
email: coast@adwjohnson.com.au
www.adwjohnson.com.au
ABN 62 129 445 398

FRASERS PROPERTY

PROPERTY DESCRIPTION
LOT 100 D.P.1262209 & LOT 1 D.P.859537 EPPING ROAD & LYONPARK ROAD, MACQUARIE PARK SSDA 8903
SURVEYED ADW Johnson
DATUM GDA94 M.G.A. ZONE 56
A.H.D.

PROJECT	PROPOSED SUBDIVISION
PLAN TITLE	LINEMARKING & SIGNAGE PLAN
PROJECT No.	300001(2) -
DISCIPLINE	ENG
NUMBER	751
REV.	1

GENERAL NOTES: -

1. ALL TRESS WITHIN WORKS FOOTPRINT TO BE REMOVED IN ACCORDANCE WITH APPROVED ARBORIST REPORT.
2. ALL TREES OUTSIDE OF WORKS ZONE TO BE PROTECTED.
3. NO TREES TO BE REMOVED UNTIL AUTHORISED BY THE PROJECT ECOLOGIST.
4. TREE REMOVAL AND RETENTION/PROTECTION WORKS TO BE UNDERTAKEN IN ACCORDANCE WITH THE ARBORICULTURAL IMPACT ASSESSMENT 19NEW-13891 DATED FEBRUARY 2020 AND UNDER SUPERVISION OF THE PROJECT ECOLOGIST.

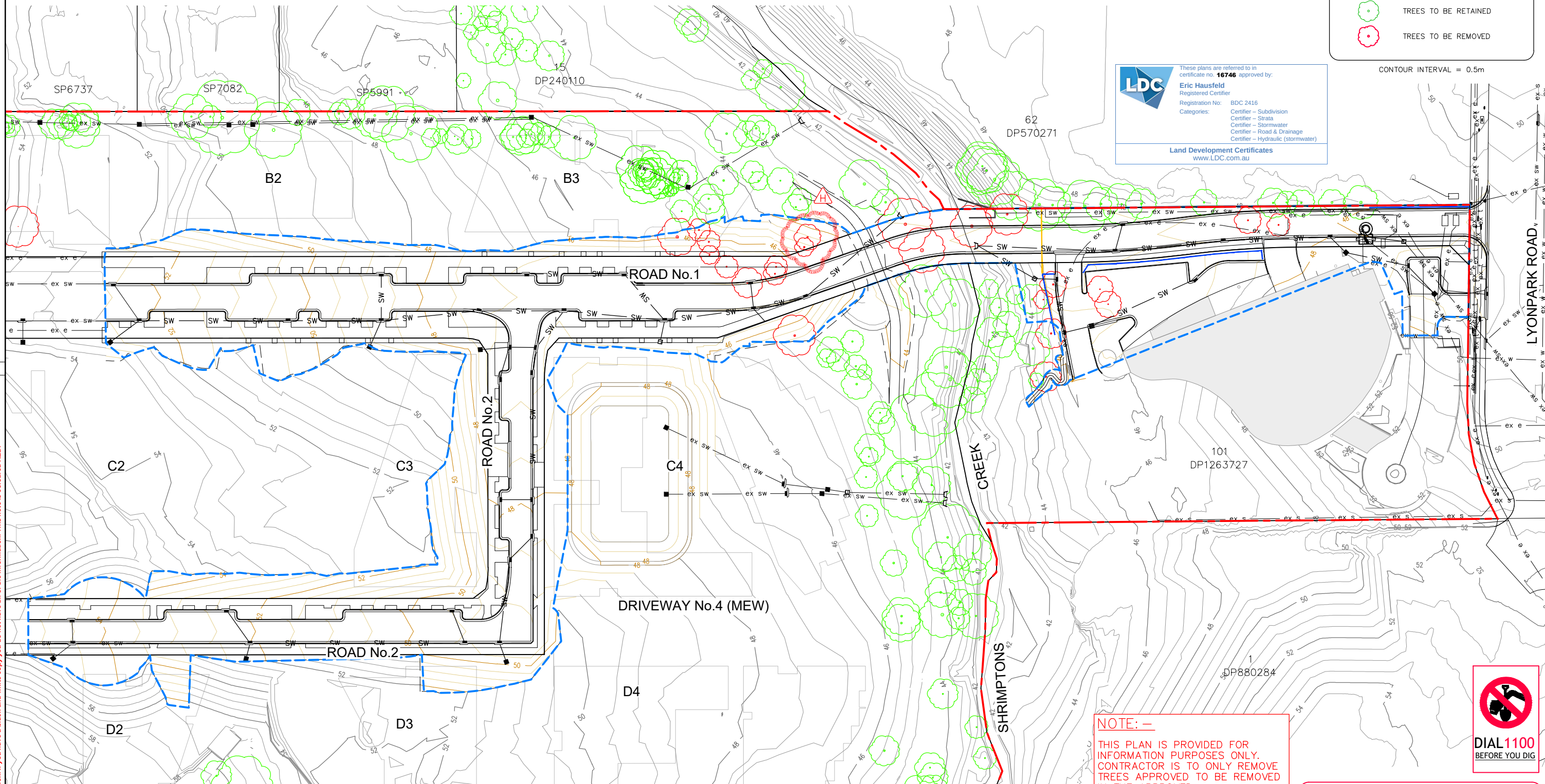
NOTE:
ALL WORKS TO BE UNDERTAKEN IN ACCORDANCE WITH THE BMP AND THE REQUIREMENTS OF THE PROJECT ECOLOGIST.

LEGEND

- SITE BOUNDARY
- LIMIT OF WORKS BOUNDARY
- PROPOSED LOT BOUNDARY
- EXISTING LOT BOUNDARY
- MAJOR CONTOURS
- MINOR CONTOURS
- PROPOSED KERB
- EXISTING KERB
- EXTENTS OF BATTER
- PROPOSED STORMWATER
- EXISTING STORMWATER
- PROPOSED SW PIT
- PROPOSED LINTEL
- PROPOSED HEADWALL
- TREES TO BE RETAINED
- TREES TO BE REMOVED

CONTOUR INTERVAL = 0.5m

LDC
These plans are referred to in certificate no. **16746** approved by:
Eric Hausfeld
Registered Certifier
Registration No: BDC 2416
Categories:
Certifier - Subdivision
Certifier - Strata
Certifier - Stormwater
Certifier - Road & Drainage
Certifier - Hydraulic (stormwater)
Land Development Certificates
www.LDC.com.au



TREE RETENTION PLAN
SCALE 1:500

NOTE: -
THIS PLAN IS PROVIDED FOR INFORMATION PURPOSES ONLY. CONTRACTOR IS TO ONLY REMOVE TREES APPROVED TO BE REMOVED IN THE APPROVED ARBORICULTURAL IMPACT ASSESSMENT.



CONSTRUCTION ISSUE

REV.	DATE	AMENDMENT	DESIGN	DRAWN	CHECKED	APPROVED	SCALES	CLIENT	PROPERTY DESCRIPTION	PROJECT
1	21.01.22	ISSUED FOR CONSTRUCTION	B.M.	J.J.	B.M.	B.M.	A1 1:500 A3 1:1000	Central Coast 5 Pioneer Avenue, P.O. Box 3717, Tuggerah N.S.W. 2259 Phone: (02) 4305 4300 Fax: (02) 4305 4399 email: coast@adwjohnson.com.au www.adwjohnson.com.au ABN 62 129 445 398	LOT 100 D.P.1262209 & LOT 1 D.P.859537 EPPING ROAD & LYONPARK ROAD, MACQUARIE PARK SSDA 8903	PROPOSED SUBDIVISION
DESIGN FILE S:\300001\DESIGN\12D\STAGE 2 CC\DESIGN FILE.project			ALL DIMENSIONS ARE IN METRES. DO NOT SCALE			ADW Johnson		FRASERS PROPERTY	SURVEYED ADW Johnson	DATUM GDA94 M.G.A. ZONE 56 A.H.D.
Plotted By: Ben Myles Plot Date: 21/01/22 2:35:40PM Cad File: S:\300001\DRAWINGS\ENGINEERING\CIVIL\STAGE 2 CC ENG\300001(2)-ENG-801.DWG									PROJECT No. 300001(2) -	DISCIPLINE ENG
									NUMBER 801	REV. 1

NOTE: -

WATERMAIN REQUIRED TO BE LOCALLY DIVERTED AROUND STORMWATER PITS AND STREET LIGHT FOOTINGS. ENSURE ADEQUATE CLEARANCE BETWEEN WATERMAIN AND STRUCTURES. CLEARANCES TO ALLOW FOR WORKING SPACE FOR BORING OF STREET LIGHT FOOTINGS.

NOTE: -

CONTRACTOR TO UNDERTAKE CLASH CHECK OF ALL SERVICES PRIOR TO COMMENCEMENT.

NOTE: -

TEMPORARY WORKS NOT SHOWN. REFER TENDER SET OF DRAWINGS PREPARED BY ADWJ FOR FURTHER DETAILS.

NOTE: -

CONTRACTOR TO CONFIRM SERVICES AGAINST LANDSCAPE DRAWINGS PRIOR TO COMMENCEMENT

NOTE: -

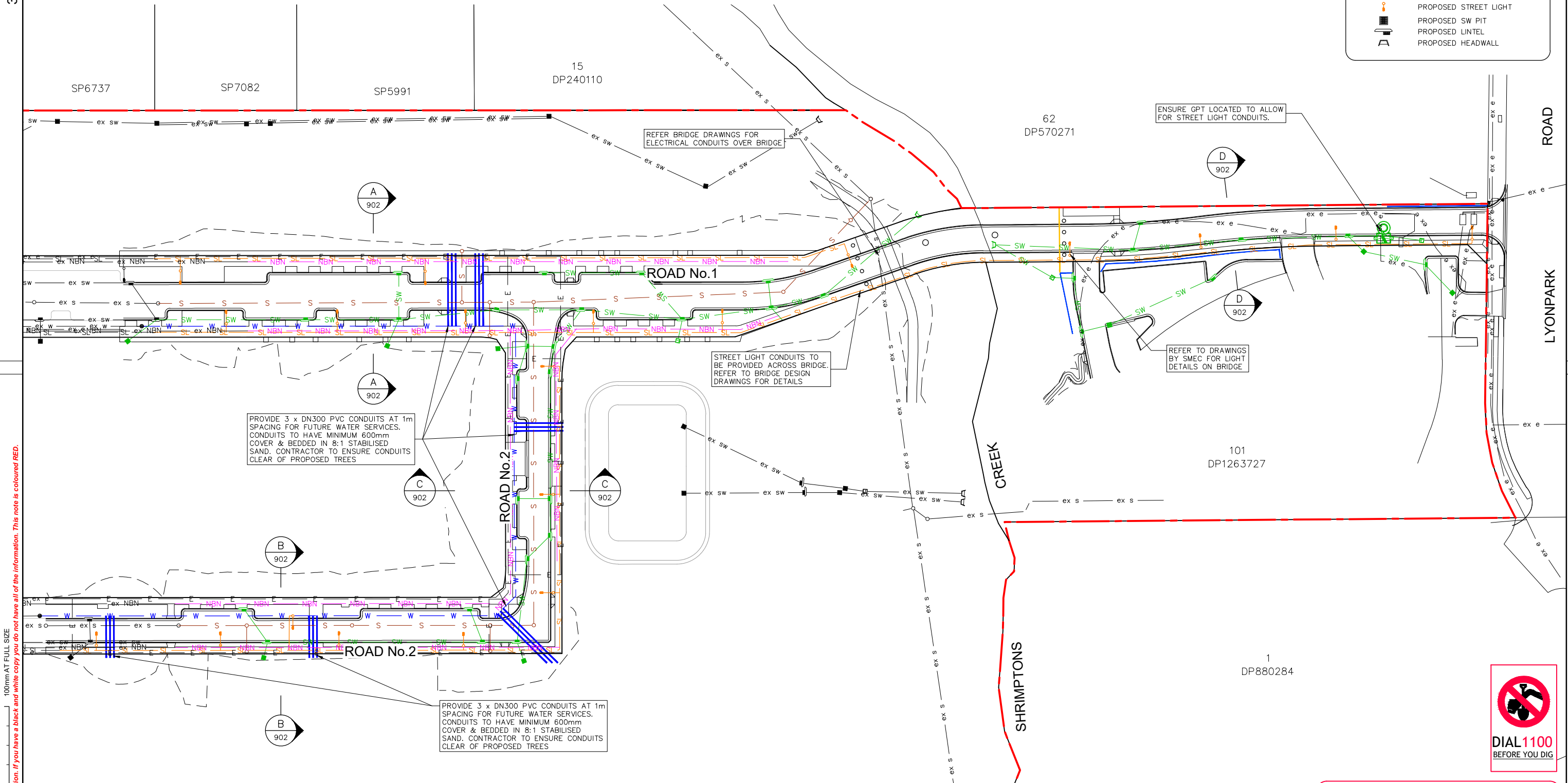
ALL SERVICES SHOWN INDICATIVELY ONLY. REFER TO RELEVANT DESIGNS FOR SETOUT INFORMATION.

GENERAL NOTES: -

- SERVICES SHOWN FOR INFORMATION ONLY. ALL SERVICES TO BE CONSTRUCTED IN ACCORDANCE WITH APPROVED CONSTRUCTION DOCUMENTATION, RYDE CITY COUNCIL STANDARDS AND THE RELEVANT SERVICE AUTHORITY STANDARDS.
- CONTRACTOR TO LOCALLY FILL AROUND ALL SERVICE FITTINGS IF LANDSCAPE WORKS NOT CONSTRUCTED.

LEGEND

	SITE BOUNDARY
	LIMIT OF WORKS BOUNDARY
	PROPOSED LOT BOUNDARY
	EXISTING LOT BOUNDARY
	PROPOSED KERB
	PROPOSED STORMWATER
	PROPOSED SEWER
	PROPOSED WATER
	PROPOSED PVC CONDUIT
	PROPOSED NBN
	PROPOSED ELECTRICITY
	PROPOSED HIGH VOLTAGE
	PROPOSED STREET LIGHT CABLING
	PROPOSED STREET LIGHT
	PROPOSED SW PIT
	PROPOSED LINTEL
	PROPOSED HEADWALL



COMBINED SERVICES PLAN

SCALE 1:500

REV.	DATE	AMENDMENT	DESIGN	DRAWN	CHECKED	APPROVED	SCALES
1	21.01.22	ISSUED FOR CONSTRUCTION	B.M.	J.J.	B.M.	B.M.	A1 1:500 A3 1:1000



Central Coast
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email: coast@adwjohnson.com.au
www.adwjohnson.com.au
ABN 62 129 445 398

CLIENT



PROPERTY DESCRIPTION

LOT 100 D.P.1262209 & LOT 1 D.P.859537
EPPING ROAD & LYONPARK ROAD,
MACQUARIE PARK
SSDA 8903

SURVEYED
ADW JohnsonDATUM
GDA94 M.G.A. ZONE 56

A.H.D.

PROJECT

PROPOSED SUBDIVISION

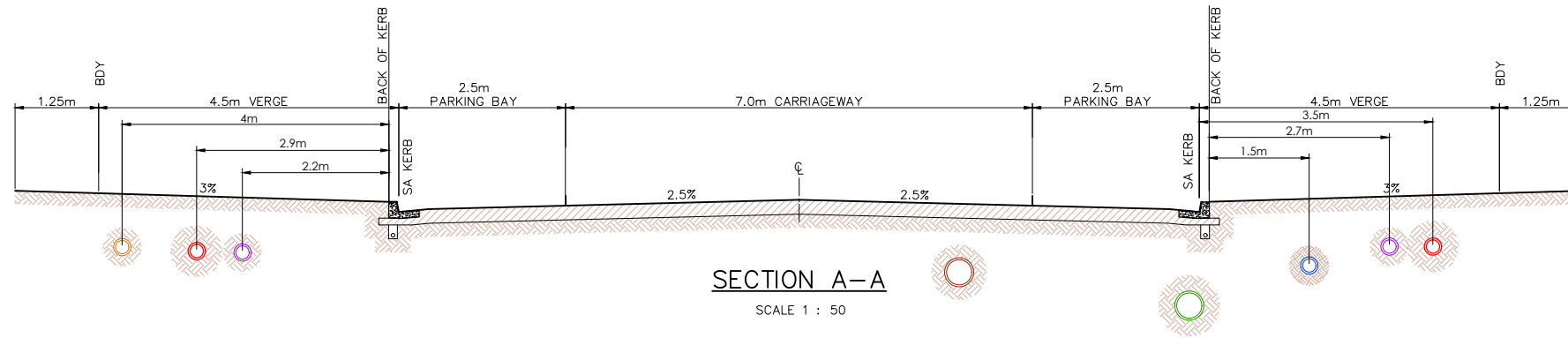
PLAN TITLE

COMBINED SERVICES PLAN

PROJECT No.
300001(2) -DISCIPLINE
ENGNUMBER
901REV.
1

CONSTRUCTION ISSUE





LEGEND	
	PROPOSED STORMWATER
	PROPOSED WATER
	PROPOSED SEWER
	PROPOSED NBN
	PROPOSED ELECTRICAL
	EXISTING HIGH VOLTAGE
	PROPOSED STREET LIGHTING

GENERAL NOTES: -

- SERVICES SHOWN FOR INFORMATION ONLY. ALL SERVICES TO BE CONSTRUCTED IN ACCORDANCE WITH APPROVED CONSTRUCTION DOCUMENTATION, RYDE CITY COUNCIL STANDARDS AND THE RELEVANT SERVICE AUTHORITY STANDARDS.

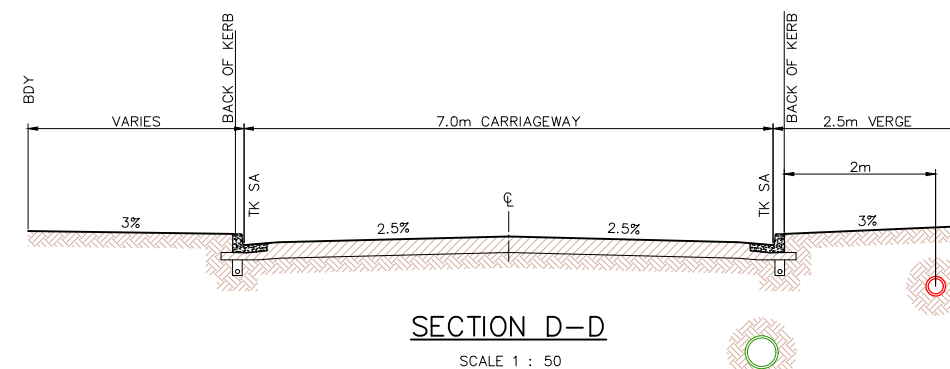
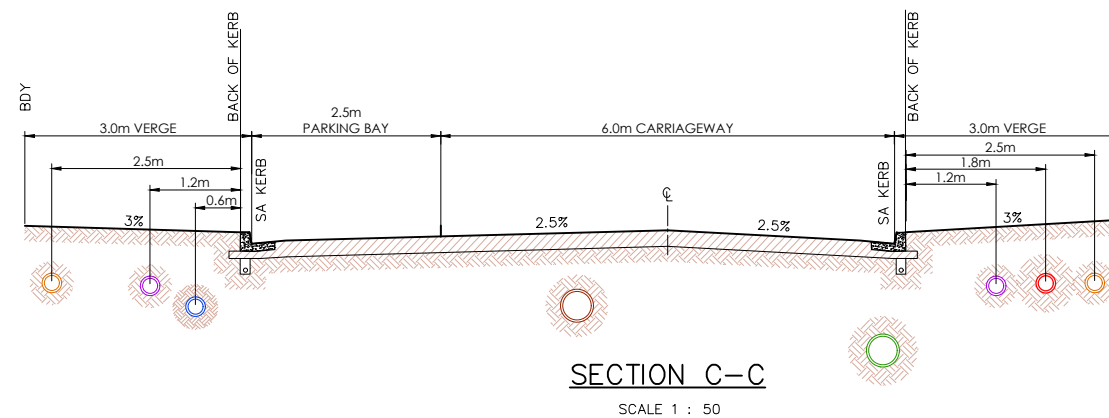
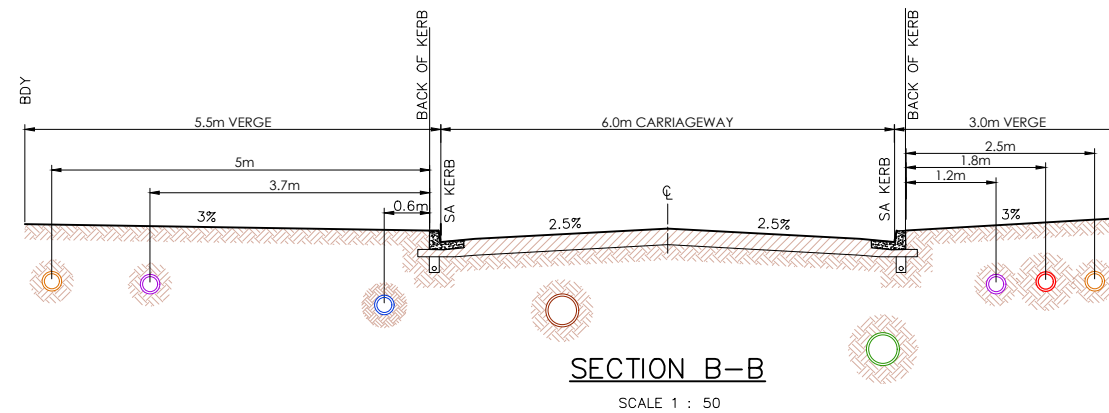
NOTE: -

WATERMAIN REQUIRED TO BE LOCALLY DIVERTED AROUND STORMWATER PITS AND STREET LIGHT FOOTINGS. ENSURE ADEQUATE CLEARANCE BETWEEN WATERMAIN AND STRUCTURES. CLEARANCES TO ALLOW FOR WORKING SPACE FOR BORING OF STREET LIGHT FOOTINGS.

NOTE: -

CONTRACTOR TO UNDERTAKE CLASH CHECK OF ALL SERVICES PRIOR TO COMMENCEMENT.

SERVICE LEVELS
INDICATIVE ONLY



CONSTRUCTION ISSUE

REV.	DATE	AMENDMENT	DESIGN	DRAWN	CHECKED	APPROVED	SCALES
1	21.01.22	ISSUED FOR CONSTRUCTION	B.M.	J.J.	B.M.	B.M.	A1 1:50 A3 1:100

adw Johnson

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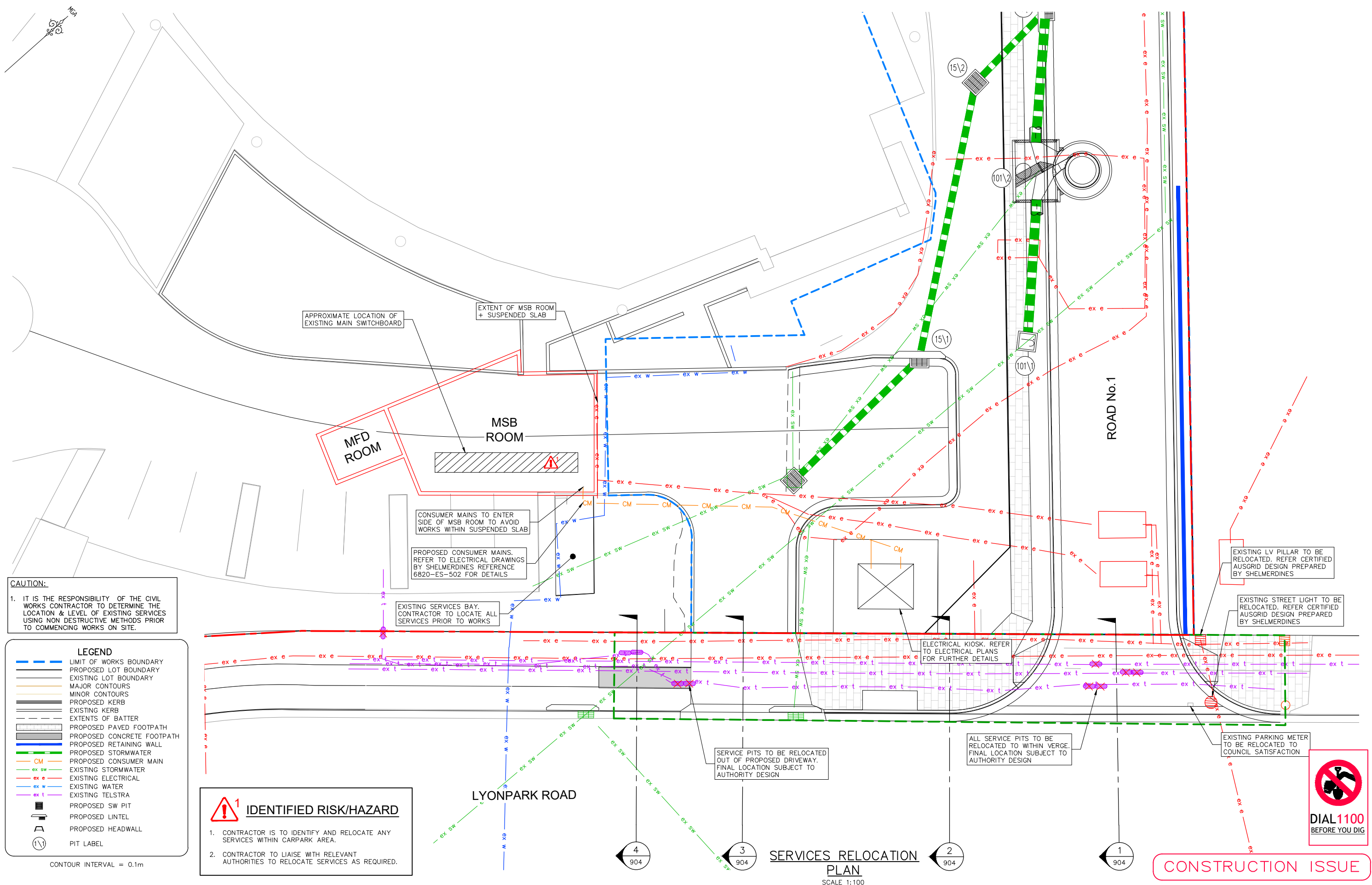
CLIENT

FRASERS PROPERTY

PROPERTY DESCRIPTION

LOT 100 D.P.1262209 & LOT 1 D.P.859537
EPPING ROAD & LYONPARK ROAD,
MACQUARIE PARK
SSDA 8903

PROJECT			
PROPOSED SUBDIVISION			
PLAN TITLE			
TYPICAL ROAD PROFILES, SERVICE LOCATIONS			
SURVEYED	DATUM	PROJECT No.	REV.
ADW Johnson	GDA94 M.G.A. ZONE 56 A.H.D.	300001(2) -	1
DISCIPLINE	NUMBER		
ENG	902		



REV.	DATE	AMENDMENT	DESIGN	DRAWN	CHECKED	APPROVED	SCALES
1	21.01.22	ISSUED FOR CONSTRUCTION	B.M.	J.J.	B.M.	B.M.	A1 1:100 A3 1:200

DESIGN FILE S:\300001\DESIGN\12D\STAGE 2 CC\DESIGN FILE.project
ALL DIMENSIONS ARE IN METRES. DO NOT SCALE

adw Johnson

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ABN 62 129 445 398

FRASERS PROPERTY

CLIENT

PROPERTY DESCRIPTION

LOT 100 D.P.1262209 & LOT 1 D.P.859537
EPPING ROAD & LYONPARK ROAD,
MACQUARIE PARK
SSDA 8903

SURVEYED
ADW Johnson

DATUM
GDA94 M.G.A. ZONE 56 A.H.D.

PROJECT

PROPOSED SUBDIVISION

PLAN TITLE

SERVICES RELOCATION PLAN

PROJECT No.
300001(2) -

DISCIPLINE
ENG -

NUMBER
903

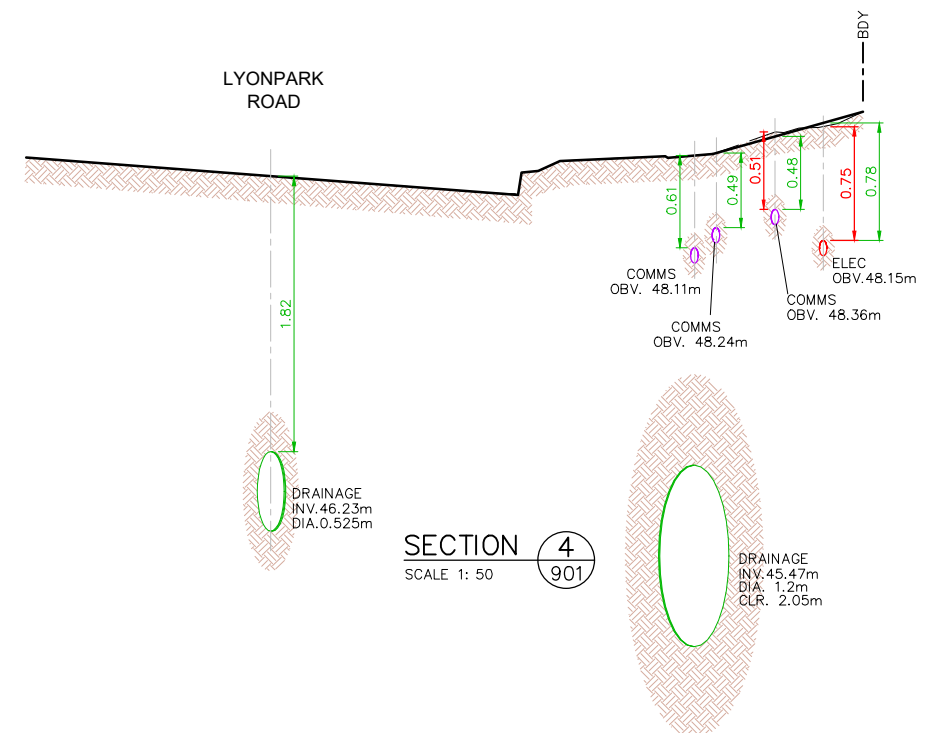
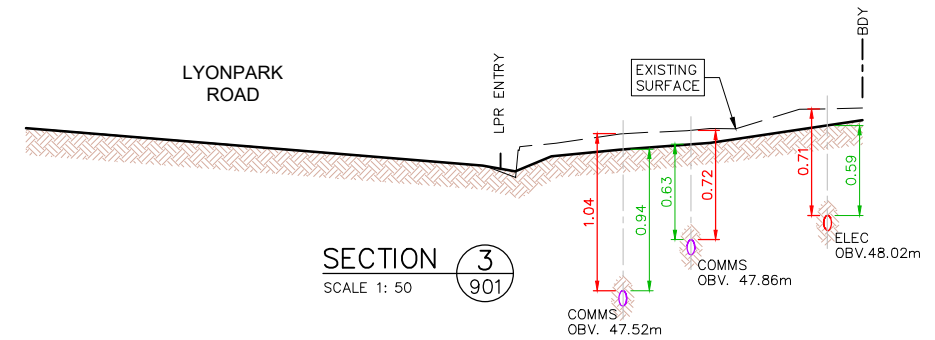
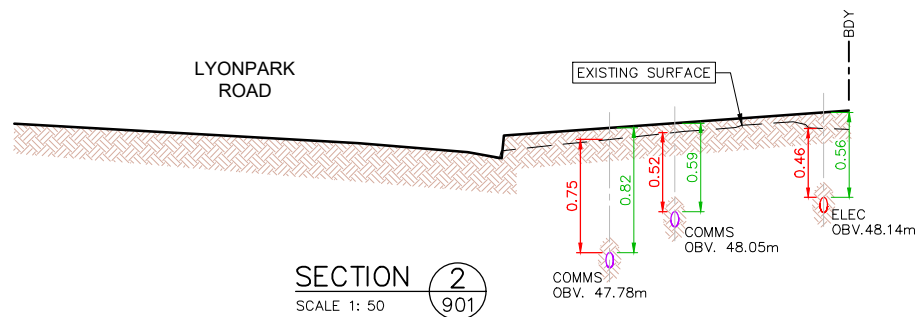
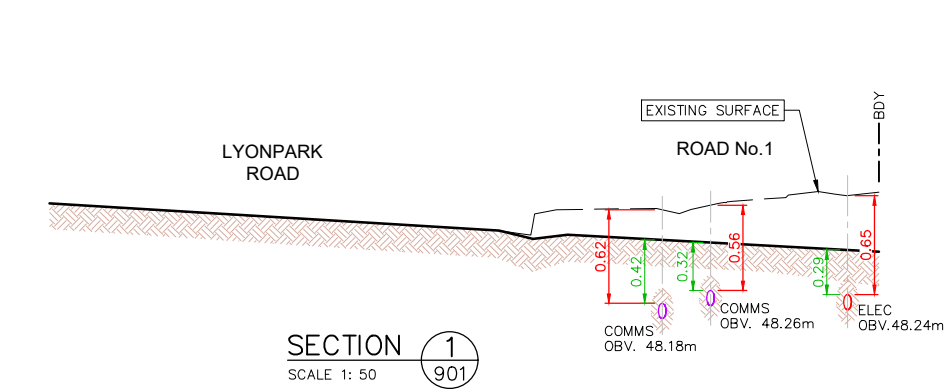
REV.
1

LEGEND

COVER TO EXISTING SERVICES BASED
UPON PROPOSED DESIGN LEVELS

EXISTING COVER

NOTE:
ALL SERVICES TO BE LOWERED
TO STANDARD COVER WHERE
REQUIRED. FINAL LOCATIONS
SUBJECT TO AUTHORITY DESIGN



DIAL 1100
BEFORE YOU DIG

CONSTRUCTION ISSUE

REV.	DATE	AMENDMENT	DESIGN	DRAWN	CHECKED	APPROVED	SCALES		Central Coast 5 Pioneer Avenue, P.O. Box 3717, Tuggerah N.S.W. 2259 Phone: (02) 4305 4300 Fax: (02) 4305 4399 email: coast@adwjohnson.com.au www.adwjohnson.com.au ABN 62 129 445 398		CLIENT	PROPERTY DESCRIPTION LOT 100 D.P.1262209 & LOT 1 D.P.859537 EPPING ROAD & LYONPARK ROAD, MACQUARIE PARK SSDA 8903	PROJECT					
													PROPOSED SUBDIVISION					
										PLAN TITLE		SERVICES RELOCATION SECTIONS						
DESIGN FILE S:\300001\DESIGN\12D\STAGE 2 CC\DESIGN FILE.project							ALL DIMENSIONS ARE IN METRES. DO NOT SCALE				SURVEYED ADW Johnson		DATUM GDA94 M.G.A. ZONE 56 A.H.D.		PROJECT No. 300001(2) -	DISCIPLINE ENG -	NUMBER 904	REV. 1