

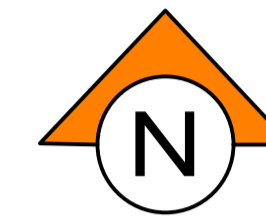
LOT 500 WIRRING ROAD COWARAMUP STAGE 01B

DRAWING LIST

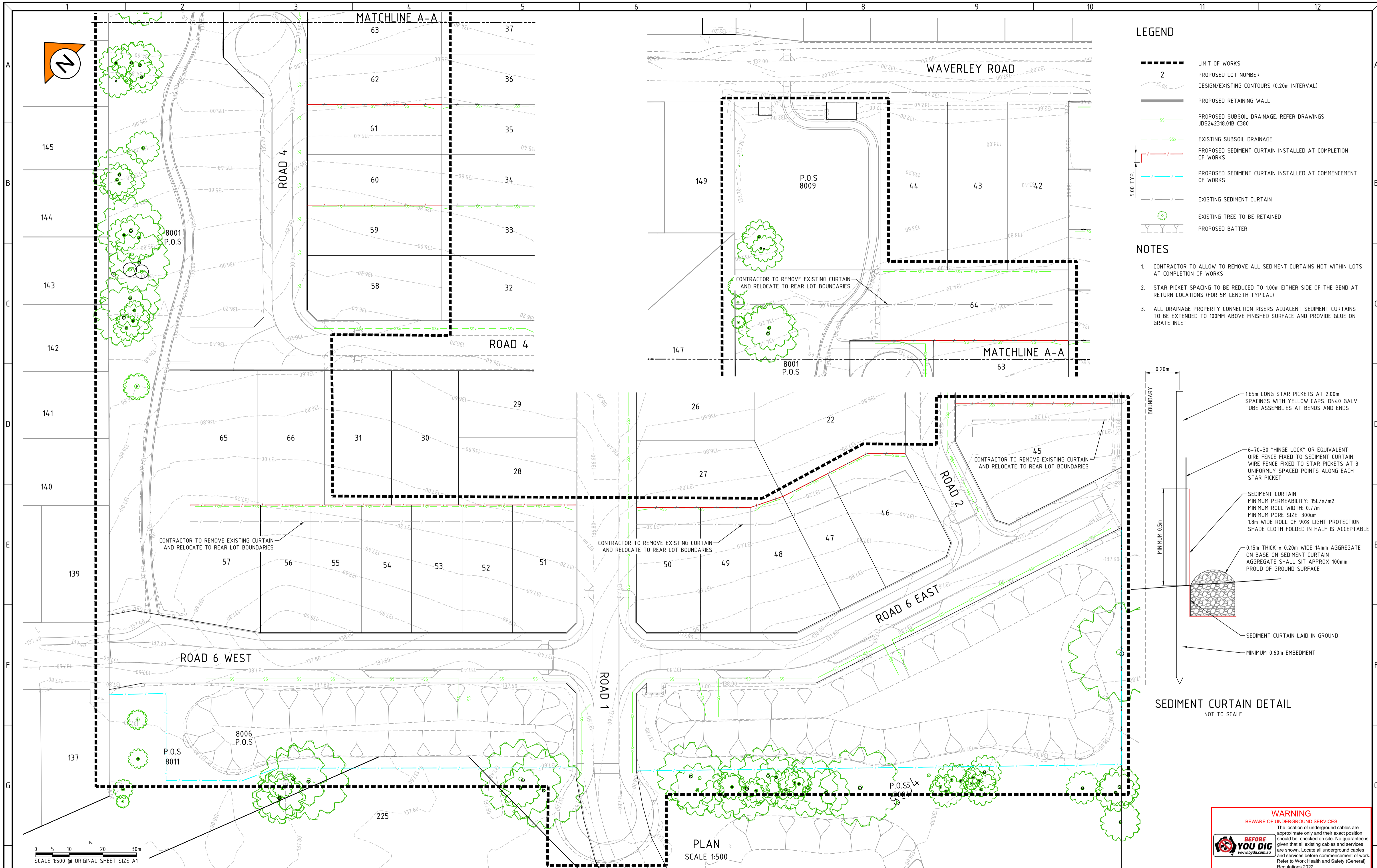
JDS242318.01B_C000	COVER SHEET
JDS242318.01B_C060	SEDIMENT CONTROL PLAN
JDS242318.01B_C100	EARTHWORKS PLAN
JDS242318.01B_C105	EARTHWORKS SECTIONS
JDS242318.01B_C201	SEWER RETICULATION PLAN
JDS242318.01B_C300	ROADS AND TREATMENT PLAN
JDS242318.01B_C320	ROAD LONGITUDINAL SECTIONS - SHEET 1
JDS242318.01B_C321	ROAD LONGITUDINAL SECTIONS - SHEET 2
JDS242318.01B_C322	ROAD LONGITUDINAL SECTIONS - SHEET 3
JDS242318.01B_C330	ROAD INTERSECTION DETAILS - SHEET 1
JDS242318.01B_C331	ROAD INTERSECTION DETAILS - SHEET 2
JDS242318.01B_C340	SIGNS AND LINE MARKING PLAN
JDS242318.01B_C350	DRAINAGE PLAN
JDS242318.01B_C370	DRAINAGE LONGITUDINAL SECTIONS - SHEET 1
JDS242318.01B_C371	DRAINAGE LONGITUDINAL SECTIONS - SHEET 2
JDS242318.01B_C372	DRAINAGE LONGITUDINAL SECTIONS - SHEET 3
JDS242318.01B_C380	SUBSOIL DRAINAGE PLAN
JDS242318.01B_C400	WATER RETICULATION PLAN - SHEET 1
JDS242318.01B_C401	WATER RETICULATION PLAN - SHEET 2

DRAWING LIST

JDS242318.0_C900	STANDARD ROAD DETAILS - SHEET 1
JDS242318.0_C901	STANDARD ROAD DETAILS - SHEET 2
JDS242318.0_C905	STANDARD ROAD DETAILS - BIN PADS
JDS242318.0_C910	STANDARD DRAINAGE DETAILS - SHEET 1
JDS242318.0_C911	STANDARD DRAINAGE DETAILS - SHEET 2
JDS242318.0_C912	STANDARD DRAINAGE DETAILS - SHEET 3
JDS242318.0_C913	STANDARD DRAINAGE DETAILS - SHEET 4



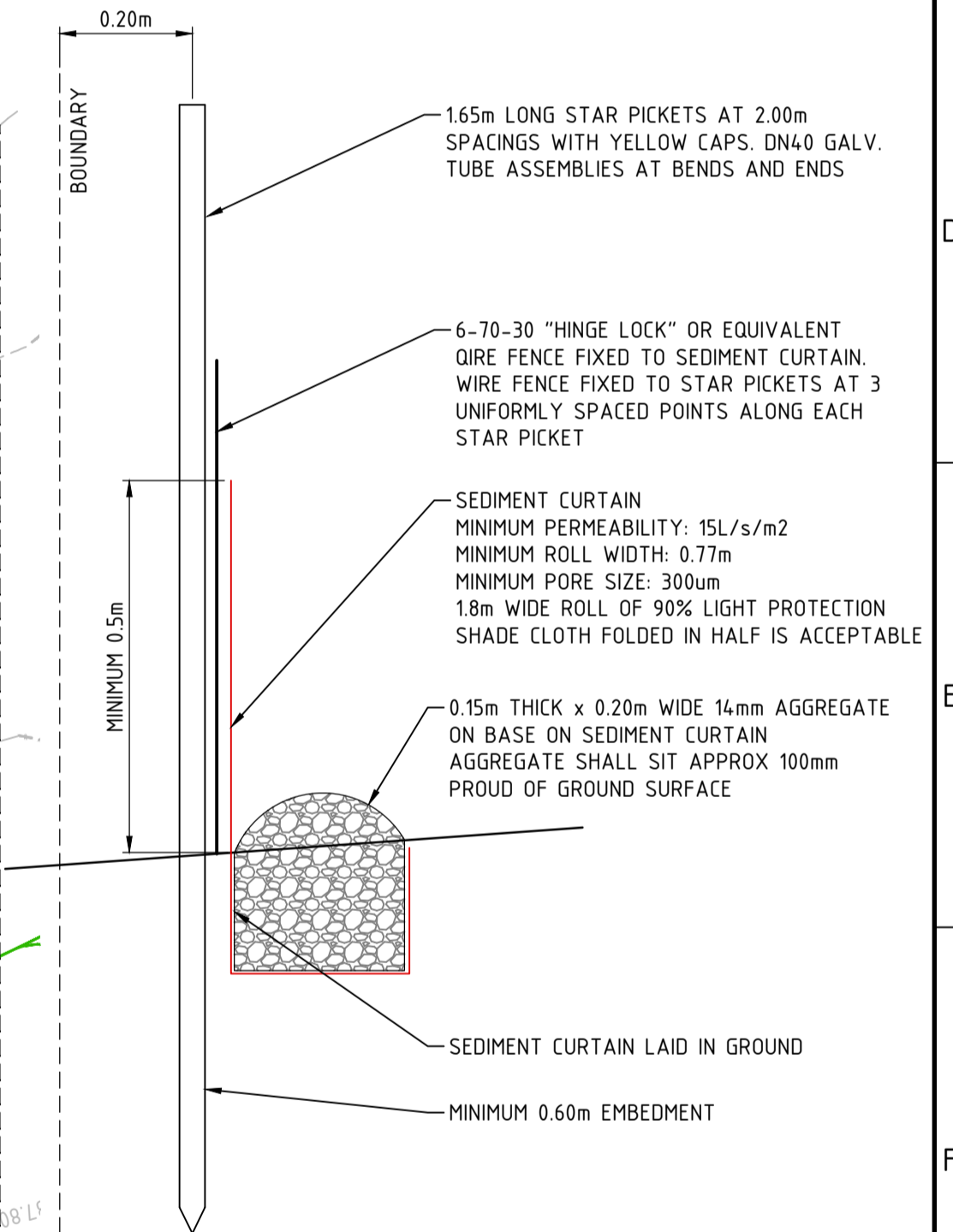
CONTRACT No. JDS242318.01B
WAPC No. 200656



LEGEND

- LIMIT OF WORKS
- PROPOSED LOT NUMBER
- DESIGN/EXISTING CONTOURS (0.20m INTERVAL)
- PROPOSED RETAINING WALL
- PROPOSED SUBSOIL DRAINAGE REFER DRAWINGS JDS242318.01B C380
- EXISTING SUBSOIL DRAINAGE
- PROPOSED SEDIMENT CURTAIN INSTALLED AT COMPLETION OF WORKS
- PROPOSED SEDIMENT CURTAIN INSTALLED AT COMMENCEMENT OF WORKS
- EXISTING SEDIMENT CURTAIN
- EXISTING TREE TO BE RETAINED
- PROPOSED BATTER

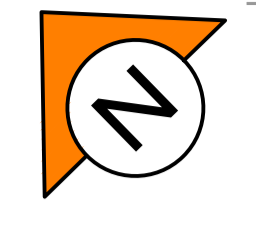
- ### NOTES
- CONTRACTOR TO ALLOW TO REMOVE ALL SEDIMENT CURTAINS NOT WITHIN LOTS AT COMPLETION OF WORKS
 - STAR PICKET SPACING TO BE REDUCED TO 100m EITHER SIDE OF THE BEND AT RETURN LOCATIONS (FOR 5M LENGTH TYPICAL)
 - ALL DRAINAGE PROPERTY CONNECTION RISERS ADJACENT SEDIMENT CURTAINS TO BE EXTENDED TO 100MM ABOVE FINISHED SURFACE AND PROVIDE GLUE ON GRATE INLET



WARNING
BEWARE OF UNDERGROUND SERVICES

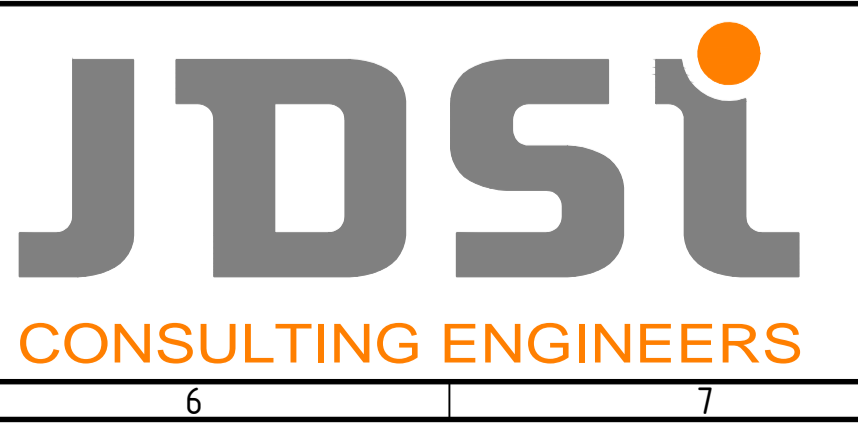
The location of underground cables are approximate only and their exact position should be checked on site. No guarantee is given that all existing cables and services are shown. Locate all underground cables and services before commencement of work. Refer to Work Health and Safety (General) Regulations 2022.

BEFORE YOU DIG
www.bydl.com.au



REV	DATE	DRAWN	CHECKED	APPROVED	DESCRIPTION
0	29.01.26	BWW	BJW	BJW	ISSUED FOR CONSTRUCTION
B	09.12.25	LV	BWW	BJW	FINAL SUBMISSION FOR APPROVAL
A	05.09.25	LV	BWW	BJW	INITIAL SUBMISSION FOR APPROVAL

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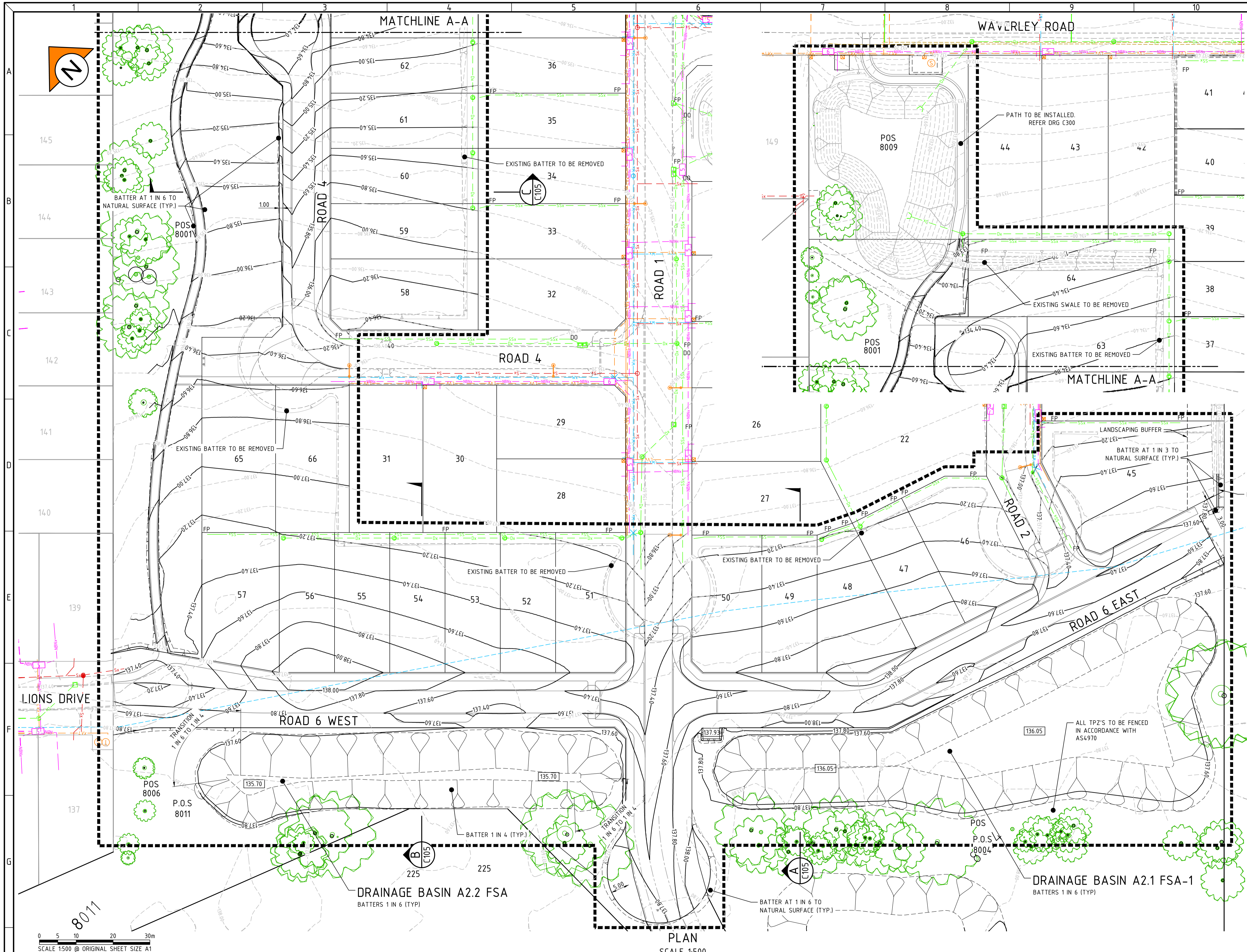


CLIENT:
Birdwood
COWARAMUP - MASTERPLANNED COMMUNITY

PROJECT:
LOT 500 WIRING ROAD
COWARAMUP STAGE 01B

DRAWING TITLE:
SEDIMENT CONTROL PLAN

DRAWN LVU	WAPC No. 200656
DESIGNED LVU	SCALE @ A1 1:500
PROJECT MANAGER B. WASHFOLD	DATUM AHD71
JDSi PROJECT No. JDS242318.01B	CO-ORDS MRCG94
DRAWING No. C060	REVISION 0



- ### NOTES
- THIS DRAWING SHALL BE READ IN CONJUNCTION WITH THE CONTRACT DRAWINGS AND SPECIFICATION
 - SETOUT OF ROAD CENTERLINE, FACE OF KERB AND EDGE OF SEAL FOR UN-KERBED ROADS SHALL BE BASED ON SUPPLIED AUTOCAD XBASE_JDS242318.01B DATA. ALL OTHER WORKS SHALL BE SETOUT BASED ON INFORMATION CONTAINED ON THE CONTRACT DRAWINGS AND SPECIFICATION
 - ALL DIMENSIONS SHOWN ARE IN METRES UNLESS OTHERWISE SHOWN
 - SURVEY DATA PROVIDED BY MNG
 - ALL LEVELS SHALL BE DETERMINED FROM BENCH MARKS ESTABLISHED BY THE PROJECT SURVEYOR
 - ALL SETBACKS TO BE 3.0m FROM FRONT BOUNDARY UNLESS NOTED OTHERWISE
 - ALL LEVELS ARE FINISHED SURFACE LEVELS. ROADS, FOOTPATHS AND HARDSTANDS TO BE BOXED OUT TO APPROPRIATE DEPTHS
 - FOR RETAINING WALL LEVELS REFER TO DRAWING C110 OF THIS SET
 - GEOTECHNICAL INSPECTIONS AND ASSESSMENTS TO BE CARRIED OUT AS PER SPECIFICATION AND AT RECOMMENDATION FROM THE PRINCIPAL NOMINATED GEOTECHNICAL CONSULTANT
 - EXISTING SERVICES ARE SHOWN FOR INFORMATION ONLY - FOR CONSTRUCTION DETAILS REFER TO RELEVANT SERVICES DRAWINGS
 - THE CONTRACTOR SHALL CUT AND FILL THE SITE TO ACHIEVE THE SPECIFIED FINISHED SURFACE LEVELS. ONLY GRAVELLY CUT MATERIAL SHALL BE USED AS FILL AND SHALL BE DONE SO UNDER THE SUPERVISION OF AND TO THE ACCEPTANCE OF THE GEOTECHNICAL ENGINEER. CLAY CUT MATERIAL SHALL NOT BE USED AS FILL AND IS TO BE REMOVED FROM SITE AND CLAIMED VIA THE APPROPRIATE PROVISIONAL ITEMS. THE CONTRACTOR IS RESPONSIBLE FOR SCHEDULING AND SEQUENCING WORKS TO ACHIEVE THE INTENDED FINISHED PRODUCT AND OUTCOMES
 - EXCESS GRAVELLY CUT MATERIAL SHALL BE STOCKPILED ON SITE WHERE DIRECTED BY THE SUPERINTENDENT WITHIN 1km OF THE WORKS AREA. THE CONTRACTOR SHALL CONFIRM AND AGREE A LOCATION WITH SUPERINTENDENT PRIOR TO ANY STOCKPILING OCCURRING
 - EXCESS CLAY MATERIAL SHALL BE REMOVED FROM SITE AND CLAIMED VIA THE APPROPRIATE PROVISIONAL ITEM
 - ALL LOTS THAT AREN'T SPECIFICALLY SHOWN TO BE EARTHWORKED SHALL HAVE TOPSOIL STRIPPED, BE PROOF ROLLED, AND BE GRADED TO SMOOTH OUT AND REMOVE ANY TRAPPED LOW AREAS AND SHALL SUBSEQUENTLY HAVE TOPSOIL RESPREAD
 - THE CONTRACTOR SHALL STRIP TOPSOIL FROM ALL AREAS TO BE EARTHWORKED AND PROVIDE MINIMUM 48 HOURS NOTICE TO THE GEOTECHNICAL ENGINEER AND THE LOCAL GOVERNMENT TO INSPECT AND APPROVE THE STRIPPED SURFACE PRIOR TO FURTHER EARTHWORKS OCCURRING
 - TOPSOIL SHALL BE RESPREAD TO ALL LOTS, ALL VERGES AND ALL BATTERS ON COMPLETION OF EARTHWORKS TO THE REQUIREMENTS OF THE SPECIFICATION (E.G. IN TERMS OF SCREENING OUT). EXCESS TOPSOIL SHALL BE REMOVED FROM SITE AND CLAIMED VIA THE APPROPRIATE PROVISIONAL ITEM
 - ALL AREAS DISTURBED OR AFFECTED BY CONSTRUCTION ACTIVITIES SHALL BE MADE GOOD AND HAVE TOPSOIL REINSTATED
 - THE NEED FOR SURFACE STABILISATION VIA HYDROMULCH SHALL BE DETERMINED IN CONSULTATION WITH THE SUPERINTENDENT AND LOCAL AUTHORITY AS THE WORKS PROGRESS. IF DEEMED REQUIRED, HYDROMULCHING SHALL BE UNDERTAKEN AND CLAIMED VIA THE APPROPRIATE PROVISIONAL ITEM
 - SITE STABILISATION, MANAGEMENT OF STORMWATER RUNOFF, MANAGEMENT OF EROSION AND SEDIMENT CONTROL DURING THE WORKS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE ALLOWED FOR WITHIN THE LUMP SUM TENDER

- ### LEGEND
- LIMIT OF WORKS
 - LOT NUMBER
 - PROPOSED CONTOURS (0.20m INTERVAL)
 - EXISTING CONTOURS (0.20m INTERVAL)
 - PROPOSED EARTHWORK/PAD LEVEL
 - PROPOSED ROAD / PATH
 - EXISTING RETAINING WALL
 - PROPOSED RETAINING WALL
 - EXISTING ROAD/TRACK
 - FUTURE ROAD / PATH
 - EXISTING BATTER
 - EXISTING SEWER
 - EXISTING WATER
 - EXISTING DRAINAGE
 - EXISTING SUBSOIL DRAINAGE
 - EXISTING LOW VOLTAGE CABLE
 - EXISTING HIGH VOLTAGE CABLE
 - EXISTING NBN
 - EXISTING TELECOMMS
 - PROPOSED BATTER
 - EXISTING TREE TO BE RETAINED
 - BASIN TWL 1% AEP TOP WATER LEVEL
 - EXISTING STREET LIGHT

WARNING

BEWARE OF UNDERGROUND SERVICES

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REV	DATE	DRAWN	CHECKED	APPROVED	ISSUED FOR CONSTRUCTION
0	29.01.26	BWW	BJW	BJW	ISSUED FOR CONSTRUCTION
B	09.12.25	LV	BWW	BJW	FINAL SUBMISSION FOR APPROVAL
A	05.09.25	LV	BWW	BJW	INITIAL SUBMISSION FOR APPROVAL

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CONSULTING ENGINEERS

COWARAMUP • MASTERPLANNED COMMUNITY

CLIENT:
**LOT 500 WIRING ROAD
COWARAMUP STAGE 01B**

PROJECT:
**LOT 500 WIRING ROAD
COWARAMUP STAGE 01B**

DRAWING TITLE:
EARTHWORKS PLAN

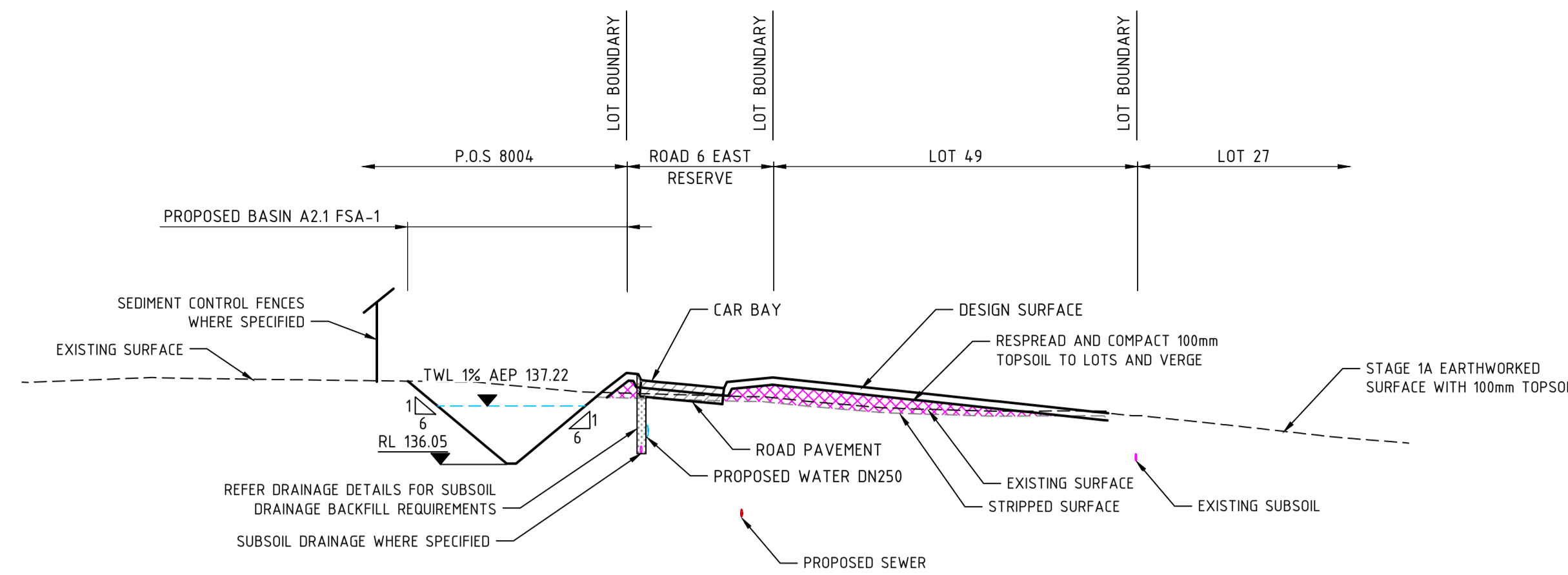
DRAWN L.VU	WAPC No. 200656	SCALE @ A1 1:500
DESIGNED L.VU	DATUM AHD71	CO-ORDS MRC694
PROJECT MANAGER B.WASHFOLD	JDSi PROJECT No. JDS242318.01B	DRAWING No. C100
		REVISION 0

NOTES

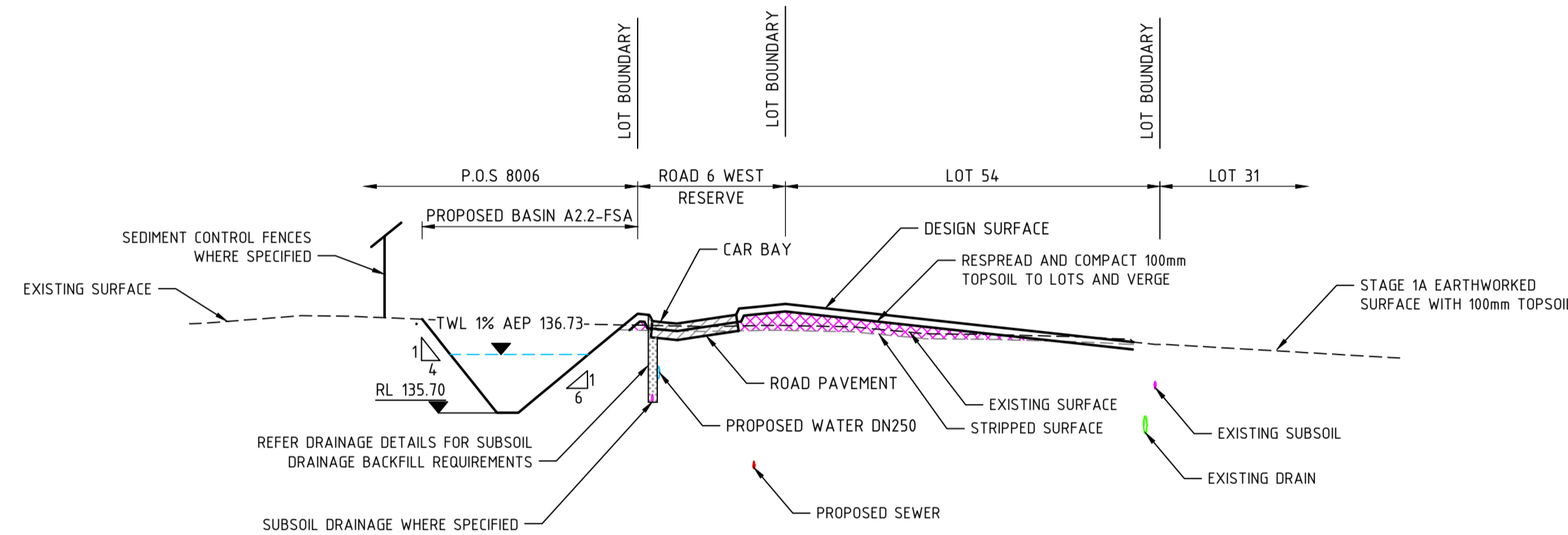
1. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH THE CONTRACT DRAWINGS AND SPECIFICATIONS.
2. ALL DIMENSIONS ARE IN METRES UNLESS SHOWN OTHERWISE.

LEGEND

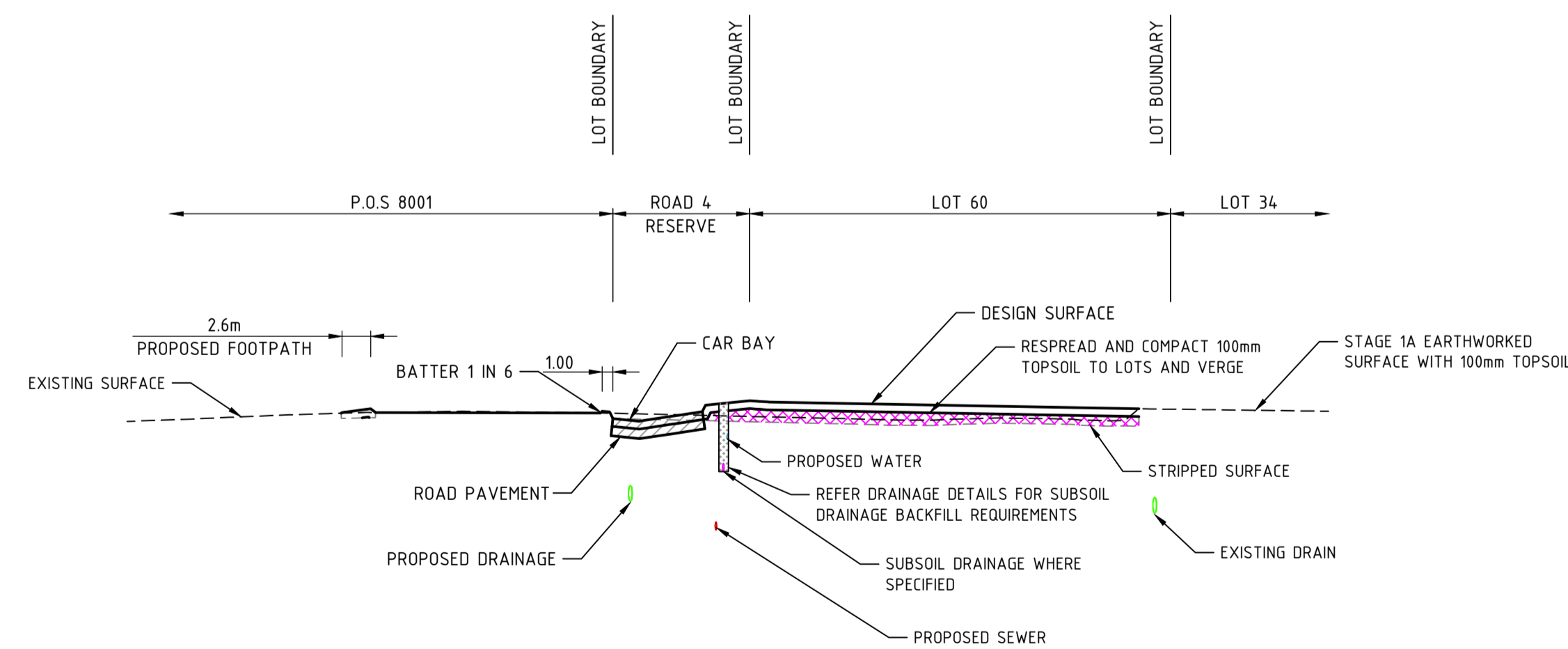
 CUT TO FILL ON SITE SANDY /GRAVELLY MATERIAL ONLY, NO CLAY OR ROCK



SECTION A
HORIZ 1:500
VERT 1:100
C100



SECTION B
HORIZ 1:500
VERT 1:100
C100



SECTION C
HORIZ 1:500
VERT 1:100
C100



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0	29.01.26	BWW	BJW	BJW	ISSUED FOR CONSTRUCTION
B	09.12.25	LV	BWW	BJW	FINAL SUBMISSION FOR APPROVAL
A	05.09.25	LV	BWW	BJW	INITIAL SUBMISSION FOR APPROVAL
REV	DATE	DRAWN	CHECKED	APPROVED	

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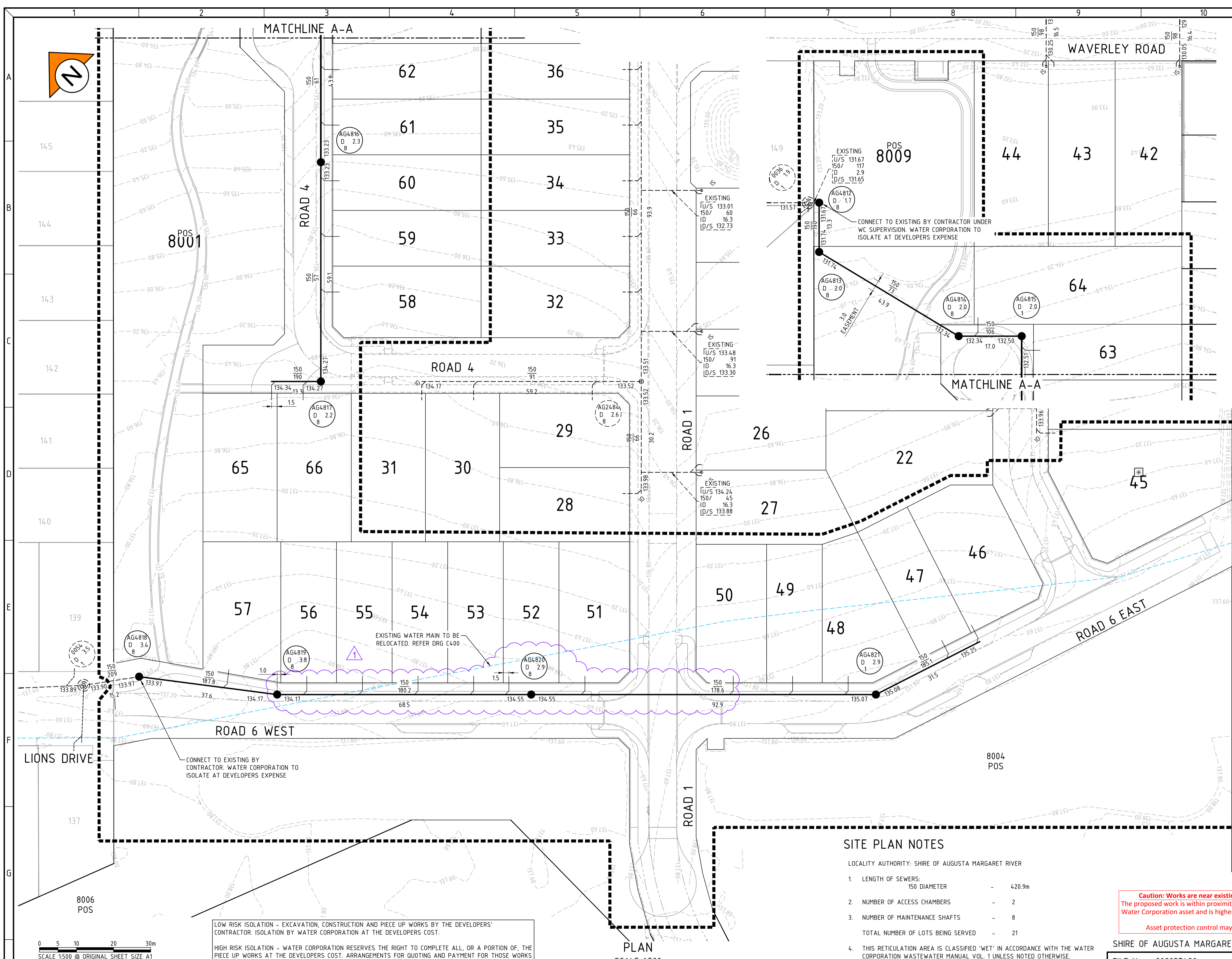


CLIENT: **Birdwood**
COWARAMUP - MASTERPLANNED COMMUNITY

PROJECT: **LOT 500 WIRING ROAD COWARAMUP STAGE 01B**

DRAWING TITLE: **EARTHWORKS SECTIONS**

DRAWN L.VU	WAPC No. 200656
DESIGNED L.VU	SCALE @ A1 AS SHOWN
PROJECT MANAGER B.WASHFOLD	DATUM AHD71
JDSi PROJECT No. JDS242318.01B	CO-ORDS MRCG94
DRAWING No. C105	REVISION 0



- ### NOTES
- ALL SEWERAGE RETICULATION WORKS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE WATER CORPORATION'S DESIGN STANDARD D550 (DSS0), THE CONTRACT, THE SPECIFICATIONS AND THE CURRENT WATER CORPORATION STANDARD DRAWINGS
 - CONSTRUCTION OF SEWERS IN LOTS WITH FILL SHALL NOT PROCEED UNTIL FILL IS PLACED AND COMPACTED IN ACCORDANCE WITH THE SPECIFICATION
 - THE CONTRACTOR SHALL DETERMINE AND BE RESPONSIBLE FOR THE BEDDING CONDITIONS TO COMPLY WITH THE REQUIREMENTS OF D550
 - DX = DUPLEX (REQUIRES TWO BOUNDARY CONNECTIONS) GH = GROUP HOUSING (REQUIRES 150 CONNECTION)
 - CENTRES OF ALL ACCESS CHAMBERS TO BE 3.2m FROM FRONT BOUNDARIES AND 1.0m FROM SIDE AND REAR BOUNDARIES OF LOT UNLESS OTHERWISE DIMENSIONED
 - PROPERTY CONNECTIONS ARE SHOWN INDICATIVELY. CONTRACTOR TO CONSTRUCT IN ACCORDANCE WITH D550 - TAKING INTO CONSIDERATION LOCATION OF OTHER SERVICES, INCLUDING POWER PILLARS
 - CONTRACTOR TO CONFIRM EXISTING SEWER INVERTS AT CONNECTION POINTS PRIOR TO COMMENCEMENT. LEVELS SHOWN MAY NOT BE AS-CONSTRUCTED. NOTIFY SUPERINTENDENT WHERE DISCREPANCIES EXIST
 - EXISTING SERVICES - INFORMATION ON THESE DRAWINGS PURPORTING TO RELATE TO EXISTING SERVICES IS INDICATIVE ONLY AND MAY NOT BE COMPLETE
 - THE CONTRACTOR SHALL NOTE THAT NON-TrafficABLE SUBTERRANEAN STRUCTURES AND/OR VOIDS (SOAKWELLS, ETC) MAY EXIST ON THE SITE AND SHALL TAKE ADEQUATE MEASURES TO LOCATE THESE PRIOR TO COMMENCING WORKS AND SHALL ADOPT SAFE WORK PRACTICES THAT OBVIATE ANY RISK THAT SUCH STRUCTURES MAY PRESENT
 - THE SUPERINTENDENT HAS NOT INVESTIGATED THE SITE AND MAKES NO REPRESENTATION AS TO WHAT MAY EXIST ON OR BELOW THE SITE. THE CONTRACTOR SHALL MAKE THEIR OWN INVESTIGATIONS AS TO THE NATURE OF THE SUBSURFACE CONDITIONS OF THE SITE
 - ACCESS CHAMBER DEPTHS ARE SHOWN FOR WATER CORPORATION INFORMATION ONLY AND NOT TO BE USED FOR CONSTRUCTION
 - ALL LEVELS SHALL BE LOCATED FROM ESTABLISHED BENCHMARKS AS SUPPLIED BY THE SURVEYOR
 - CONTRACTOR SHALL PROVIDE SAFE AND DRY ACCESS FOR WATER CORPORATION

- ### LEGEND
- PIPE DIA-CLASS GRADE LENGTH(m) PROPOSED SEWERS WITH NOTATION
 - U/S 00.00 / D 0.0 / D/S 00.00 UPSTREAM INVERT LEVEL PIPE DIA / GRADE LENGTH DOWNSTREAM INVERT LEVEL
 - x0000 / D 0.00 / 1 D ACCESS CHAMBERS AS ABOVE WITH GATIC TYPE COVER CLASS OF COVER, ACCESS CHAMBER DEPTH ACCESS CHAMBER TYPE, D = DROP
 - x0000 / D 0.00 / 1 D EXISTING ACCESS CHAMBER ACCESS CHAMBER NUMBER
 - PROPOSED GRAVITY SEWER WITH ACCESS CHAMBER AND PROPERTY CONNECTION
 - EXISTING GRAVITY SEWER
 - FUTURE GRAVITY SEWER
 - DESIGN/EXISTING CONTOURS (0.20m INTERVAL)
 - PROPOSED/ EXISTING/ FUTURE RETAINING WALL
 - RETICULATION AREA BOUNDARY
 - LOTS SERVICED IN PREVIOUS STAGE AND RELEASED IN THIS STAGE
 - LOTS SERVICED IN THIS STAGE BUT RELEASED IN FUTURE STAGE
 - EXISTING WATER MAIN

WARNING
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SITE PLAN NOTES

- LOCALITY AUTHORITY: SHIRE OF AUGUSTA MARGARET RIVER
- LENGTH OF SEWERS: 150 DIAMETER - 420.9m
 - NUMBER OF ACCESS CHAMBERS - 2
 - NUMBER OF MAINTENANCE SHAFTS - 8
 - TOTAL NUMBER OF LOTS BEING SERVED - 21
- THIS RETICULATION AREA IS CLASSIFIED 'WET' IN ACCORDANCE WITH THE WATER CORPORATION WASTEWATER MANUAL VOL. 1 UNLESS NOTED OTHERWISE.

Caution: Works are near existing Assets
The proposed work is within proximity to an existing Water Corporation asset and is higher risk in nature.
Asset protection control may apply.

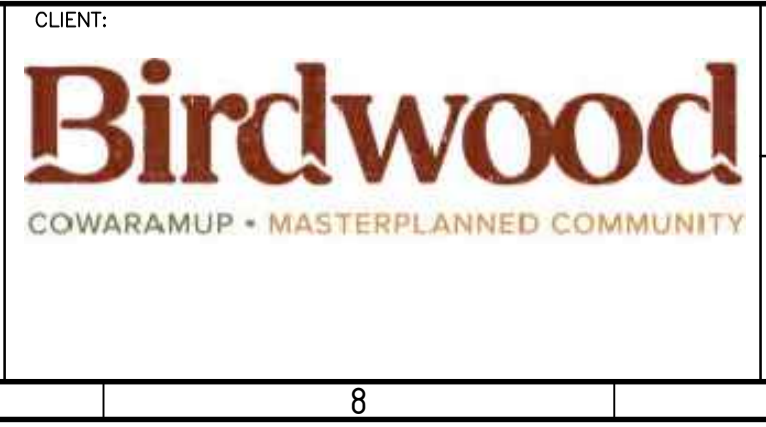
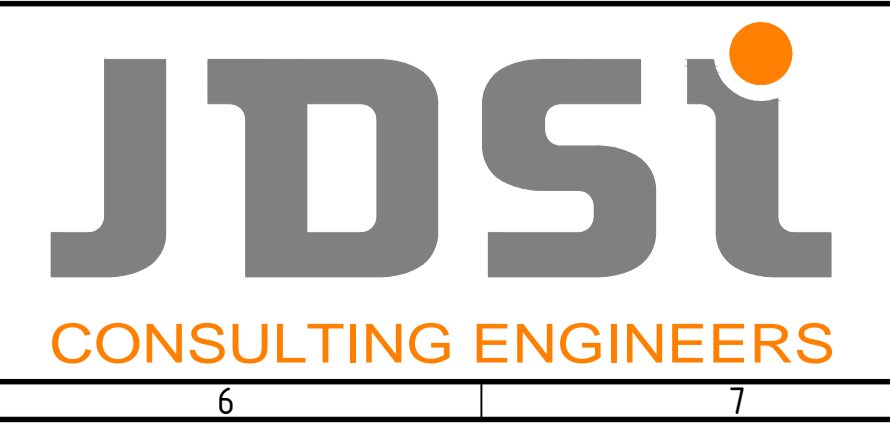
LOW RISK ISOLATION - EXCAVATION, CONSTRUCTION AND PIECE UP WORKS BY THE DEVELOPERS' CONTRACTOR. ISOLATION BY WATER CORPORATION AT THE DEVELOPERS' COST.
HIGH RISK ISOLATION - WATER CORPORATION RESERVES THE RIGHT TO COMPLETE ALL, OR A PORTION OF, THE PIECE UP WORKS AT THE DEVELOPERS' COST. ARRANGEMENTS FOR QUOTING AND PAYMENT FOR THOSE WORKS TO BE AGREED AT THE START-UP MEETING

THIS PLAN IS ACCEPTED AS BEING IN ACCORDANCE WITH THE ENDORSED CONCEPT PLAN:
0071-200-001-01A
COMPLIANCE WITH THE RELEVANT DESIGN STANDARDS AND MANUALS REMAINS THE RESPONSIBILITY OF THE DESIGN ENGINEER.
NO WORKS ARE TO COMMENCE ON SITE UNTIL START-UP MEETING REQUIREMENTS HAVE BEEN MADE WITH THE RELEVANT ASSET INSPECTOR. REFER TO THE DEVELOPERS' MANUAL FOR CONTACT DETAILS.

REV	DATE	DRAWN	CHECKED	APPROVED
1	12.02.26	AS	BWW	BJW
0	15.12.25	LV	BWW	BJW
B	05.11.25	LV	BWW	BJW
A	25.09.25	LV	BWW	BJW

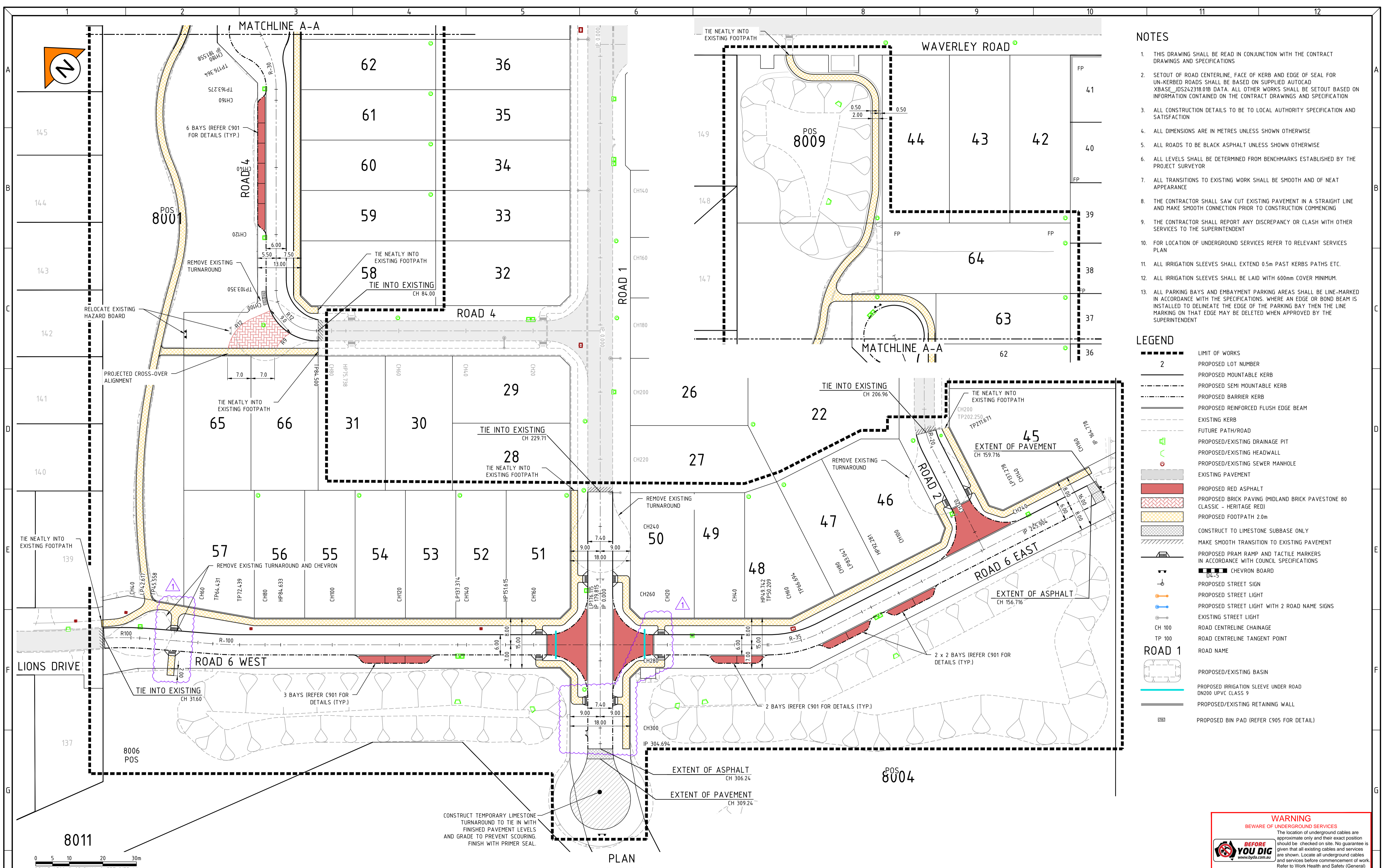
REV	DATE	DRAWN	CHECKED	APPROVED
1	12.02.26	AS	BWW	BJW
0	15.12.25	LV	BWW	BJW
B	05.11.25	LV	BWW	BJW
A	25.09.25	LV	BWW	BJW

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CLIENT:
LOT 500 WIRING ROAD COWARAMUP STAGE 01B
DRAWING TITLE:
SEWER RETICULATION PLAN

DRAWN LVU	WAPC No. 200656
DESIGNED LVU	SCALE @ A1 1:500
PROJECT MANAGER B.WASHFOLD	DATUM AHD71
JDSI PROJECT No. JDS242318.01B	CO-ORDS MRC694
DRAWING No. C201	REVISION 0



- ### NOTES
- THIS DRAWING SHALL BE READ IN CONJUNCTION WITH THE CONTRACT DRAWINGS AND SPECIFICATIONS
 - SETOUT OF ROAD CENTERLINE, FACE OF KERB AND EDGE OF SEAL FOR UN-KERBED ROADS SHALL BE BASED ON SUPPLIED AUTOCAD XBASE_JDS242318.01B DATA. ALL OTHER WORKS SHALL BE SETOUT BASED ON INFORMATION CONTAINED ON THE CONTRACT DRAWINGS AND SPECIFICATION
 - ALL CONSTRUCTION DETAILS TO BE TO LOCAL AUTHORITY SPECIFICATION AND SATISFACTION
 - ALL DIMENSIONS ARE IN METRES UNLESS SHOWN OTHERWISE
 - ALL ROADS TO BE BLACK ASPHALT UNLESS SHOWN OTHERWISE
 - ALL LEVELS SHALL BE DETERMINED FROM BENCHMARKS ESTABLISHED BY THE PROJECT SURVEYOR
 - ALL TRANSITIONS TO EXISTING WORK SHALL BE SMOOTH AND OF NEAT APPEARANCE
 - THE CONTRACTOR SHALL SAW CUT EXISTING PAVEMENT IN A STRAIGHT LINE AND MAKE SMOOTH CONNECTION PRIOR TO CONSTRUCTION COMMENCING
 - THE CONTRACTOR SHALL REPORT ANY DISCREPANCY OR CLASH WITH OTHER SERVICES TO THE SUPERINTENDENT
 - FOR LOCATION OF UNDERGROUND SERVICES REFER TO RELEVANT SERVICES PLAN
 - ALL IRRIGATION SLEEVES SHALL EXTEND 0.5m PAST KERBS PATHS ETC.
 - ALL IRRIGATION SLEEVES SHALL BE LAID WITH 600mm COVER MINIMUM.
 - ALL PARKING BAYS AND EMBAYMENT PARKING AREAS SHALL BE LINE-MARKED IN ACCORDANCE WITH THE SPECIFICATIONS. WHERE AN EDGE OR BOND BEAM IS INSTALLED TO DELINEATE THE EDGE OF THE PARKING BAY THEN THE LINE MARKING ON THAT EDGE MAY BE DELETED WHEN APPROVED BY THE SUPERINTENDENT

- ### LEGEND
- LIMIT OF WORKS
 - PROPOSED LOT NUMBER
 - PROPOSED MOUNTABLE KERB
 - PROPOSED SEMI MOUNTABLE KERB
 - PROPOSED BARRIER KERB
 - PROPOSED REINFORCED FLUSH EDGE BEAM
 - EXISTING KERB
 - FUTURE PATH/ROAD
 - PROPOSED/EXISTING DRAINAGE PIT
 - PROPOSED/EXISTING HEADWALL
 - PROPOSED/EXISTING SEWER MANHOLE
 - EXISTING PAVEMENT
 - PROPOSED RED ASPHALT
 - PROPOSED BRICK PAVING (MIDLAND BRICK PAVESTONE 80 CLASSIC - HERITAGE RED)
 - PROPOSED FOOTPATH 2.0m
 - CONSTRUCT TO LIMESTONE SUBBASE ONLY
 - MAKE SMOOTH TRANSITION TO EXISTING PAVEMENT
 - PROPOSED PRAM RAMP AND TACTILE MARKERS IN ACCORDANCE WITH COUNCIL SPECIFICATIONS
 - CHEVRON BOARD
 - PROPOSED STREET SIGN
 - PROPOSED STREET LIGHT
 - PROPOSED STREET LIGHT WITH 2 ROAD NAME SIGNS
 - EXISTING STREET LIGHT
 - ROAD CENTRELINE CHAINAGE
 - ROAD CENTRELINE TANGENT POINT
 - ROAD NAME
 - PROPOSED/EXISTING BASIN
 - PROPOSED IRRIGATION SLEEVE UNDER ROAD DN200 UPVC CLASS 9
 - PROPOSED/EXISTING RETAINING WALL
 - PROPOSED BIN PAD (REFER C905 FOR DETAIL)

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1	19.02.26	AS	BWW	BJW	PATHWAY AMENDMENTS
0	29.01.26	BWW	BJW	BJW	ISSUED FOR CONSTRUCTION
C	20.01.26	BWW	BJW	BJW	LOTS 65 AND 66 DUAL CROSS-OVER ADDED
B	09.12.25	LV	BWW	BJW	FINAL SUBMISSION FOR APPROVAL
A	05.09.25	LV	BWW	BJW	INITIAL SUBMISSION FOR APPROVAL
REV	DATE	DRAWN	CHECKED	APPROVED	

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Certified Quality System to ISO 9001

JDSi
CONSULTING ENGINEERS

Birdwood
COWARAMUP - MASTERPLANNED COMMUNITY

CLIENT:
PROJECT:
LOT 500 WIRRING ROAD
COWARAMUP STAGE 01B
DRAWING TITLE:
ROADS AND TREATMENT PLAN

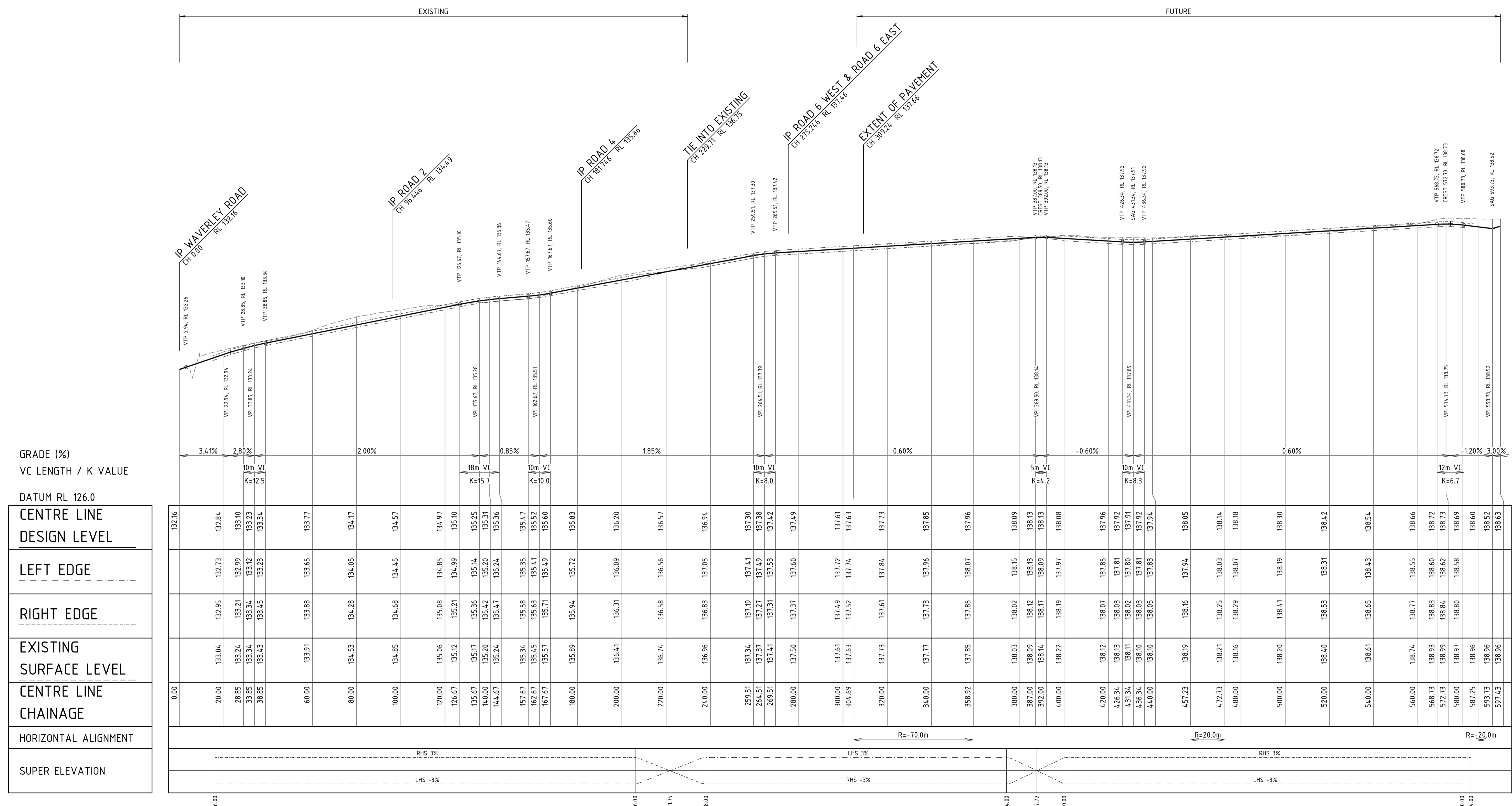
DRAWN L.VU	WAPC No. 200656
DESIGNED L.VU	SCALE A1 1:500
PROJECT MANAGER B. WASHFOLD	DATUM AHD71
JDSi PROJECT No. JDS242318.01B	CO-ORDS MRCG94
DRAWING No. C300	REVISION 1

NOTES

1. DRAWING SHALL BE READ IN CONJUNCTION WITH THE CONTRACT DRAWINGS AND SPECIFICATIONS.

LEGEND

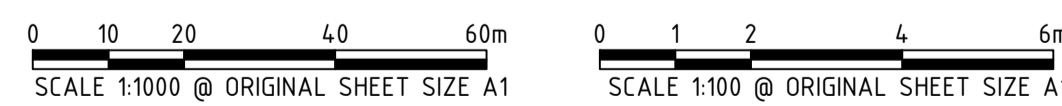
———— DESIGN SURFACE
 - - - - - EXISTING SURFACE



GRADE (%)
 VC LENGTH / K VALUE
 DATUM RL 126.0

CHAINAGE	CENTRE LINE DESIGN LEVEL	LEFT EDGE	RIGHT EDGE	EXISTING SURFACE LEVEL	CENTRE LINE CHAINAGE
0.00	132.16			133.04	0.00
20.00	132.84	132.73	132.95	133.04	20.00
28.85	133.10	133.21	133.21	133.24	28.85
33.85	133.32	133.34	133.34	133.34	33.85
38.85	133.34	133.45	133.45	133.43	38.85
60.00	133.77	133.65	133.88	133.91	60.00
80.00	134.17	134.05	134.28	134.53	80.00
100.00	134.57	134.45	134.68	134.85	100.00
120.00	134.97	134.85	135.08	135.06	120.00
126.67	135.10	135.21	135.21	135.12	126.67
135.67	135.25	135.14	135.36	135.17	135.67
140.00	135.31	135.20	135.42	135.20	140.00
144.67	135.36	135.47	135.47	135.24	144.67
157.67	135.47	135.35	135.58	135.34	157.67
162.67	135.45	135.63	135.45	135.63	162.67
167.67	135.51	135.71	135.51	135.57	167.67
180.00	135.83	135.72	135.94	135.89	180.00
200.00	136.20	136.09	136.31	136.41	200.00
220.00	136.57	136.56	136.58	136.74	220.00
240.00	136.94	137.05	136.83	136.96	240.00
259.51	137.30	137.41	137.19	137.34	259.51
264.51	137.38	137.49	137.27	137.37	264.51
269.51	137.42	137.53	137.31	137.41	269.51
280.00	137.49	137.60	137.37	137.50	280.00
300.00	137.61	137.72	137.49	137.61	300.00
304.69	137.63	137.52	137.52	137.63	304.69
320.00	137.73	137.84	137.61	137.73	320.00
340.00	137.85	137.96	137.73	137.77	340.00
358.92	137.96	138.07	137.85	137.85	358.92
380.00	138.09	138.15	138.02	138.03	380.00
387.00	138.13	138.13	138.12	138.09	387.00
392.00	138.13	138.09	138.14	138.17	392.00
400.00	138.08	137.97	138.19	138.22	400.00
420.00	137.96	137.85	138.07	138.12	420.00
426.34	137.92	137.81	138.03	138.11	426.34
431.34	137.91	137.80	138.02	138.11	431.34
436.34	137.81	137.81	138.03	138.10	436.34
440.00	137.83	137.83	138.05	138.10	440.00
457.23	138.05	137.94	138.16	138.19	457.23
472.73	138.14	138.03	138.25	138.21	472.73
480.00	138.18	138.07	138.29	138.16	480.00
500.00	138.30	138.19	138.41	138.20	500.00
520.00	138.42	138.31	138.53	138.40	520.00
540.00	138.54	138.43	138.65	138.61	540.00
560.00	138.66	138.55	138.77	138.74	560.00
568.73	138.72	138.60	138.83	138.93	568.73
572.73	138.73	138.62	138.84	138.99	572.73
580.00	138.69	138.58	138.80	138.97	580.00
587.25	138.60	138.56	138.96	138.96	587.25
593.73	138.52	138.52	138.96	138.96	593.73
597.43	138.63	138.63	138.96	138.96	597.43

LONGITUDINAL SECTION ROAD 1
 SCALE HORIZ 1: 1000
 VERT 1: 100



WARNING
 BEWARE OF UNDERGROUND SERVICES
 The location of underground cables are approximate only and their exact position should be checked on site. No guarantee is given that all existing cables and services are shown. Locate all underground cables and services before commencement of work. Refer to Work Health and Safety (General) Regulations 2022.

0	29.01.26	BWW	BJW	BJW	ISSUED FOR CONSTRUCTION
B	09.12.25	LV	BWW	BJW	FINAL SUBMISSION FOR APPROVAL
A	05.09.25	LV	BWW	BJW	INITIAL SUBMISSION FOR APPROVAL
REV	DATE	DRAWN	CHECKED	APPROVED	

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NOTE
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 Certified Quality System to ISO 9001

CLIENT:

PROJECT:
 LOT 500 WIRING ROAD
 COWARAMUP STAGE 01B
 DRAWING TITLE:
 ROAD LONGITUDINAL SECTIONS
 SHEET 1

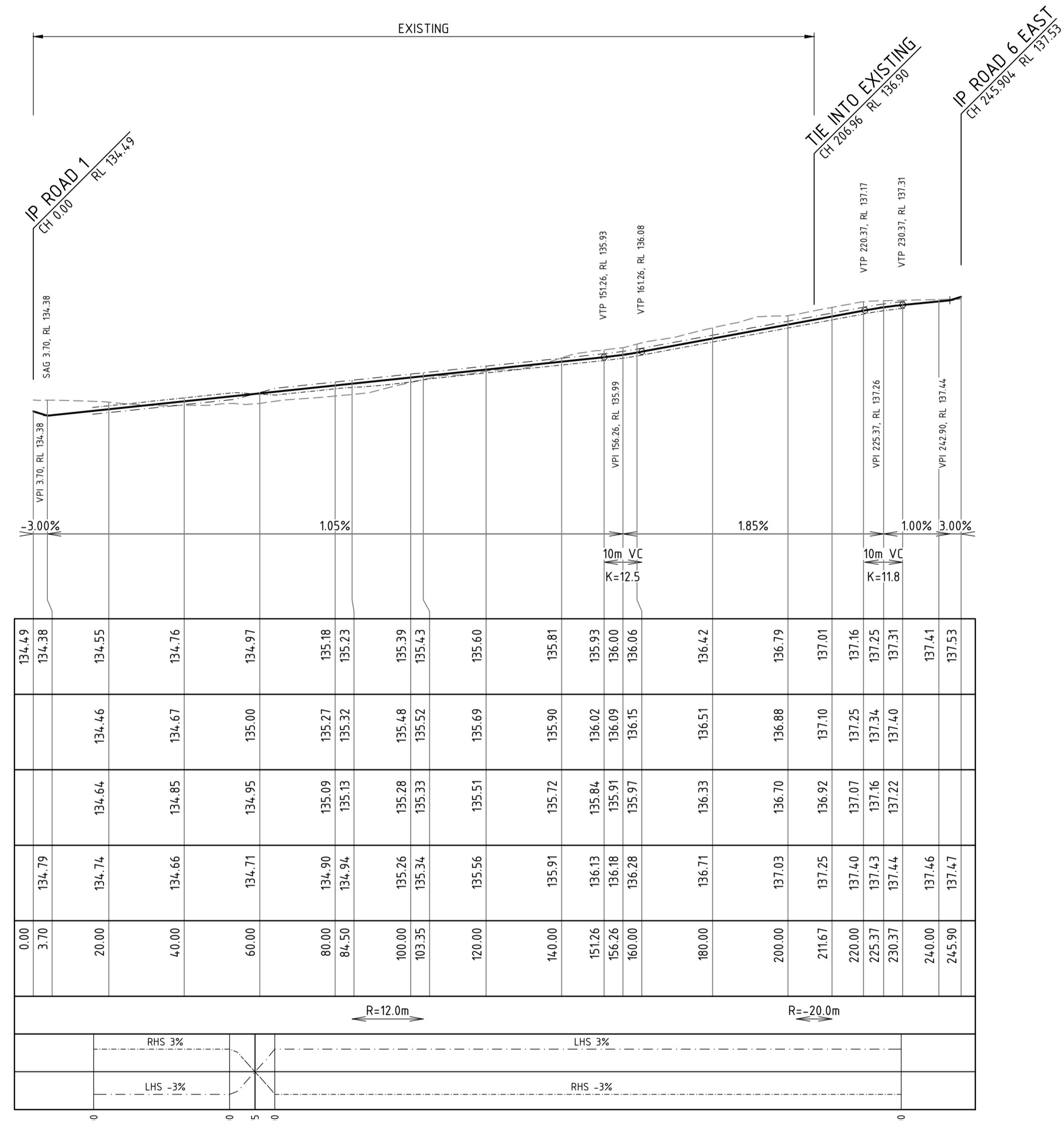
DRAWN L.V.U.	WAPC No. 200656
DESIGNED L.V.U.	SCALE H 1:1000 V 1:100
PROJECT MANAGER B. WASHFOLD	DATUM AHD71
JDSi PROJECT No. JDS242318.01B	CO-ORDS MRCG94
DRAWING No. C320	REVISION 0

NOTES

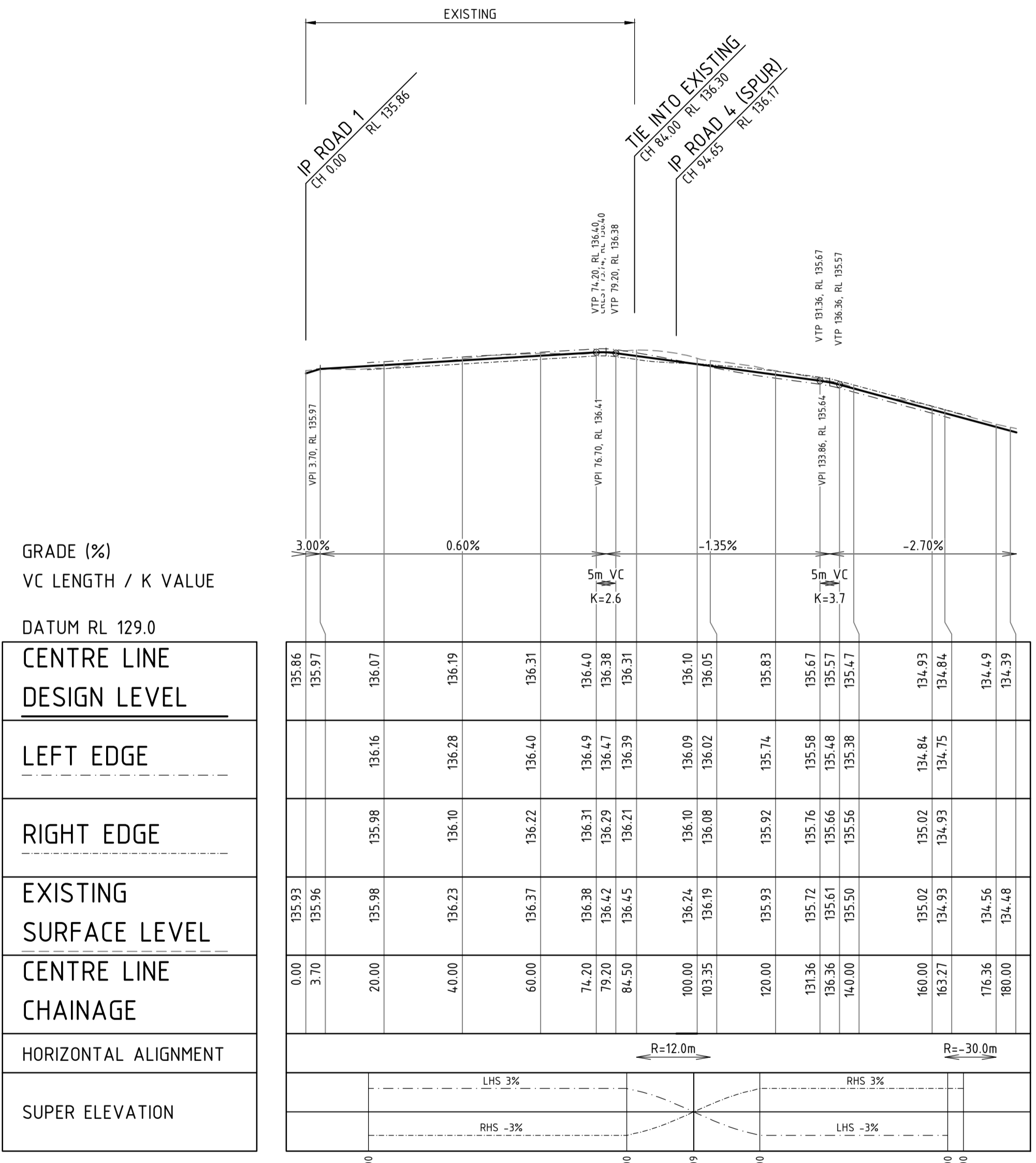
1. DRAWING SHALL BE READ IN CONJUNCTION WITH THE CONTRACT DRAWINGS AND SPECIFICATIONS.

LEGEND

—— DESIGN SURFACE
 - - - - EXISTING SURFACE



LONGITUDINAL SECTION ROAD 2
 SCALE HORIZ 1 : 1000
 VERT 1 : 100



LONGITUDINAL SECTION ROAD 4
 SCALE HORIZ 1 : 1000
 VERT 1 : 100

GRADE (%)
 VC LENGTH / K VALUE

DATUM RL 129.0

CENTRE LINE DESIGN LEVEL
134.49
134.38
134.55
134.76
134.97
135.18
135.23
135.39
135.43
135.60
135.81
135.93
136.00
136.06
136.42
136.79
137.01
137.16
137.25
137.34
137.31
137.41
137.53

LEFT EDGE
134.46
134.67
135.00
135.27
135.32
135.48
135.52
135.69
135.90
136.02
136.09
136.15
136.51
136.88
137.10
137.25
137.34
137.40
137.46
137.53

RIGHT EDGE
134.64
134.85
134.95
135.09
135.13
135.28
135.33
135.51
135.72
135.84
135.91
136.00
136.06
136.42
136.79
137.01
137.16
137.25
137.34
137.40
137.46
137.53

EXISTING SURFACE LEVEL
134.79
134.74
134.66
134.71
134.90
134.94
135.26
135.34
135.56
135.91
136.13
136.18
136.28
136.71
137.03
137.25
137.40
137.43
137.44
137.46
137.47

CENTRE LINE CHAINAGE
0.00
3.70
20.00
40.00
60.00
80.00
84.50
100.00
103.35
120.00
140.00
151.26
156.26
160.00
180.00
200.00
211.67
220.00
226.37
230.37
240.00
245.90

HORIZONTAL ALIGNMENT
R=12.0m
R=-20.0m

SUPER ELEVATION
RHS 3%
LHS -3%
RHS -3%

GRADE (%)
 VC LENGTH / K VALUE

DATUM RL 129.0

CENTRE LINE DESIGN LEVEL
135.86
135.97
136.07
136.19
136.31
136.40
136.49
136.47
136.38
136.21
136.10
136.05
135.83
135.67
135.57
135.47
134.93
134.84
134.49
134.39

LEFT EDGE
136.16
136.28
136.40
136.49
136.47
136.39
136.21
136.09
136.02
135.74
135.58
135.48
135.38
134.84
134.75
134.49
134.39

RIGHT EDGE
135.98
136.10
136.22
136.31
136.31
136.29
136.21
136.10
136.08
135.92
135.76
135.66
135.56
135.02
134.93
134.49
134.48

EXISTING SURFACE LEVEL
135.93
135.96
135.98
136.23
136.37
136.38
136.42
136.45
136.24
136.19
135.93
135.72
135.61
135.50
135.02
134.93
134.56
134.48

CENTRE LINE CHAINAGE
0.00
3.70
20.00
40.00
60.00
74.20
79.20
84.50
100.00
103.35
120.00
140.00
160.00
163.27
176.36
180.00

HORIZONTAL ALIGNMENT
R=12.0m
R=-30.0m

SUPER ELEVATION
LHS 3%
RHS -3%
LHS -3%

0 10 20 40 60m
 SCALE 1:1000 @ ORIGINAL SHEET SIZE A1

0 1 2 4 6m
 SCALE 1:100 @ ORIGINAL SHEET SIZE A1

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BEFORE YOU DIG
 www.byda.com.au

REV	DATE	DRAWN	CHECKED	APPROVED	DESCRIPTION
0	29.01.26	BWW	BJW	BJW	ISSUED FOR CONSTRUCTION
B	09.12.25	LV	BWW	BJW	FINAL SUBMISSION FOR APPROVAL
A	05.09.25	LV	BWW	BJW	INITIAL SUBMISSION FOR APPROVAL

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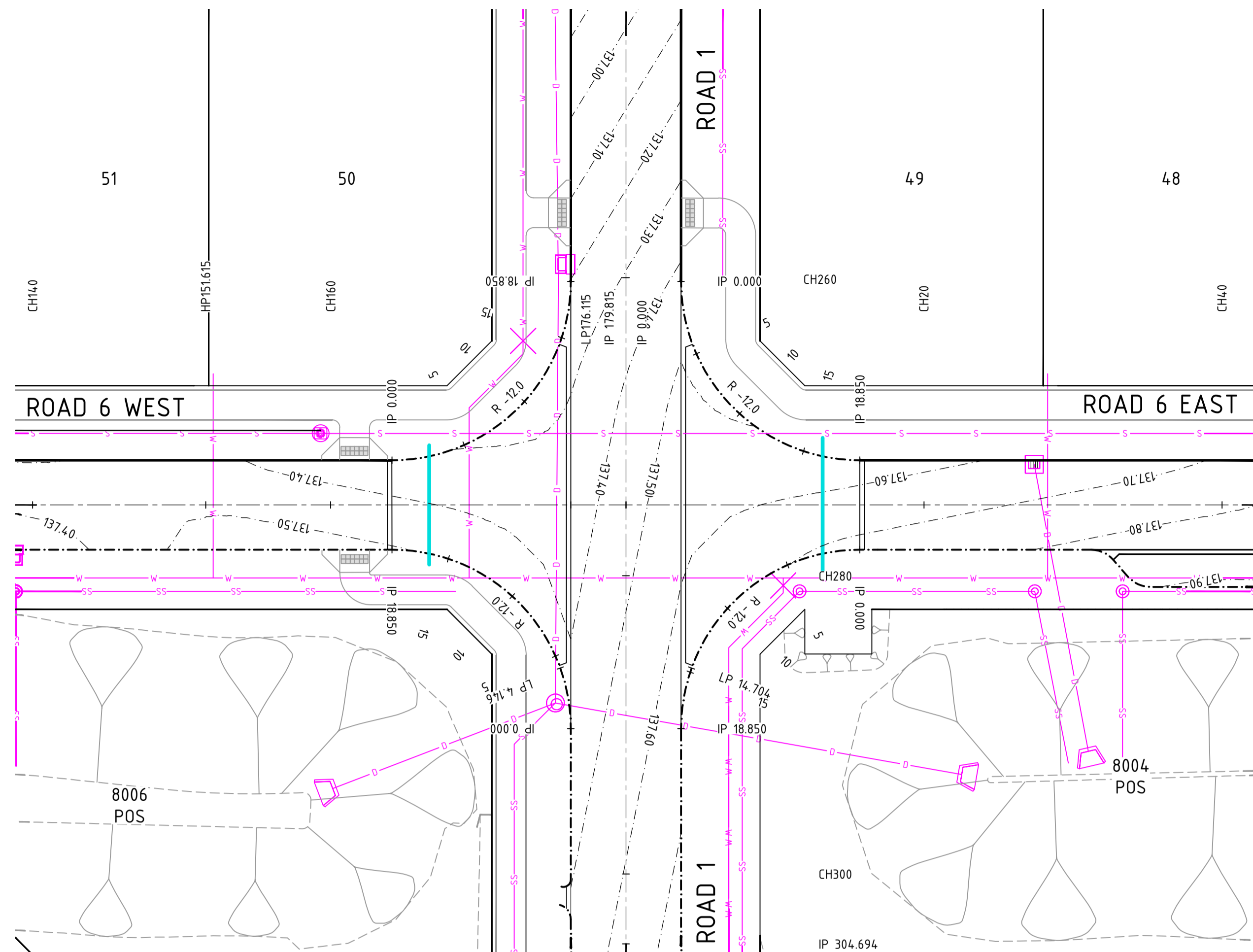
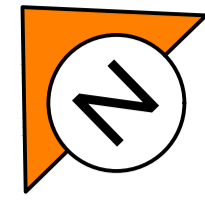
JDSi
 CONSULTING ENGINEERS

Birdwood
 COWARAMUP - MASTERPLANNED COMMUNITY

CLIENT:
 PROJECT:
 LOT 500 WIRING ROAD
 COWARAMUP STAGE 01B

DRAWING TITLE:
 ROAD LONGITUDINAL SECTIONS
 SHEET 2

DRAWN LVU	WAPC No. 200656
DESIGNED LVU	SCALE H 1:1000 V 1:100
PROJECT MANAGER B.WASHFOLD	DATUM AHD71
JDSi PROJECT No. JDS242318.01B	CO-ORDS MRCG94
DRAWING No. C321	REVISION 0



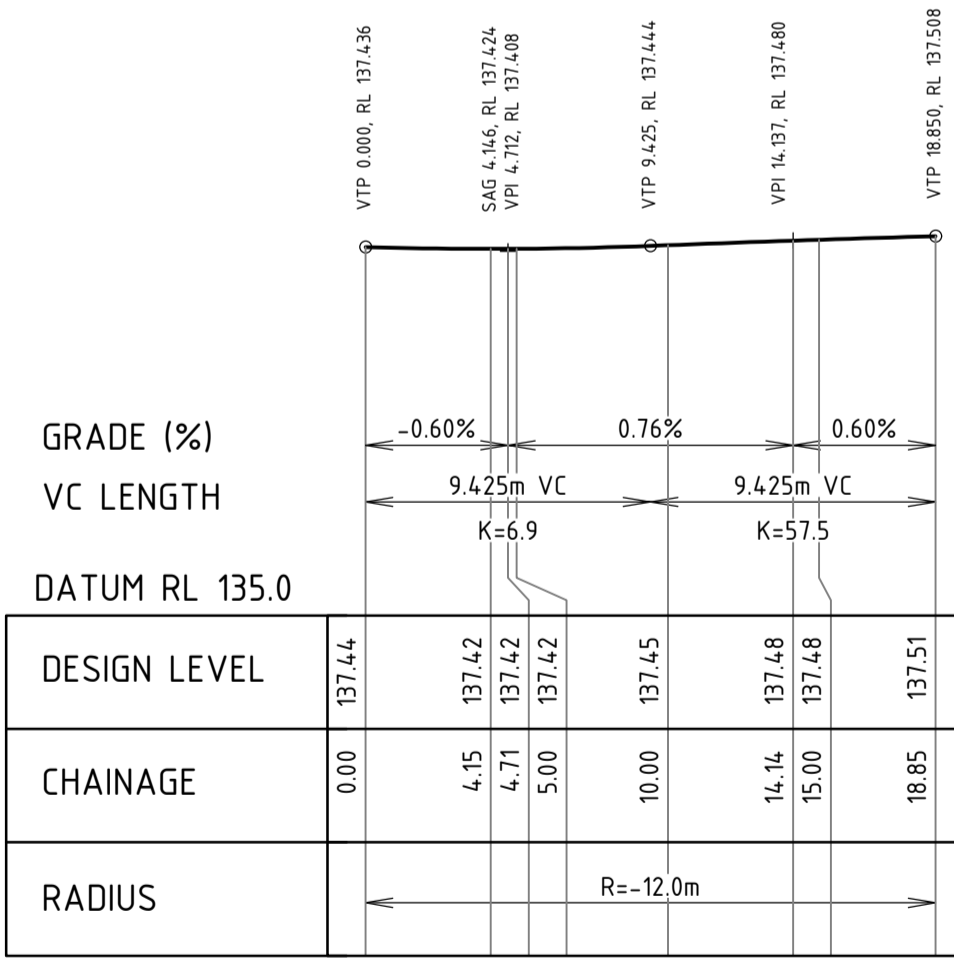
PLAN
SCALE 1:250

NOTES

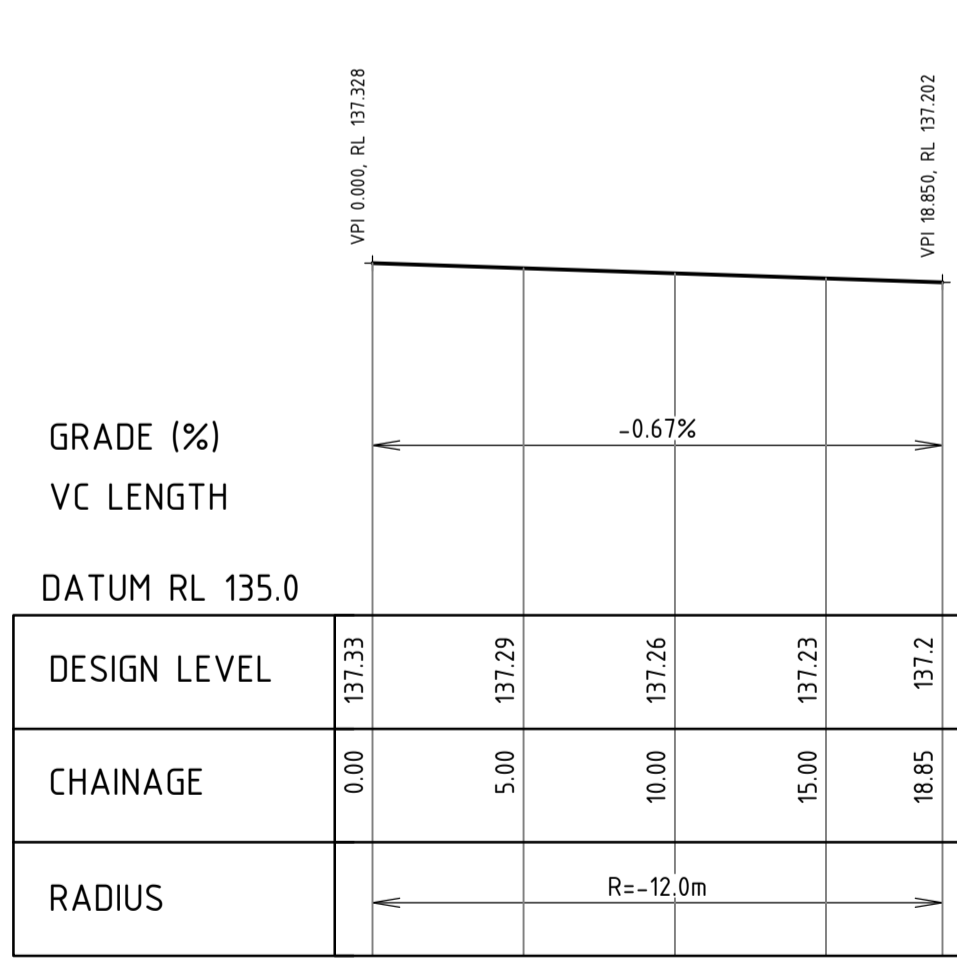
- THIS DRAWING SHALL BE READ IN CONJUNCTION WITH THE CONTRACT DRAWINGS AND SPECIFICATION
- SETOUT OF ROAD CENTERLINE, FACE OF KERB AND EDGE OF SEAL FOR UN-KERBED ROADS SHALL BE BASED ON SUPPLIED AUTOCAD DATA. ALL OTHER WORKS SHALL BE SETOUT BASED ON INFORMATION CONTAINED ON THE CONTRACT DRAWINGS AND SPECIFICATION
- ALL CONSTRUCTION DETAILS TO BE TO LOCAL AUTHORITY SPECIFICATION AND SATISFACTION
- ALL DIMENSIONS ARE IN METRES UNLESS SHOWN OTHERWISE
- ALL LEVELS SHALL BE DETERMINED FROM BENCHMARKS ESTABLISHED BY THE PROJECT SURVEYOR
- ALL TRANSITIONS TO EXISTING WORK SHALL BE SMOOTH AND OF NEAT APPEARANCE
- ALL TRENCHING, PIPE BEDDING AND BACKFILLING SHALL BE IN ACCORDANCE WITH AS3725
- THE CONTRACTOR SHALL REPORT ANY DISCREPANCY OR CLASH WITH OTHER SERVICES TO THE SUPERINTENDENT
- THE CONTRACTOR SHALL SAW CUT EXISTING PAVEMENT IN A STRAIGHT LINE AND MAKE SMOOTH CONNECTION

LEGEND

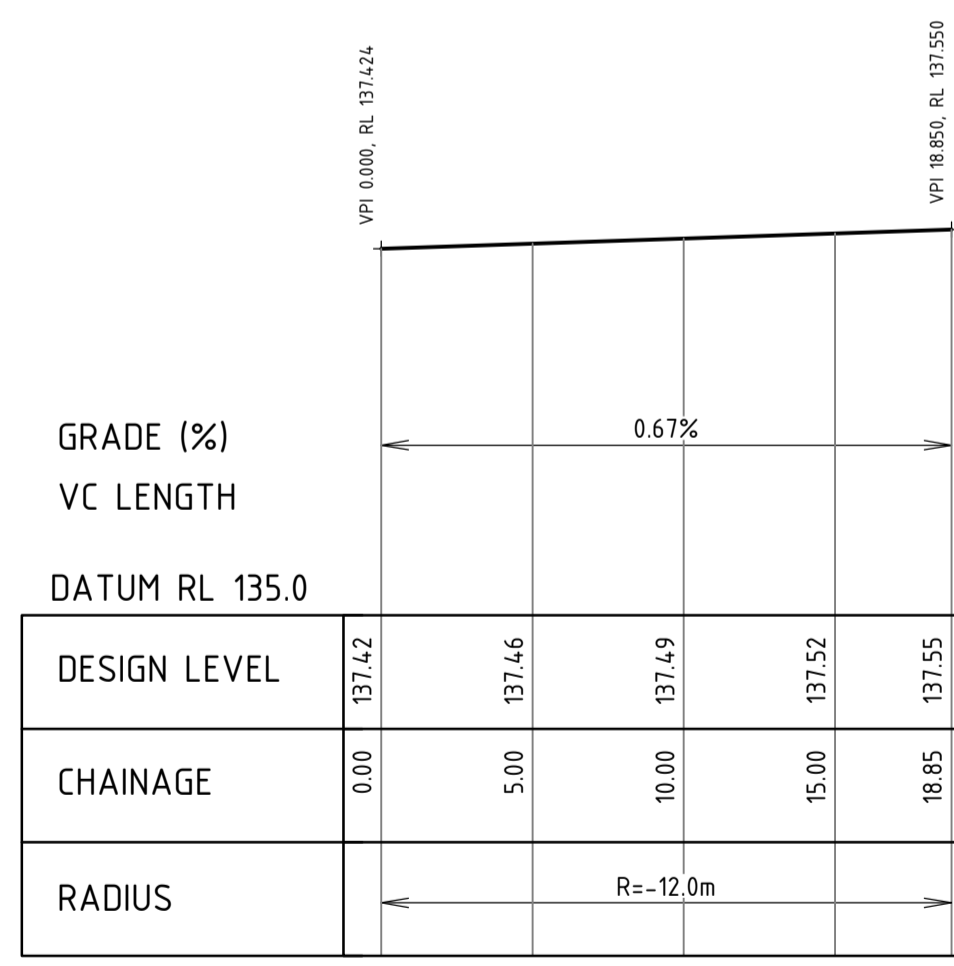
- 2 PROPOSED LOT NUMBER
- PROPOSED MOUNTABLE KERB
- - - - PROPOSED SEMI MOUNTABLE KERB
- PROPOSED BARRIER KERB
- PROPOSED REINFORCED FLUSH EDGE BEAM
- PROPOSED RETAINING WALL
- - - - EXISTING KERB
- FUTURE WORKS
- PROPOSED DRAINAGE & SEP
- PROPOSED DRAINAGE & CSEP
- PROPOSED DRAINAGE & JP
- PROPOSED DRAINAGE & GP OR CGP
- EXISTING DRAINAGE & PITS
- FUTURE DRAINAGE & PITS
- FUTURE SEWER
- FUTURE WATER
- PROPOSED/EXISTING SEWER
- PROPOSED/EXISTING SUBSOIL DRAINAGE
- PROPOSED/EXISTING GAS
- PROPOSED/EXISTING WATER
- DESIGN CONTOURS (0.1m INTERVAL)
- KERB RETURN CHAINAGE
- PROPOSED PRAM RAMP IN ACCORDANCE WITH COUNCIL SPECIFICATIONS TGS1 TO BE INSTALLED WHERE INDICATED
- PROPOSED STREET SIGN
- PROPOSED STREET LIGHT
- PROPOSED STREET LIGHT WITH 2 ROAD NAME SIGNS
- EXISTING STREET LIGHT
- ROAD 1 ROAD NAME
- MAKE SMOOTH TRANSITION TO EXISTING PAVEMENT
- PROPOSED IRRIGATION SLEEVE UNDER ROAD DN200 UPVC
- PROPOSED BATTER
- CHEVRON BOARD



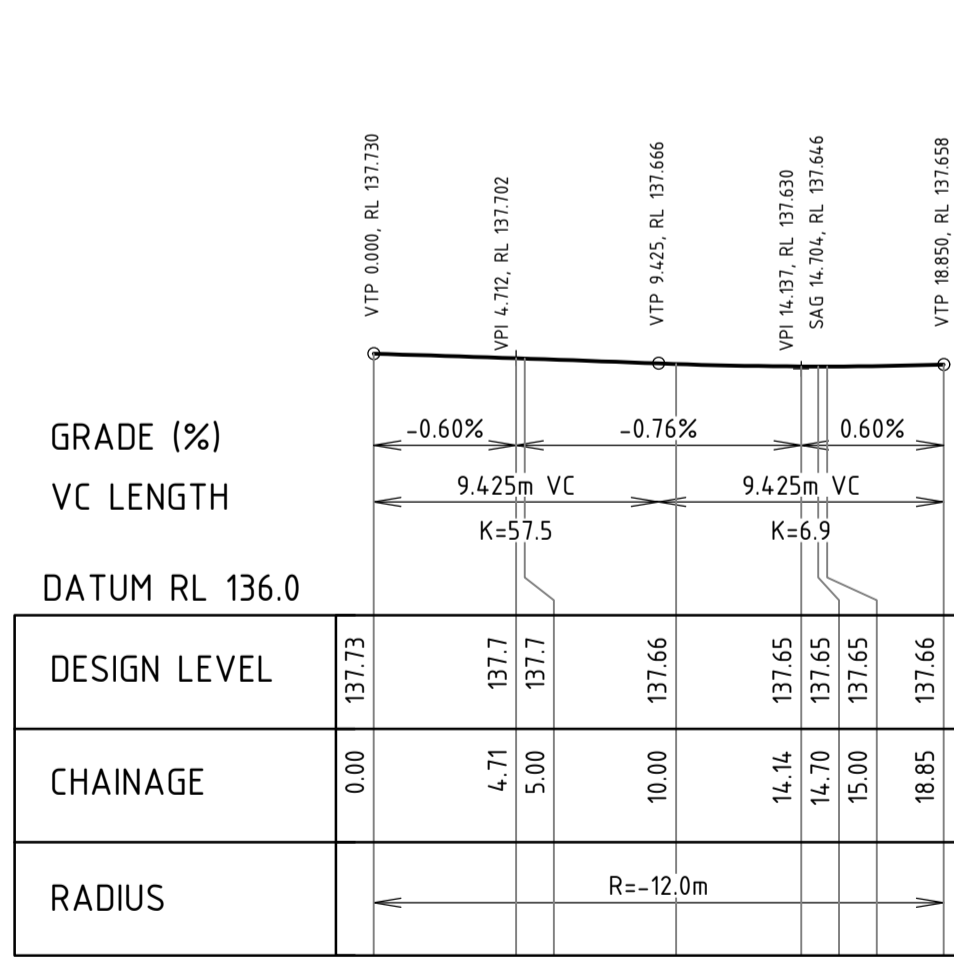
KERB RETURN LONGITUDINAL SECTION
ROAD 1 to ROAD 6 WEST
SCALE HORIZ 1 : 250
VERT 1 : 50



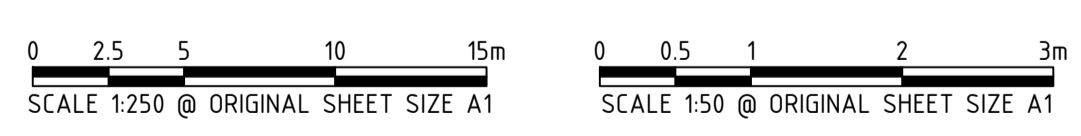
KERB RETURN LONGITUDINAL SECTION
ROAD 6 WEST to ROAD 1
SCALE HORIZ 1 : 250
VERT 1 : 50



KERB RETURN LONGITUDINAL SECTION
ROAD 1 to ROAD 6 EAST
SCALE HORIZ 1 : 250
VERT 1 : 50



KERB RETURN LONGITUDINAL SECTION
ROAD 6 EAST to ROAD 1
SCALE HORIZ 1 : 250
VERT 1 : 50



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REV	DATE	DRAWN	CHECKED	APPROVED	DESCRIPTION
0	29.01.26	BWW	BJW	BJW	ISSUED FOR CONSTRUCTION
B	09.12.25	LV	BWW	BJW	FINAL SUBMISSION FOR APPROVAL
A	05.09.25	LV	BWW	BJW	INITIAL SUBMISSION FOR APPROVAL

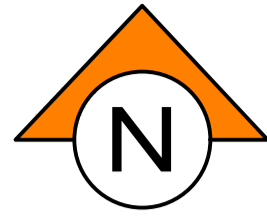
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NOTE
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Certified Quality System to ISO 9001

CLIENT:
PROJECT:
LOT 500 WIRING ROAD
COWARAMUP STAGE 01B

DRAWING TITLE:
ROAD INTERSECTION DETAILS
SHEET 1

DRAWN L.VU	WAPC No. 200656
DESIGNED L.VU	SCALE @ A1 AS SHOWN
PROJECT MANAGER B.WASHFOLD	DATUM AHD71
JDSI PROJECT No. JDS242318.01B	CO-ORDS MRCG94
DRAWING No. C330	REVISION 0

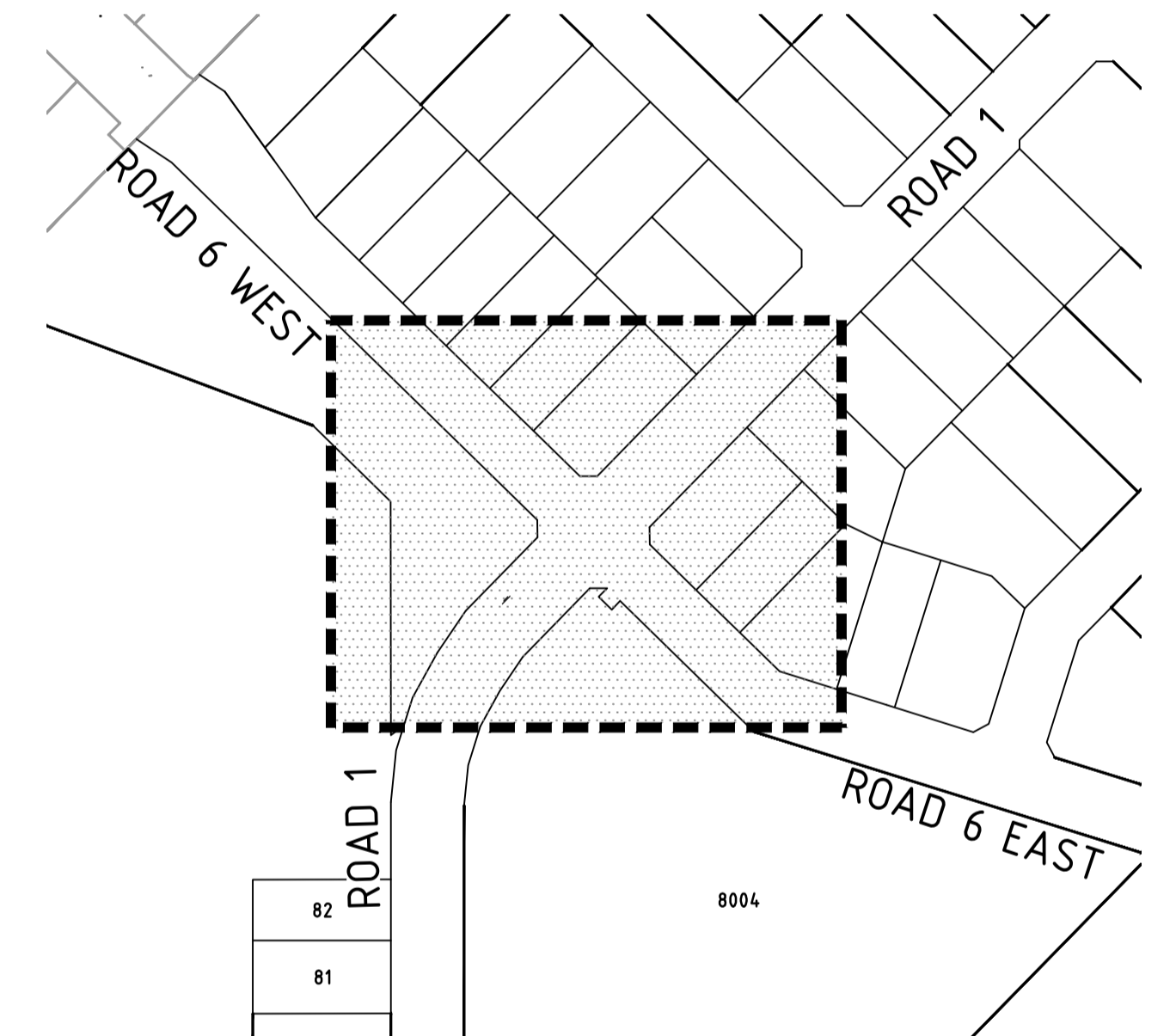
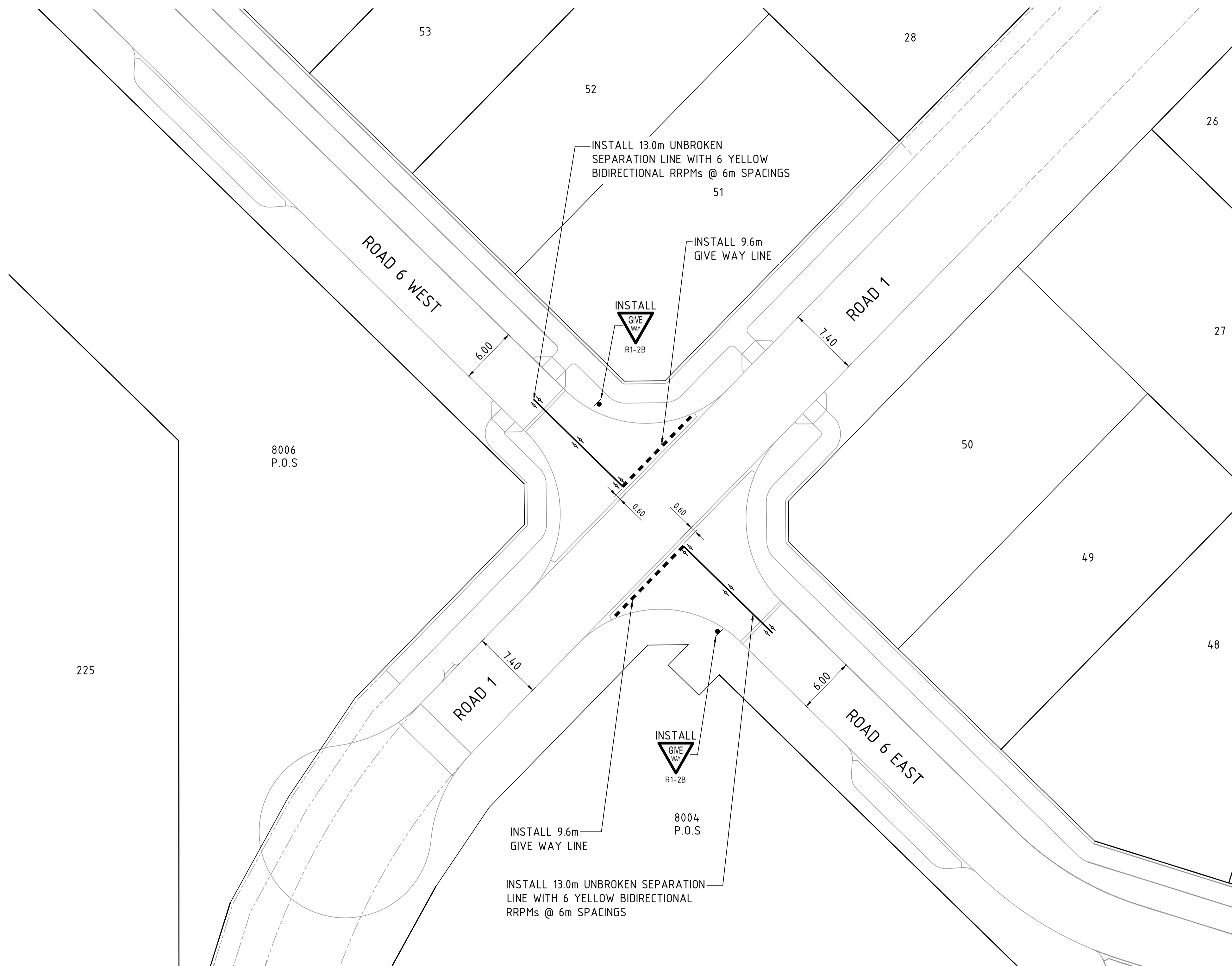


NOTES

1. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH THE CONTRACT DRAWINGS AND SPECIFICATION
2. ALL DIMENSIONS ARE IN METRES UNLESS SHOWN OTHERWISE
3. FOR PAVEMENT MARKING LINE TYPES REFER TO MRWA STANDARD DRG 9931-0198
4. FOR DIAGONAL MARKING DETAILS REFER TO MRWA STANDARD DRG 200331-091
5. FOR RAISED RETRO-REFLECTIVE PAVEMENT MARKER LOCATIONS REFER TO MRWA STANDARD DRG 9120-158
6. ALL LINEMARKING AND SIGNS TO BE INSTALLED AS PER MRWA SPECIFICATIONS AND BY MRWA APPROVED CONTRACTORS.
7. CONTRACTOR TO PROVIDE:
 - 7.1. PVC SLEEVES (150mm) WHERE SIGNS ARE LOCATED WITHIN PAVED AREAS
 - 7.2. SPOTTING TO MRWA GUIDELINES AT THE PROPOSED POSITIONS OF PAVEMENT MARKINGS

LEGEND

- PROPOSED LINEMARKING
- PROPOSED EDGE OR ROAD
- EXISTING EDGE OF ROAD
- YELLOW BIDIRECTIONAL RAISED PAVEMENT MARKER
- PROPOSED SIGN POST



LOCALITY PLAN
NTS

PLAN
SCALE 1:250



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0	29.01.26	BWW	BJW	BJW	ISSUED FOR CONSTRUCTION
A	05.09.25	LV	BWW	BJW	INITIAL SUBMISSION FOR APPROVAL
REV	DATE	DRAWN	CHECKED	APPROVED	

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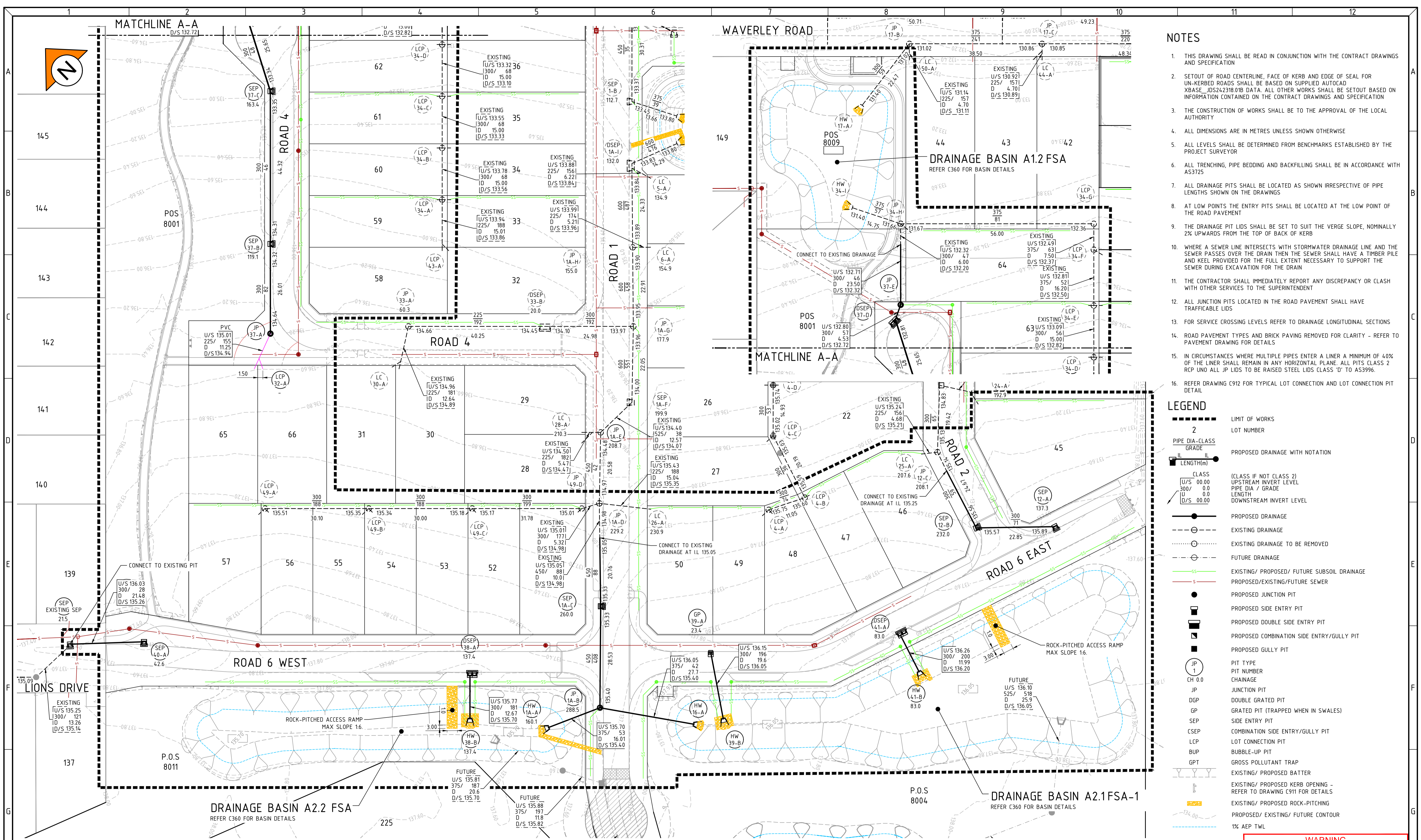
Birdwood
COWARAMUP - MASTERPLANNED COMMUNITY

CLIENT:
Birdwood

PROJECT:
LOT 500 WIRING ROAD
COWARAMUP STAGE 01B

DRAWING TITLE:
SIGNS AND LINE MARKING PLAN

DRAWN L.VU	WAPC No. 200656
DESIGNED L.VU	SCALE @ A1 1:250
PROJECT MANAGER B.WASHFOLD	DATUM AHD71
JDSI PROJECT No. JDS242318.01B	CO-ORDS MRCG94
DRAWING No. C340	REVISION 0



- ### NOTES
- THIS DRAWING SHALL BE READ IN CONJUNCTION WITH THE CONTRACT DRAWINGS AND SPECIFICATION
 - SETOUT OF ROAD CENTERLINE, FACE OF KERB AND EDGE OF SEAL FOR UN-KERBED ROADS SHALL BE BASED ON SUPPLIED AUTOCAD XBASE_JDS242318.01B DATA. ALL OTHER WORKS SHALL BE SETOUT BASED ON INFORMATION CONTAINED ON THE CONTRACT DRAWINGS AND SPECIFICATION
 - THE CONSTRUCTION OF WORKS SHALL BE TO THE APPROVAL OF THE LOCAL AUTHORITY
 - ALL DIMENSIONS ARE IN METRES UNLESS SHOWN OTHERWISE
 - ALL LEVELS SHALL BE DETERMINED FROM BENCHMARKS ESTABLISHED BY THE PROJECT SURVEYOR
 - ALL TRENCHING, PIPE BEDDING AND BACKFILLING SHALL BE IN ACCORDANCE WITH AS3725
 - ALL DRAINAGE PITS SHALL BE LOCATED AS SHOWN IRRESPECTIVE OF PIPE LENGTHS SHOWN ON THE DRAWINGS
 - AT LOW POINTS THE ENTRY PITS SHALL BE LOCATED AT THE LOW POINT OF THE ROAD PAVEMENT
 - THE DRAINAGE PIT LIDS SHALL BE SET TO SUIT THE VERGE SLOPE, NOMINALLY 2% UPWARDS FROM THE TOP OF BACK OF KERB
 - WHERE A SEWER LINE INTERSECTS WITH STORMWATER DRAINAGE LINE AND THE SEWER PASSES OVER THE DRAIN THEN THE SEWER SHALL HAVE A TIMBER PILE AND KEEL PROVIDED FOR THE FULL EXTENT NECESSARY TO SUPPORT THE SEWER DURING EXCAVATION FOR THE DRAIN
 - THE CONTRACTOR SHALL IMMEDIATELY REPORT ANY DISCREPANCY OR CLASH WITH OTHER SERVICES TO THE SUPERINTENDENT
 - ALL JUNCTION PITS LOCATED IN THE ROAD PAVEMENT SHALL HAVE TRAFFICABLE LIDS
 - FOR SERVICE CROSSING LEVELS REFER TO DRAINAGE LONGITUDINAL SECTIONS
 - ROAD PAVEMENT TYPES AND BRICK PAVING REMOVED FOR CLARITY - REFER TO PAVEMENT DRAWING FOR DETAILS
 - IN CIRCUMSTANCES WHERE MULTIPLE PIPES ENTER A LINER A MINIMUM OF 40% OF THE LINER SHALL REMAIN IN ANY HORIZONTAL PLANE. ALL PITS CLASS 2 RCP UND ALL JP LIDS TO BE RAISED STEEL LIDS CLASS 'D' TO AS3996.
 - REFER DRAWING C912 FOR TYPICAL LOT CONNECTION AND LOT CONNECTION PIT DETAIL

- ### LEGEND
- LIMIT OF WORKS
 - LOT NUMBER
 - PIPE DIA-CLASS GRADE
 - PROPOSED DRAINAGE WITH NOTATION
 - LENGTH (m)
 - CLASS (CLASS IF NOT CLASS 2)
UPSTREAM INVERT LEVEL
PIPE DIA / GRADE
LENGTH
DOWNSTREAM INVERT LEVEL
 - PROPOSED DRAINAGE
 - EXISTING DRAINAGE
 - EXISTING DRAINAGE TO BE REMOVED
 - FUTURE DRAINAGE
 - EXISTING/ PROPOSED/ FUTURE SUBSOIL DRAINAGE
 - PROPOSED/EXISTING/FUTURE SEWER
 - PROPOSED JUNCTION PIT
 - PROPOSED SIDE ENTRY PIT
 - PROPOSED DOUBLE SIDE ENTRY PIT
 - PROPOSED COMBINATION SIDE ENTRY/GULLY PIT
 - PROPOSED GULLY PIT
 - PIT TYPE
 - PIT NUMBER
 - CHAINAGE
 - JUNCTION PIT
 - DOUBLE GRATED PIT
 - GRATED PIT (TRAPPED WHEN IN SWALES)
 - SIDE ENTRY PIT
 - COMBINATION SIDE ENTRY/GULLY PIT
 - LOT CONNECTION PIT
 - BUBBLE-UP PIT
 - GROSS POLLUTANT TRAP
 - EXISTING/ PROPOSED BATTER
 - EXISTING/ PROPOSED KERB OPENING - REFER TO DRAWING C911 FOR DETAILS
 - EXISTING/ PROPOSED ROCK-PITCHING
 - EXISTING/ EXISTING/ FUTURE CONTOUR
 - 1% AEP TWL

WARNING
BEWARE OF UNDERGROUND SERVICES
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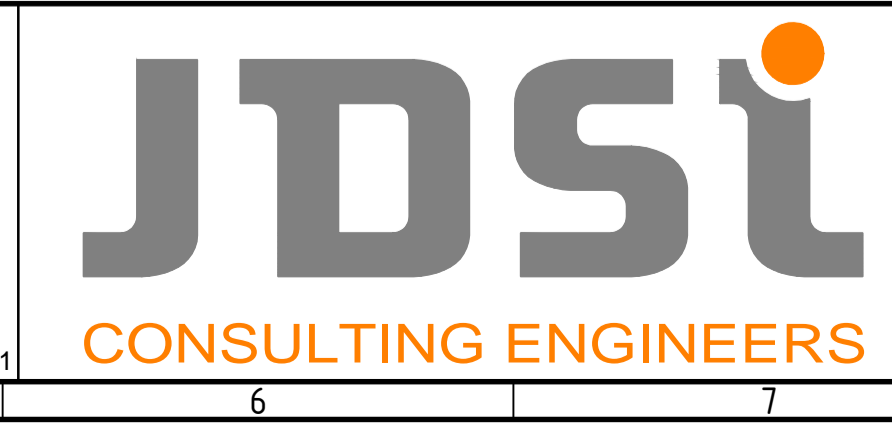
PLAN
SCALE 1:500



0	29.01.26	BWW	BJW	BJW	ISSUED FOR CONSTRUCTION
B	09.12.25	LV	BWW	BJW	FINAL SUBMISSION FOR APPROVAL
A	05.09.25	LV	BWW	BJW	INITIAL SUBMISSION FOR APPROVAL
REV	DATE	DRAWN	CHECKED	APPROVED	

Plotted By: BWhitfield Plot Date: 29/01/26 - 06:30 Cad File: E:\2d\data\JDSI-12DSYN\JDS242318_24\JDS242318.01B\CIVIL\Drawings\JDS242318.01B_C350.dwg					
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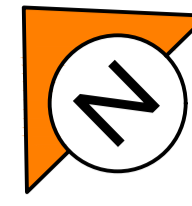
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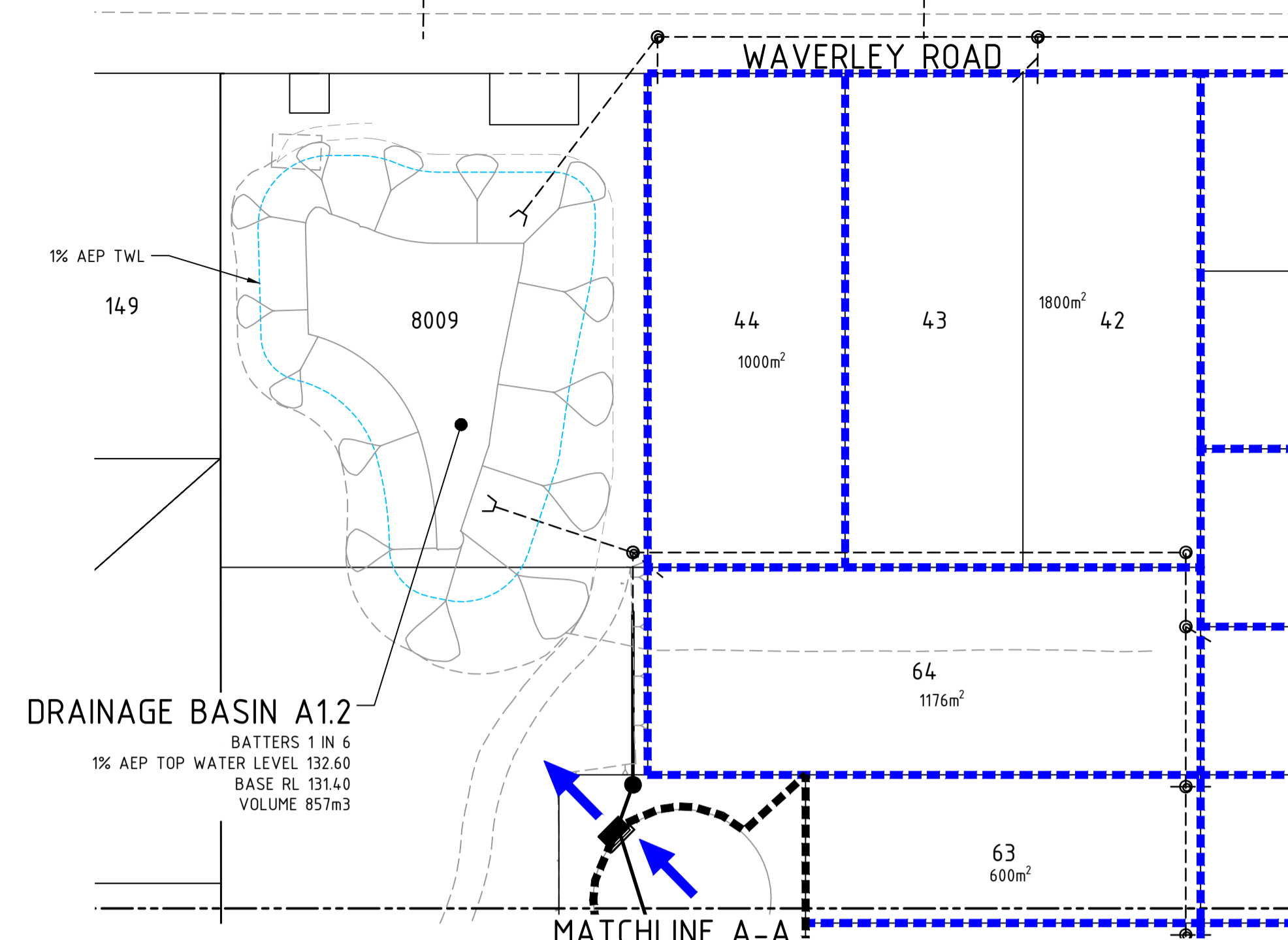
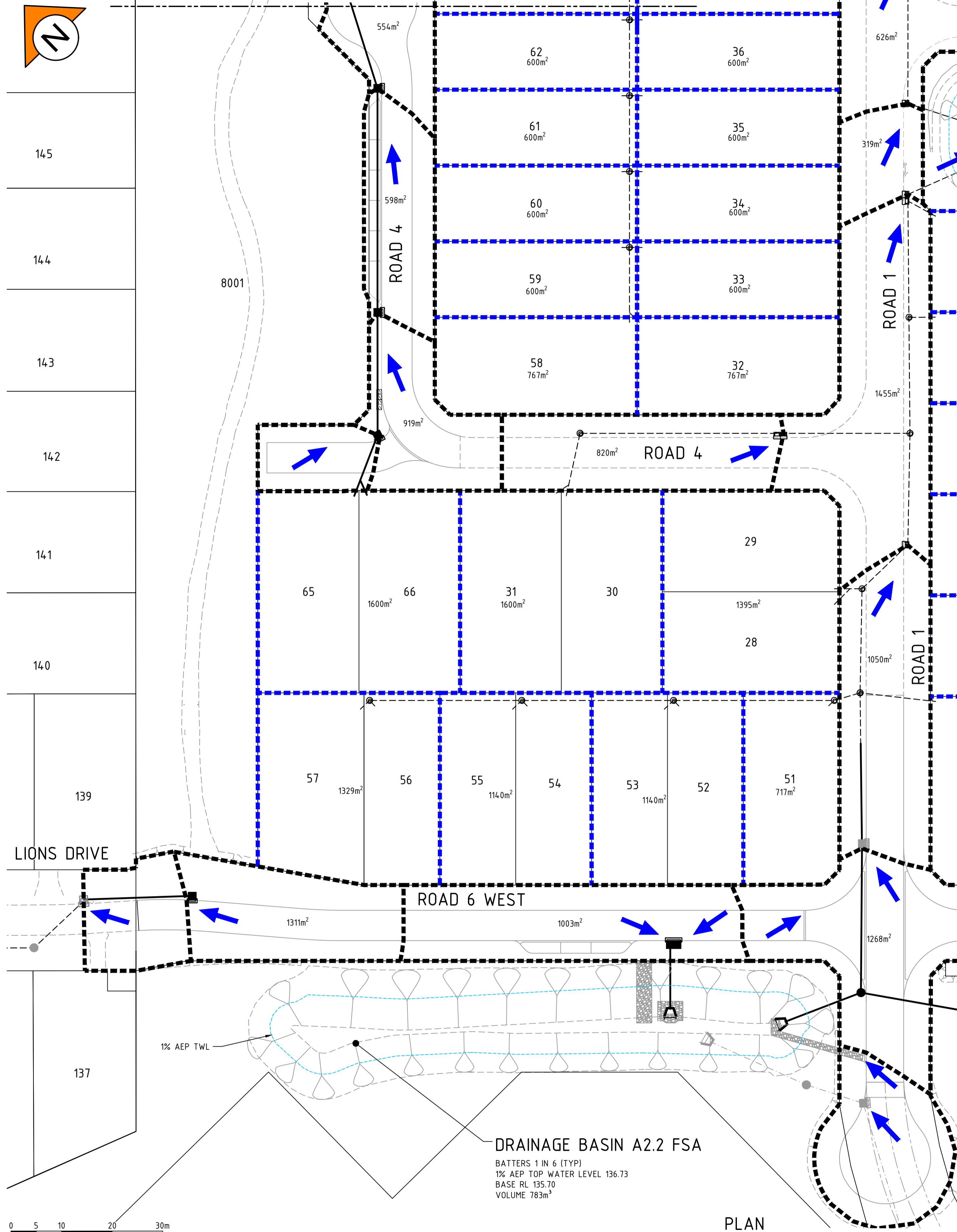
CLIENT:
**LOT 500 WIRING ROAD
COWARAMUP STAGE 01B**

DRAWING TITLE:
DRAINAGE PLAN

DRAWN LVU	WAPC No. 200656
DESIGNED LVU	SCALE AS SHOWN
PROJECT MANAGER B.WASHFOLD	DATUM AHD71
JDSI PROJECT No. JDS242318.01B	CO-ORDS MRCG94
DRAWING No. C350	REVISION 0



MATCHLINE A-A



NOTES

1. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH THE CONTRACT DRAWINGS AND SPECIFICATION.
2. FOR DETAILED LAYOUT REFER TO DRAWING C350 OF THIS SET.

LEGEND

- 2 LOT NUMBER
- PROPOSED STORMWATER DRAINAGE
- EXISTING STORMWATER DRAINAGE
- FUTURE STORMWATER DRAINAGE
- CATCHMENT AREA (m²)
- 360m²
- LOT CATCHMENT
- ROAD RESERVE CATCHMENT
- DIRECTION OF 100 YEAR A.R.I. STORM FLOW PATH

DRAINAGE BASIN A2.2 FSA
 BATTERS 1 IN 6 (TYP)
 1% AEP TOP WATER LEVEL 136.73
 BASE RL 135.70
 VOLUME 783m³

DRAINAGE BASIN A2.1 FSA-1
 BATTERS 1 IN 6 (TYP)
 1% AEP TOP WATER LEVEL 137.22
 BASE RL 136.05
 VOLUME 2,784m³

PLAN SCALE 1:500

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REV	DATE	DRAWN	CHECKED	APPROVED	
B	09.12.25	LV	BWW	BJW	FINAL SUBMISSION FOR APPROVAL
A	05.09.25	LV	BWW	BJW	INITIAL SUBMISSION FOR APPROVAL

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 Certified Quality System to ISO 9001

CLIENT:

PROJECT:
 LOT 500 WIRING ROAD
 COWARAMUP STAGE 01B

DRAWING TITLE:
 DRAINAGE CATCHMENT AND BASIN PLAN

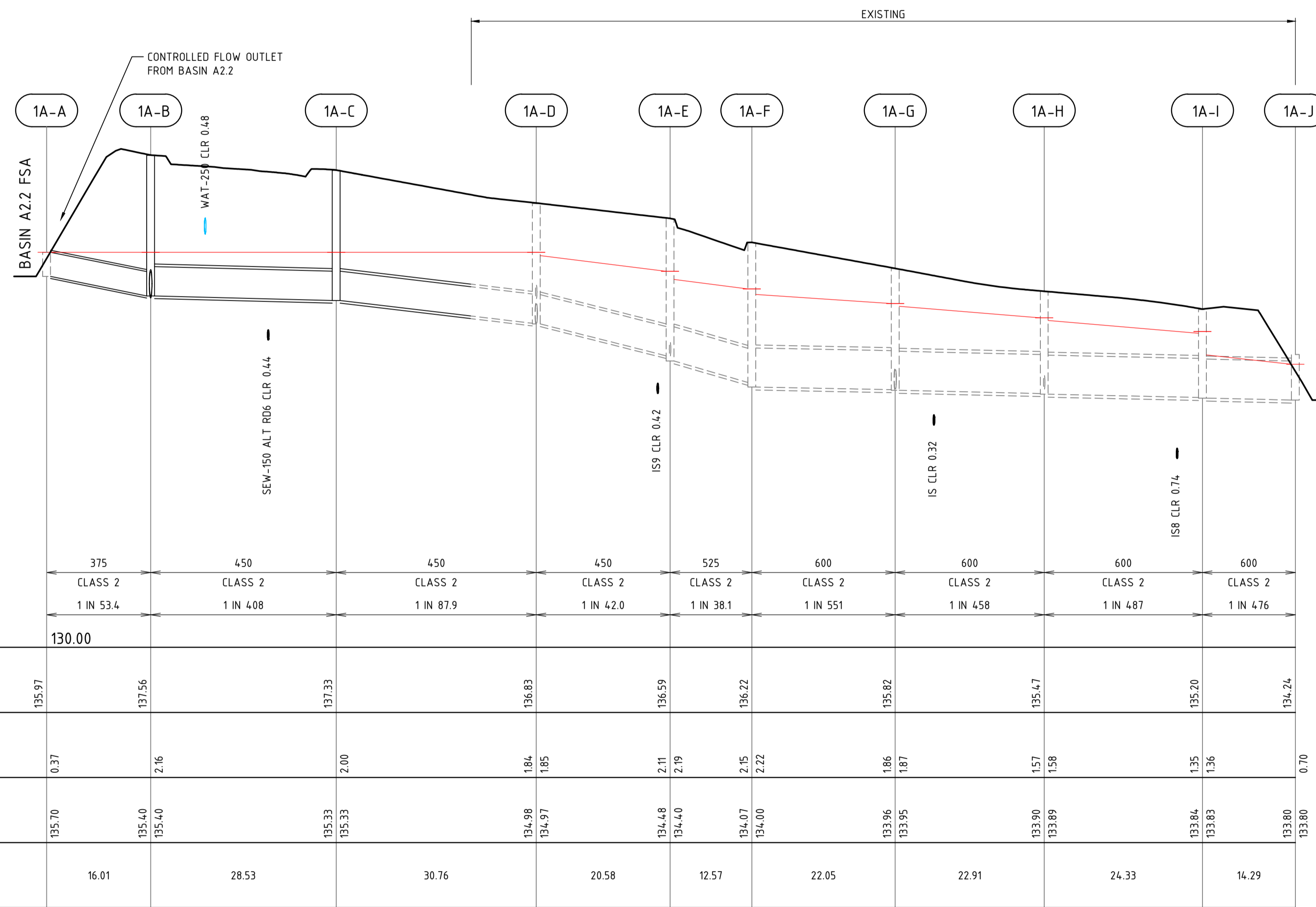
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DESIGNED	L.V.U.	SCALE	AS SHOWN
PROJECT MANAGER	B. WASHFOLD	DATUM	AHD71
JDSi PROJECT No.	JDS242318.01B	CO-ORDS	MRCG94
DRAWING No.	C360	REVISION	B

NOTES

1. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH THE CONTRACT DRAWINGS AND SPECIFICATION.

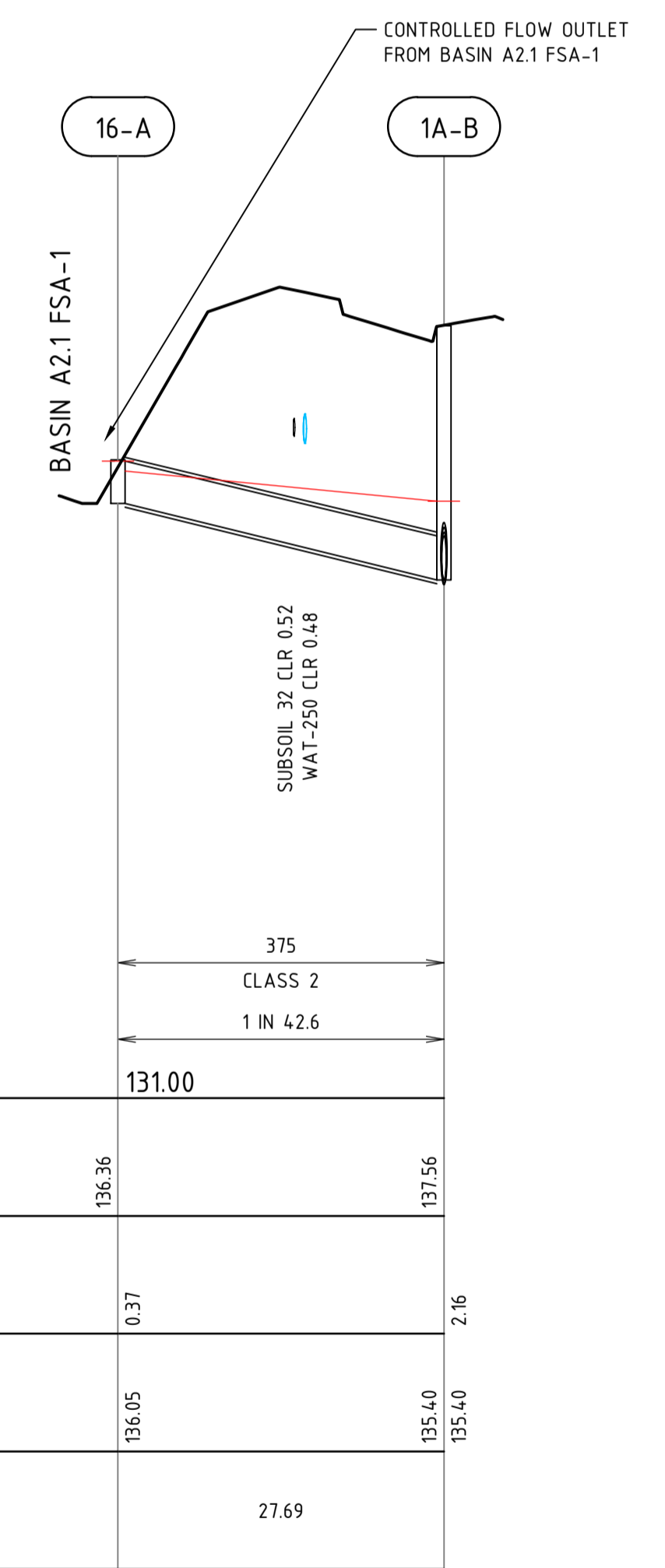
LEGEND

- FINISHED SURFACE LEVEL
- HGL LINE 20% AEP
- DRAINAGE PIPE
- FUTURE DRAINAGE PIPE



PIPE SIZE (mm)	375	450	450	450	525	600	600	600	600	
PIPE GRADE	CLASS 2 1 IN 53.4	CLASS 2 1 IN 408	CLASS 2 1 IN 87.9	CLASS 2 1 IN 42.0	CLASS 2 1 IN 38.1	CLASS 2 1 IN 55.1	CLASS 2 1 IN 458	CLASS 2 1 IN 487	CLASS 2 1 IN 476	
DATUM R.L.	130.00									
FINISHED SURFACE LEVEL	135.97	137.56	137.33	136.83	136.59	136.22	135.82	135.47	135.20	134.24
DEPTH TO INVERT	0.37	2.16	2.00	1.84	2.11	2.19	1.86	1.87	1.55	1.36
INVERT LEVEL	135.70	135.40	135.33	134.98	134.48	134.07	133.96	133.90	133.84	133.80
PIPE LENGTH	16.01	28.53	30.76	20.58	12.57	22.05	22.91	24.33	14.29	0.70

DRAIN LINE 1A



PIPE SIZE (mm)	375	
PIPE GRADE	CLASS 2 1 IN 42.6	
DATUM R.L.	131.00	
FINISHED SURFACE LEVEL	136.36	137.56
DEPTH TO INVERT	0.37	2.16
INVERT LEVEL	136.05	135.40
PIPE LENGTH	27.69	

DRAIN LINE 16



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REV	DATE	DRAWN	CHECKED	APPROVED	DESCRIPTION
0	29.01.26	BWW	BJW	BJW	ISSUED FOR CONSTRUCTION
B	09.12.25	LV	BWW	BJW	FINAL SUBMISSION FOR APPROVAL
A	05.09.25	LV	BWW	BJW	INITIAL SUBMISSION FOR APPROVAL

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Certified Quality System to ISO 9001

CLIENT:

PROJECT:
LOT 500 WIRING ROAD
COWARAMUP STAGE 01B

DRAWING TITLE:
DRAINAGE LONGITUDINAL SECTIONS
SHEET 2

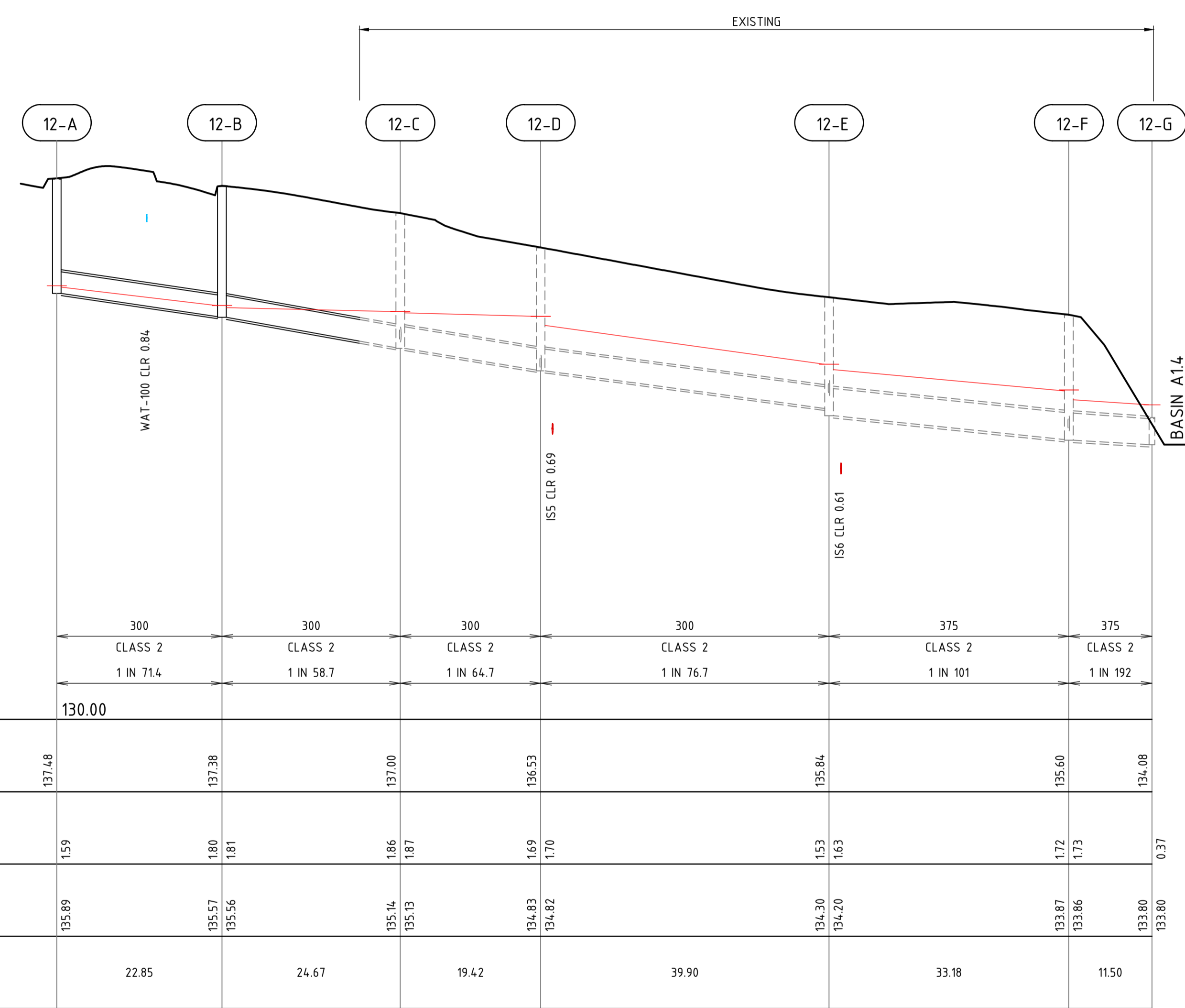
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DESIGNED L.VU	SCALE AS SHOWN
PROJECT MANAGER B. WASHFOLD	DATUM AHD71
JDSI PROJECT No. JDS242318.01B	CO-ORDS MRCG94
DRAWING No. C371	REVISION 0

NOTES

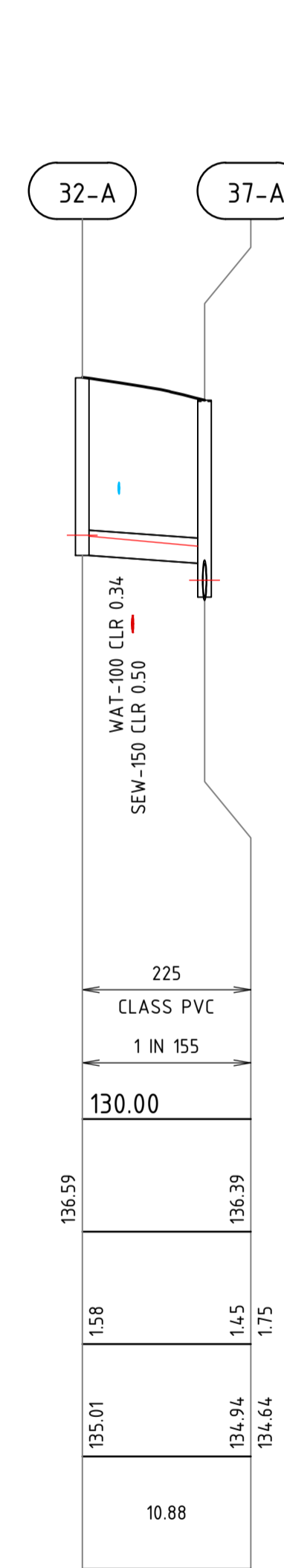
1. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH THE CONTRACT DRAWINGS AND SPECIFICATION.

LEGEND

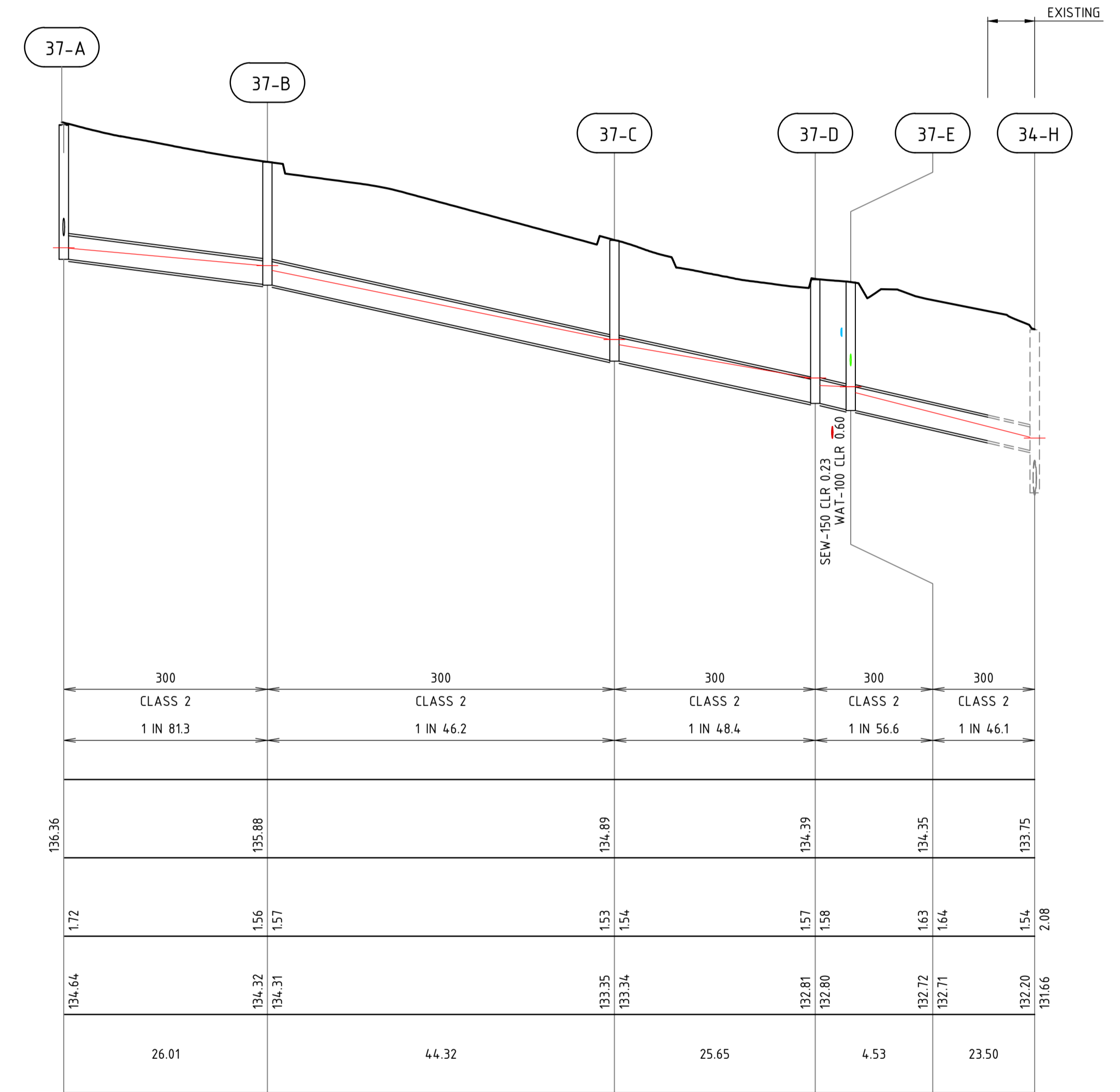
- FINISHED SURFACE LEVEL
- HGL LINE 20%AEP
- DRAINAGE PIPE
- EXISTING DRAINAGE PIPE



DRAIN LINE 12



DRAIN LINE 32



DRAIN LINE 37



WARNING
BEWARE OF UNDERGROUND SERVICES

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REV	DATE	DRAWN	CHECKED	APPROVED	DESCRIPTION
0	29.01.26	BWW	BJW	BJW	ISSUED FOR CONSTRUCTION
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A	05.09.25	LV	BWW	BJW	INITIAL SUBMISSION FOR APPROVAL

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Certified Quality System to ISO 9001

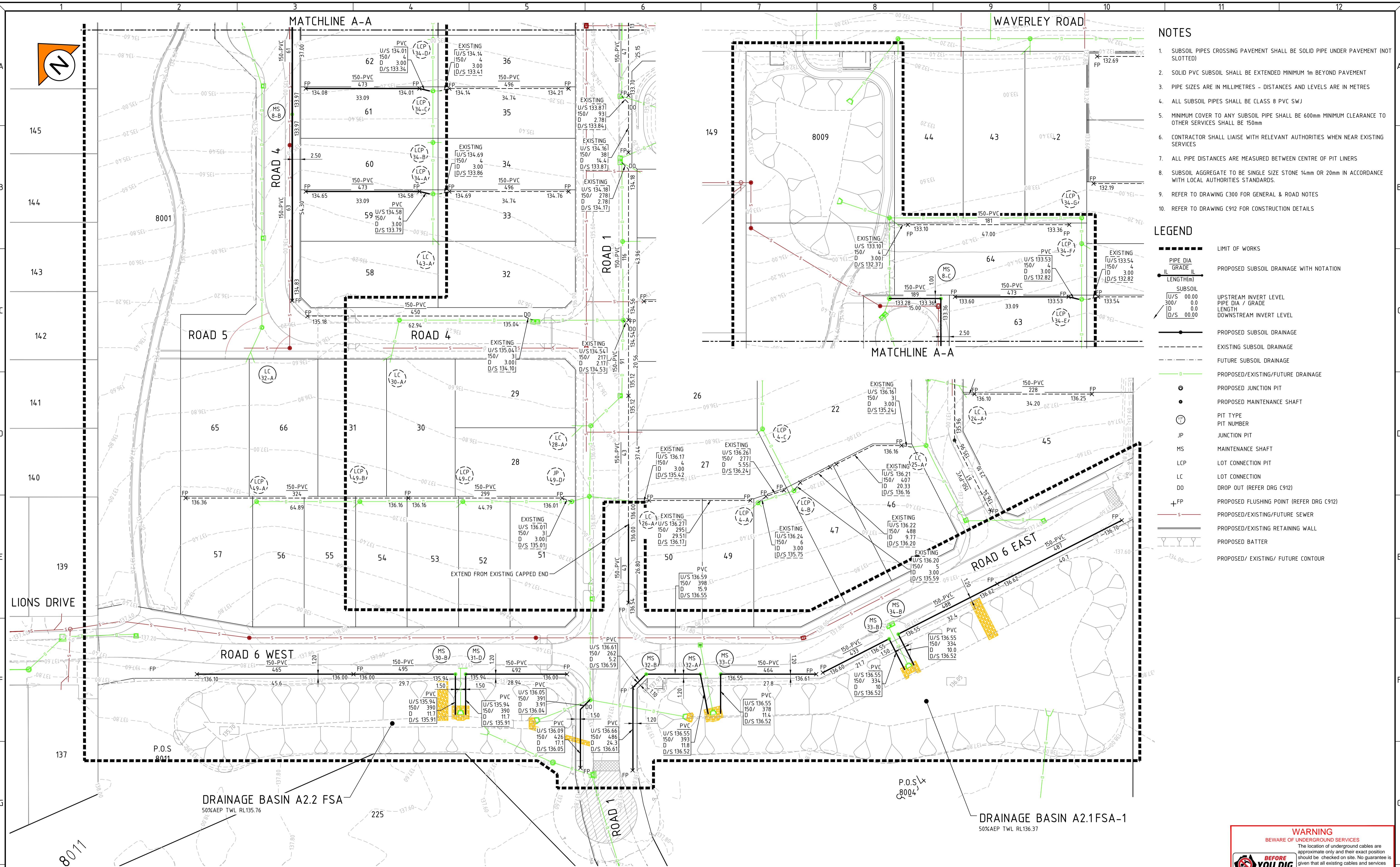


CLIENT:
Birdwood
COWARAMUP - MASTERPLANNED COMMUNITY

PROJECT:
LOT 500 WIRING ROAD
COWARAMUP STAGE 01B

DRAWING TITLE:
DRAINAGE LONGITUDINAL SECTIONS
SHEET 3

DRAWN L.VU	WAPC No. 200656
DESIGNED L.VU	SCALE AS SHOWN
PROJECT MANAGER B.WASHFOLD	DATUM AHD71
JDSI PROJECT No. JDS242318.01B	CO-ORDS MRCG94
DRAWING No. C372	REVISION 0



- ### NOTES
- SUBSOIL PIPES CROSSING PAVEMENT SHALL BE SOLID PIPE UNDER PAVEMENT (NOT SLOTTED)
 - SOLID PVC SUBSOIL SHALL BE EXTENDED MINIMUM 1m BEYOND PAVEMENT
 - PIPE SIZES ARE IN MILLIMETRES - DISTANCES AND LEVELS ARE IN METRES
 - ALL SUBSOIL PIPES SHALL BE CLASS 8 PVC SWJ
 - MINIMUM COVER TO ANY SUBSOIL PIPE SHALL BE 600mm MINIMUM CLEARANCE TO OTHER SERVICES SHALL BE 150mm
 - CONTRACTOR SHALL LIAISE WITH RELEVANT AUTHORITIES WHEN NEAR EXISTING SERVICES
 - ALL PIPE DISTANCES ARE MEASURED BETWEEN CENTRE OF PIT LINERS
 - SUBSOIL AGGREGATE TO BE SINGLE SIZE STONE 14mm OR 20mm IN ACCORDANCE WITH LOCAL AUTHORITIES STANDARDS.
 - REFER TO DRAWING C300 FOR GENERAL & ROAD NOTES
 - REFER TO DRAWING C912 FOR CONSTRUCTION DETAILS

- ### LEGEND
- LIMIT OF WORKS
 - PROPOSED SUBSOIL DRAINAGE WITH NOTATION
 - PROPOSED SUBSOIL DRAINAGE
 - EXISTING SUBSOIL DRAINAGE
 - FUTURE SUBSOIL DRAINAGE
 - PROPOSED/EXISTING/FUTURE DRAINAGE
 - PROPOSED JUNCTION PIT
 - PROPOSED MAINTENANCE SHAFT
 - PIT TYPE
 - PIT NUMBER
 - JUNCTION PIT
 - MAINTENANCE SHAFT
 - LOT CONNECTION PIT
 - LOT CONNECTION
 - DROP OUT (REFER DRG C912)
 - PROPOSED FLUSHING POINT (REFER DRG C912)
 - PROPOSED/EXISTING/FUTURE SEWER
 - PROPOSED/EXISTING RETAINING WALL
 - PROPOSED BATTER
 - PROPOSED/ EXISTING/ FUTURE CONTOUR

PLAN
SCALE 1:500

WARNING
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0	29.01.26	BWW	BJW	BJW	ISSUED FOR CONSTRUCTION
B	09.12.25	LV	BWW	BJW	FINAL SUBMISSION FOR APPROVAL
A	05.09.25	LV	BWW	BJW	INITIAL SUBMISSION FOR APPROVAL
REV	DATE	DRAWN	CHECKED	APPROVED	

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JDSi
CONSULTING ENGINEERS

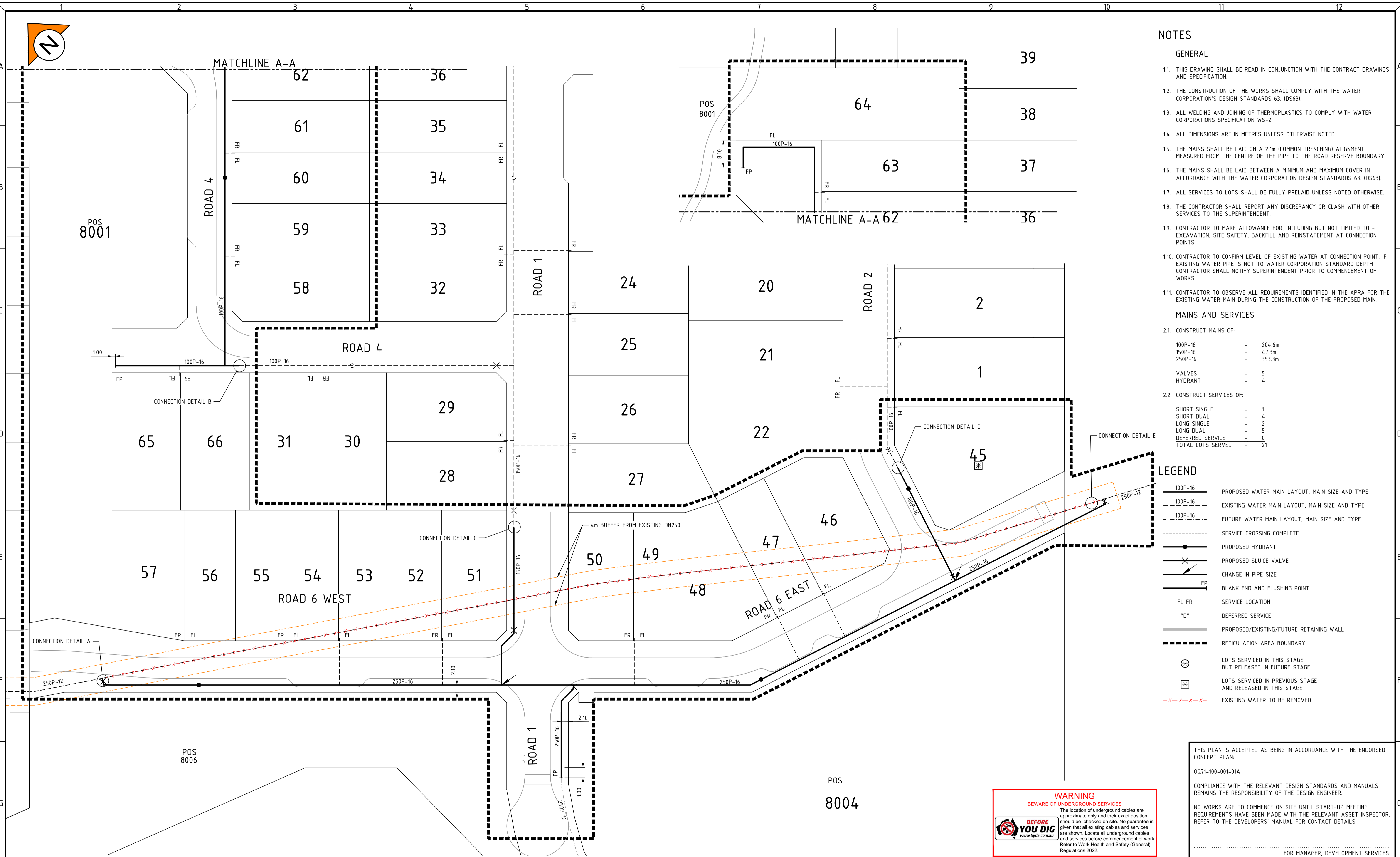
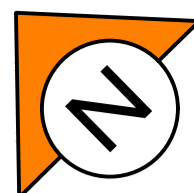
Birdwood
COWARAMUP - MASTERPLANNED COMMUNITY

CLIENT:
**LOT 500 WIRING ROAD
COWARAMUP STAGE 01B**

PROJECT:
**LOT 500 WIRING ROAD
COWARAMUP STAGE 01B**

DRAWING TITLE:
SUBSOIL DRAINAGE PLAN

DRAWN L.V.U.	WAPC No. 200656
DESIGNED L.V.U.	SCALE @ A1 1:500
PROJECT MANAGER B. WASHFOLD	DATUM AHD71
JDSI PROJECT No. JDS242318.01B	CO-ORDS MRCG94
DRAWING No. C380	REVISION 0



NOTES

GENERAL

- THIS DRAWING SHALL BE READ IN CONJUNCTION WITH THE CONTRACT DRAWINGS AND SPECIFICATION.
- THE CONSTRUCTION OF THE WORKS SHALL COMPLY WITH THE WATER CORPORATION'S DESIGN STANDARDS 63. (DS63).
- ALL WELDING AND JOINING OF THERMOPLASTICS TO COMPLY WITH WATER CORPORATIONS SPECIFICATION WS-2.
- ALL DIMENSIONS ARE IN METRES UNLESS OTHERWISE NOTED.
- THE MAINS SHALL BE LAID ON A 2.1m (COMMON TRENCHING) ALIGNMENT MEASURED FROM THE CENTRE OF THE PIPE TO THE ROAD RESERVE BOUNDARY.
- THE MAINS SHALL BE LAID BETWEEN A MINIMUM AND MAXIMUM COVER IN ACCORDANCE WITH THE WATER CORPORATION DESIGN STANDARDS 63. (DS63).
- ALL SERVICES TO LOTS SHALL BE FULLY PRELAI D UNLESS NOTED OTHERWISE.
- THE CONTRACTOR SHALL REPORT ANY DISCREPANCY OR CLASH WITH OTHER SERVICES TO THE SUPERINTENDENT.
- CONTRACTOR TO MAKE ALLOWANCE FOR, INCLUDING BUT NOT LIMITED TO - EXCAVATION, SITE SAFETY, BACKFILL AND REINSTATEMENT AT CONNECTION POINTS.
- CONTRACTOR TO CONFIRM LEVEL OF EXISTING WATER AT CONNECTION POINT. IF EXISTING WATER PIPE IS NOT TO WATER CORPORATION STANDARD DEPTH CONTRACTOR SHALL NOTIFY SUPERINTENDENT PRIOR TO COMMENCEMENT OF WORKS.
- CONTRACTOR TO OBSERVE ALL REQUIREMENTS IDENTIFIED IN THE APRA FOR THE EXISTING WATER MAIN DURING THE CONSTRUCTION OF THE PROPOSED MAIN.

MAINS AND SERVICES

- CONSTRUCT MAINS OF:

100P-16	-	204.6m
150P-16	-	4.7.3m
250P-16	-	353.3m
- CONSTRUCT SERVICES OF:

VALVES	-	5
HYDRANT	-	4
- CONSTRUCT SERVICES OF:

SHORT SINGLE	-	1
SHORT DUAL	-	4
LONG SINGLE	-	2
LONG DUAL	-	5
DEFERRED SERVICE	-	0
TOTAL LOTS SERVED	-	21

LEGEND

- 100P-16 PROPOSED WATER MAIN LAYOUT, MAIN SIZE AND TYPE
- 100P-16 EXISTING WATER MAIN LAYOUT, MAIN SIZE AND TYPE
- 100P-16 FUTURE WATER MAIN LAYOUT, MAIN SIZE AND TYPE
- SERVICE CROSSING COMPLETE
- PROPOSED HYDRANT
- ✕ PROPOSED SLUICE VALVE
- CHANGE IN PIPE SIZE
- FP BLANK END AND FLUSHING POINT
- FL FR SERVICE LOCATION
- "D" DEFERRED SERVICE
- PROPOSED/EXISTING/FUTURE RETAINING WALL
- RETICULATION AREA BOUNDARY
- ⊗ LOTS SERVICED IN THIS STAGE BUT RELEASED IN FUTURE STAGE
- ⊗ LOTS SERVICED IN PREVIOUS STAGE AND RELEASED IN THIS STAGE
- - - - - EXISTING WATER TO BE REMOVED



PLAN SCALE 1:500

WARNING
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THIS PLAN IS ACCEPTED AS BEING IN ACCORDANCE WITH THE ENDORSED CONCEPT PLAN:
0071-100-001-01A

COMPLIANCE WITH THE RELEVANT DESIGN STANDARDS AND MANUALS REMAINS THE RESPONSIBILITY OF THE DESIGN ENGINEER.

NO WORKS ARE TO COMMENCE ON SITE UNTIL START-UP MEETING REQUIREMENTS HAVE BEEN MADE WITH THE RELEVANT ASSET INSPECTOR. REFER TO THE DEVELOPERS' MANUAL FOR CONTACT DETAILS.

FOR MANAGER, DEVELOPMENT SERVICES

OX58-103-001-01A

SHIRE OF AUGUSTA MARGARET RIVER
FILE No. : 207374452

REV	DATE	DRAWN	CHECKED	APPROVED	DESCRIPTION
0	05.02.26	AS	BWV	BJW	ISSUED FOR CONSTRUCTION
C	30.01.26	BWV	BJW	BJW	FINAL SUBMISSION FOR APPROVAL
B	17.12.25	LV	BWV	BJW	INITIAL SUBMISSION FOR APPROVAL
A	05.09.25	LV	BWV	BJW	PRELIMINARY - ISSUED FOR INFORMATION

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JDSi
CONSULTING ENGINEERS

Birdwood
COWARAMUP - MASTERPLANNED COMMUNITY

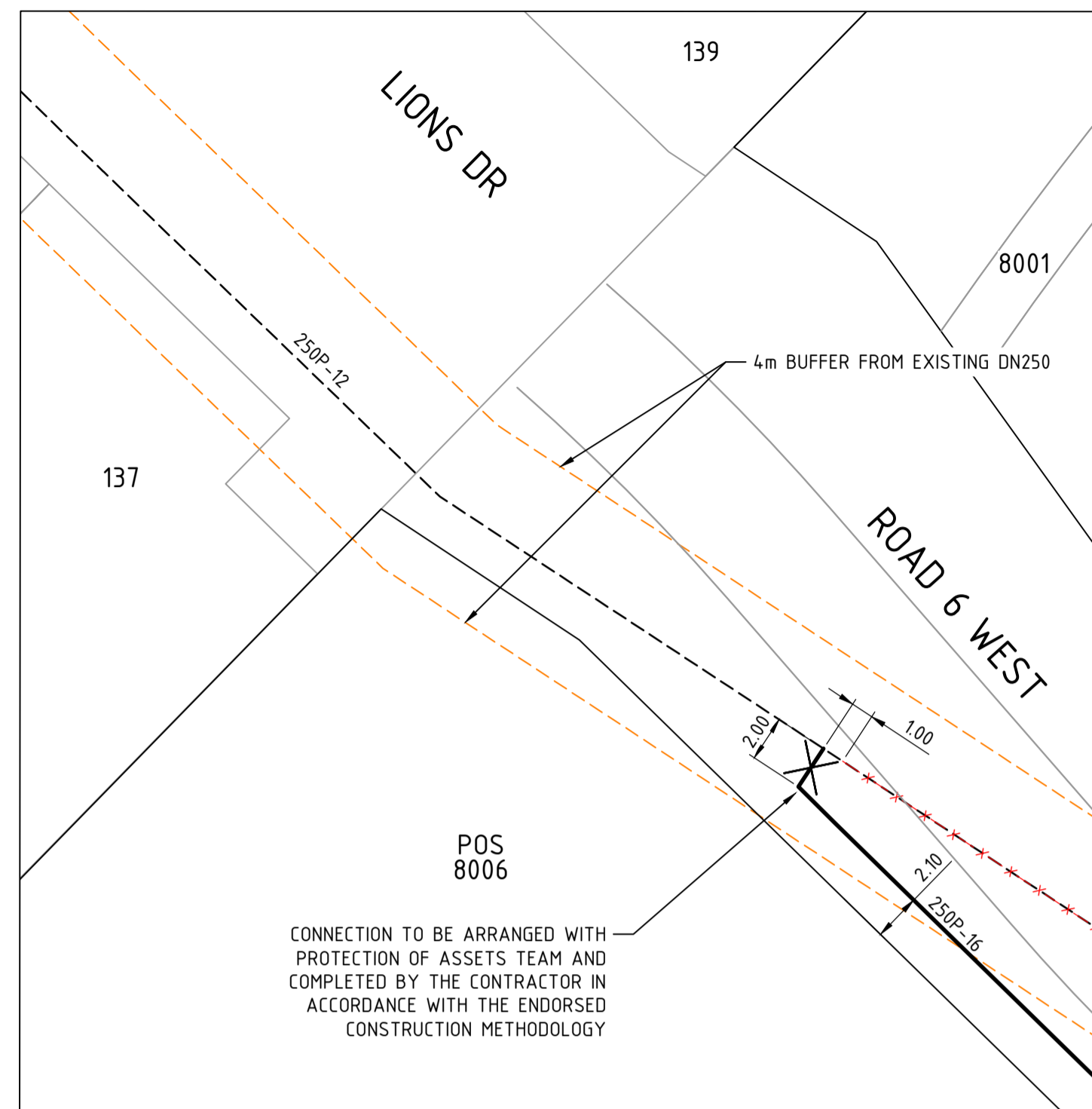
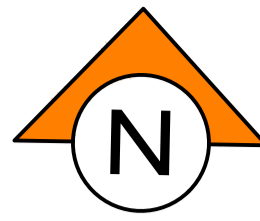
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PROJECT:
DRAWING TITLE:

COWARAMUP - MASTERPLANNED COMMUNITY

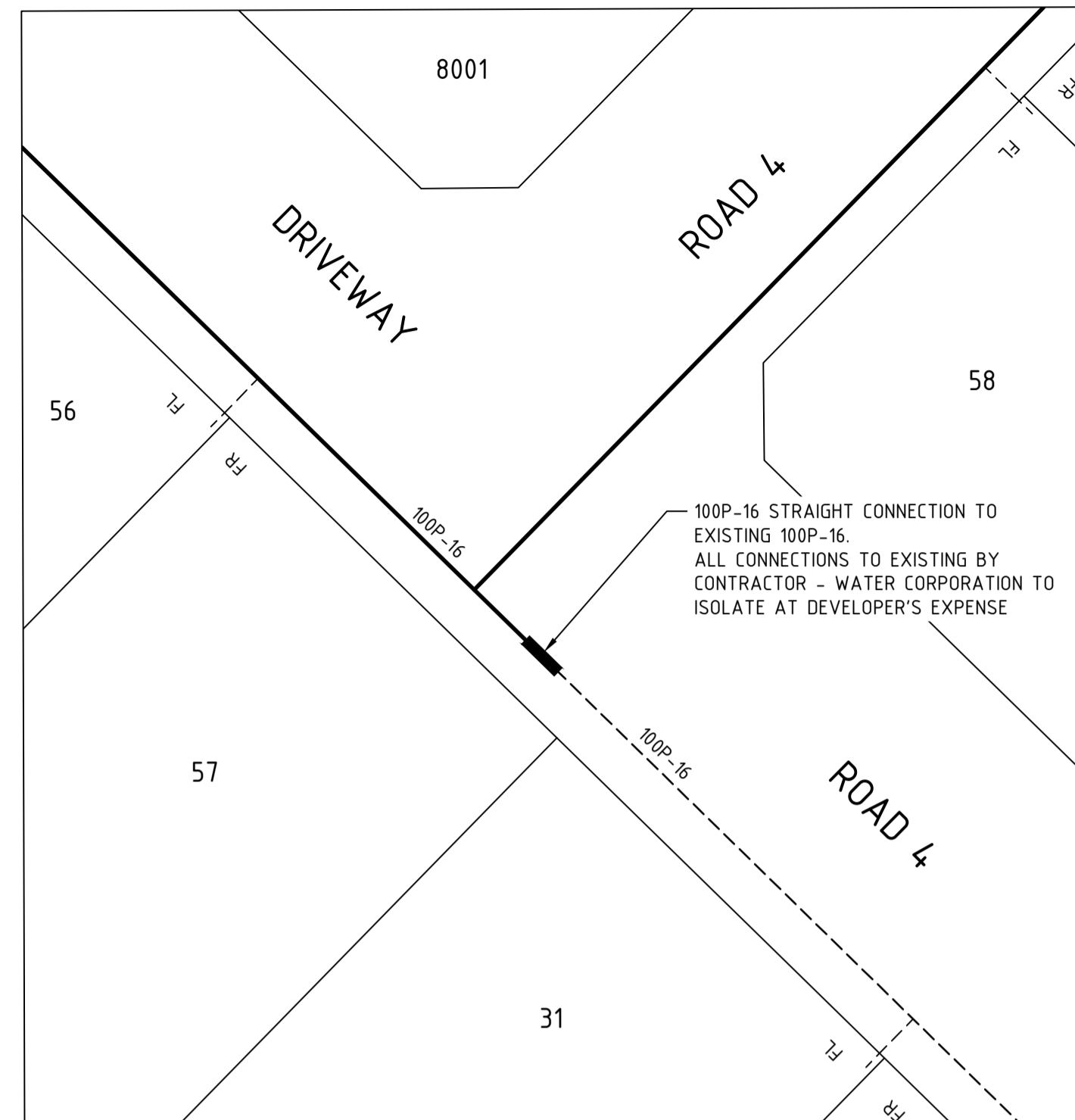
LOT 500 WIRING ROAD
COWARAMUP STAGE 01B

WATER RETICULATION PLAN
SHEET 1

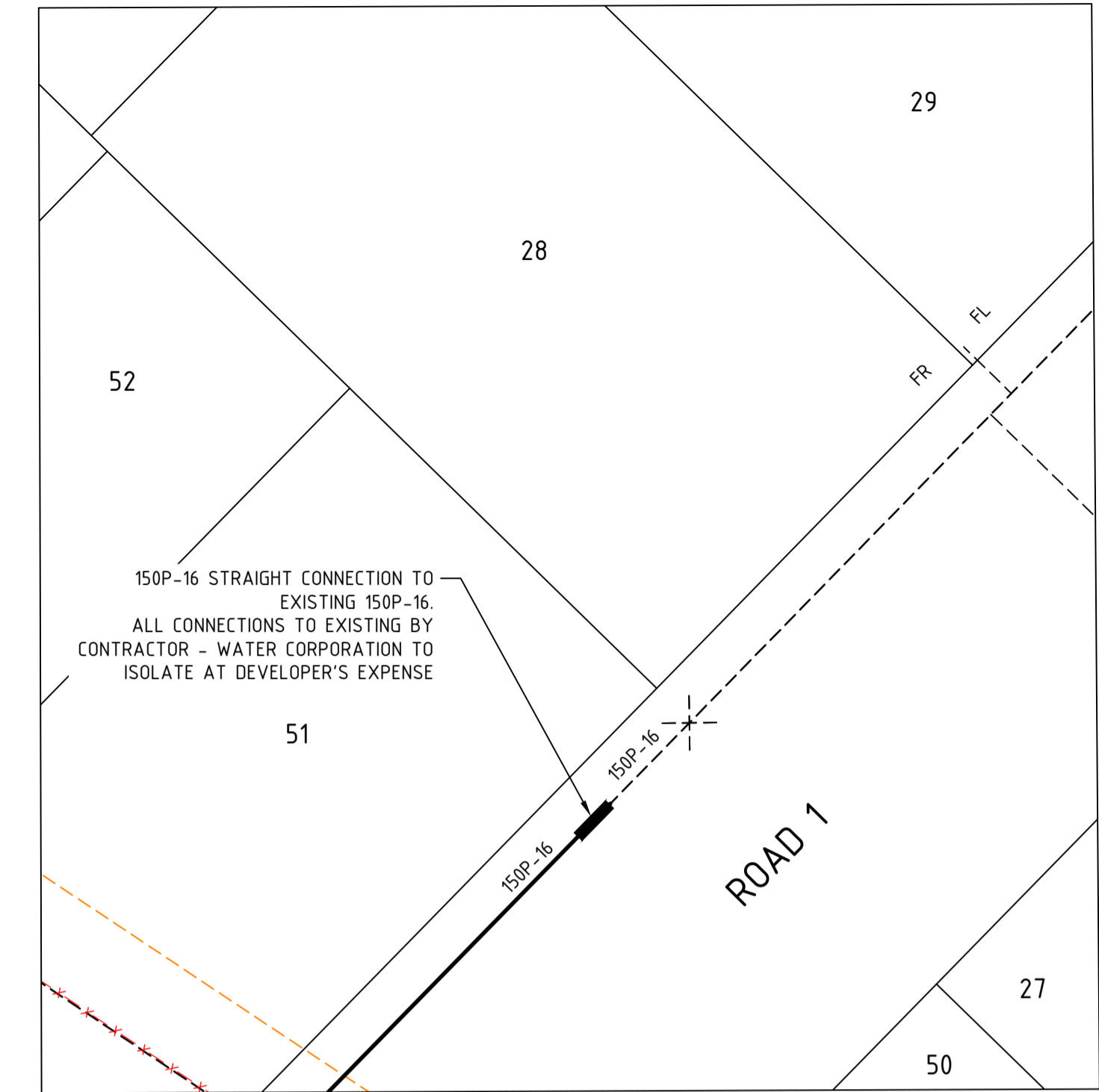
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DESIGNED LVU	SCALE 1:500
PROJECT MANAGER B. WASHFOLD	DATUM AHD71
JDSI PROJECT No. JDS242318.01B	CO-ORDS MRCG94
DRAWING No. C400	REVISION 0



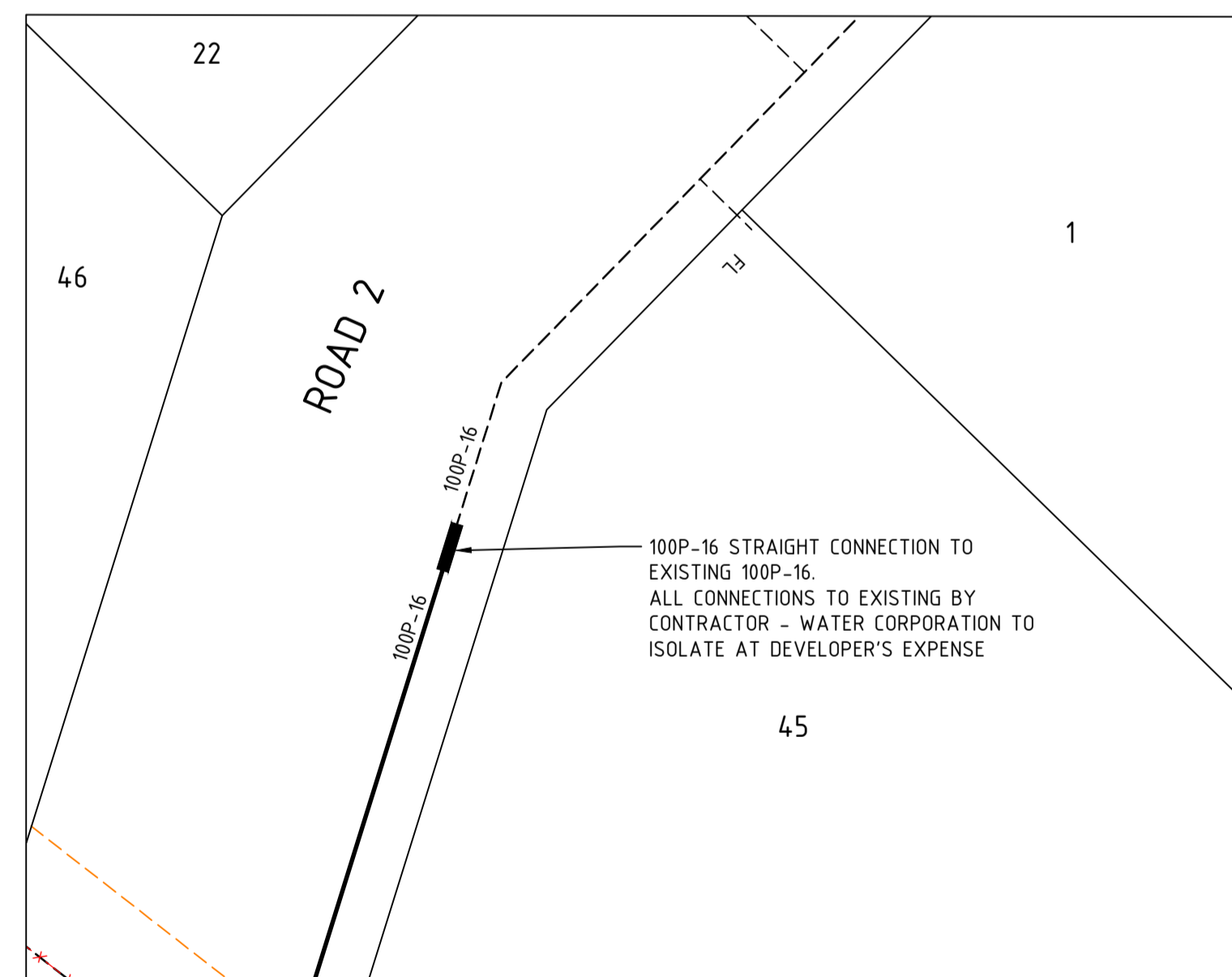
CONNECTION DETAIL 'A'
SCALE 1:250



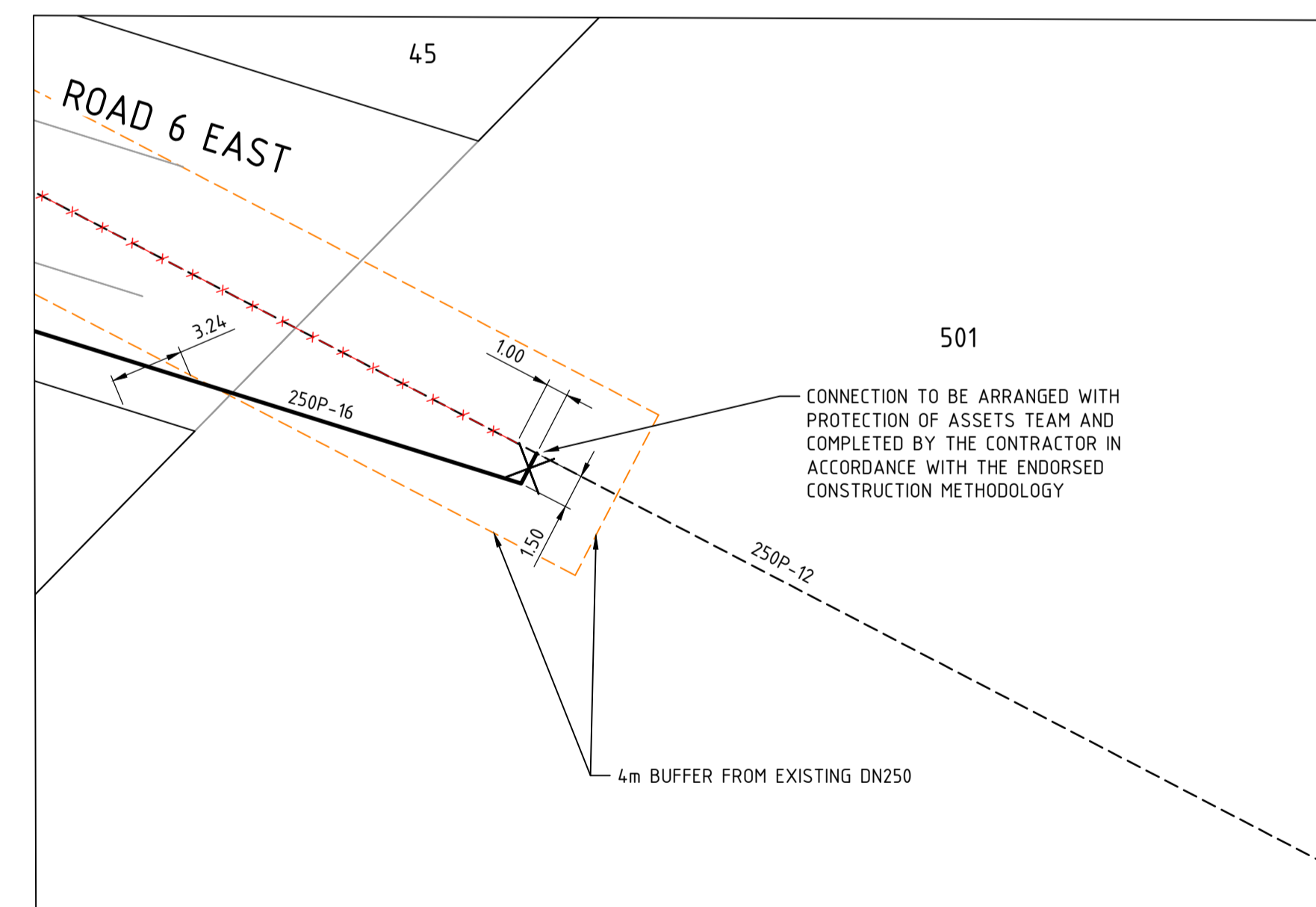
CONNECTION DETAIL 'B'
SCALE 1:250



CONNECTION DETAIL 'C'
SCALE 1:250



CONNECTION DETAIL 'D'
SCALE 1:250



CONNECTION DETAIL 'E'
SCALE 1:250

WARNING
BEWARE OF UNDERGROUND SERVICES

BEFORE YOU DIG
www.byda.com.au

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0071-100-001-01A

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FOR MANAGER, DEVELOPMENT SERVICES

OX58-103-001-01A

SHIRE OF AUGUSTA MARGARET RIVER
FILE No. : 207374452

0 2.5 5 10 15m
SCALE 1:250 @ ORIGINAL SHEET SIZE A1

REV	DATE	DRAWN	CHECKED	APPROVED	DESCRIPTION
0	05.02.26	AS	BWW	BJW	ISSUED FOR CONSTRUCTION
C	30.01.26	BWW	BJW	BJW	FINAL SUBMISSION FOR APPROVAL
B	17.12.25	LV	BWW	BJW	INITIAL SUBMISSION FOR APPROVAL
A	05.09.25	LV	BWW	BJW	PRELIMINARY - ISSUED FOR INFORMATION

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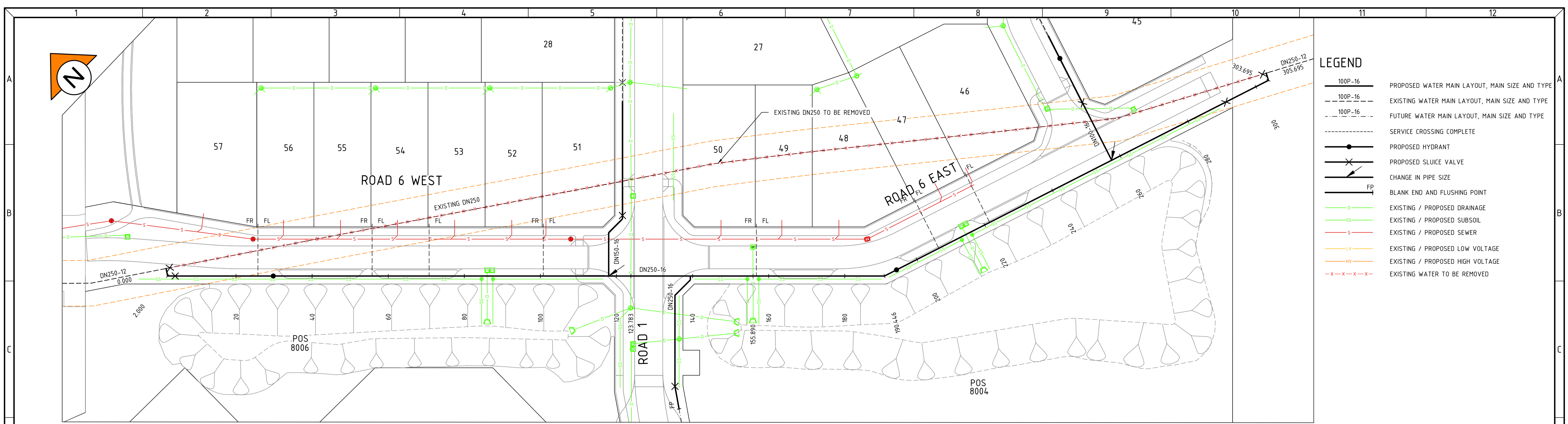


CLIENT:
Birdwood
COWARAMUP - MASTERPLANNED COMMUNITY

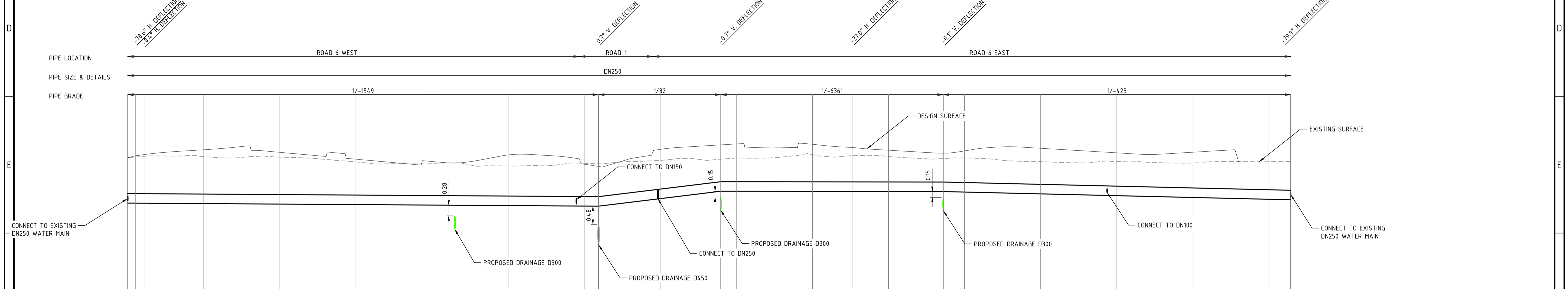
PROJECT:
LOT 500 WIRING ROAD
COWARAMUP STAGE 01B

DRAWING TITLE:
**WATER RETICULATION PLAN
SHEET 2**

DRAWN LVU	WAPC No. 200656
DESIGNED LVU	SCALE @ A1 1:250
PROJECT MANAGER B.WASHFOLD	DATUM AHD71
JDSI PROJECT No. JDS242318.01B	CO-ORDS MRCG94
DRAWING No. C401	REVISION 0



PLAN
SCALE 1:500



EXISTING SURFACE LEVEL	EXISTING SURFACE DEPTH TO INVERT	DESIGN SURFACE LEVEL	DESIGN SURFACE DEPTH TO INVERT	INVERT LEVEL	RUNNING DISTANCE
137.72	1.79	137.62	1.19	136.43	0.00
137.64	1.21	137.61	1.24	136.43	2.00
137.66	1.23	137.70	1.28	136.43	4.30
137.65	1.23	137.83	1.41	136.42	20.00
137.64	1.23	137.76	1.36	136.40	4.000
137.51	1.12	137.58	1.19	136.39	60.00
137.47	1.09	137.52	1.14	136.38	80.00
137.40	1.04	137.69	1.33	136.37	100.00
137.47	1.12	137.45	1.10	136.35	120.00
137.46	1.11	137.39	1.04	136.35	127.78
137.55	1.00	137.84	1.29	136.55	140.00
137.58	0.84	137.96	1.22	136.74	155.89
137.61	0.87	137.98	1.24	136.74	160.00
137.70	0.96	137.97	1.24	136.74	180.00
137.68	0.94	137.89	1.16	136.74	190.45
137.65	0.92	137.82	1.08	136.73	200.00
137.60	0.87	137.74	1.01	136.73	214.41
137.62	0.90	137.80	1.08	136.72	220.00
137.52	0.85	137.87	1.20	136.67	240.00
137.52	0.90	137.75	1.12	136.62	260.00
137.49	0.91	137.76	1.19	136.58	280.00
137.52	0.99	137.52	0.99	136.53	300.00
137.52	1.00	136.52	1.00	136.52	303.69
137.52	1.00	136.52	1.00	136.52	305.69



WARNING
BEWARE OF UNDERGROUND SERVICES
The location of underground cables are approximate only and their exact position should be checked on site. No guarantee is given that all existing cables and services are shown. Locate all underground cables and services before commencement of work. Refer to Work Health and Safety (General) Regulations 2022.

BEFORE YOU DIG
www.byda.com.au

PRELIMINARY

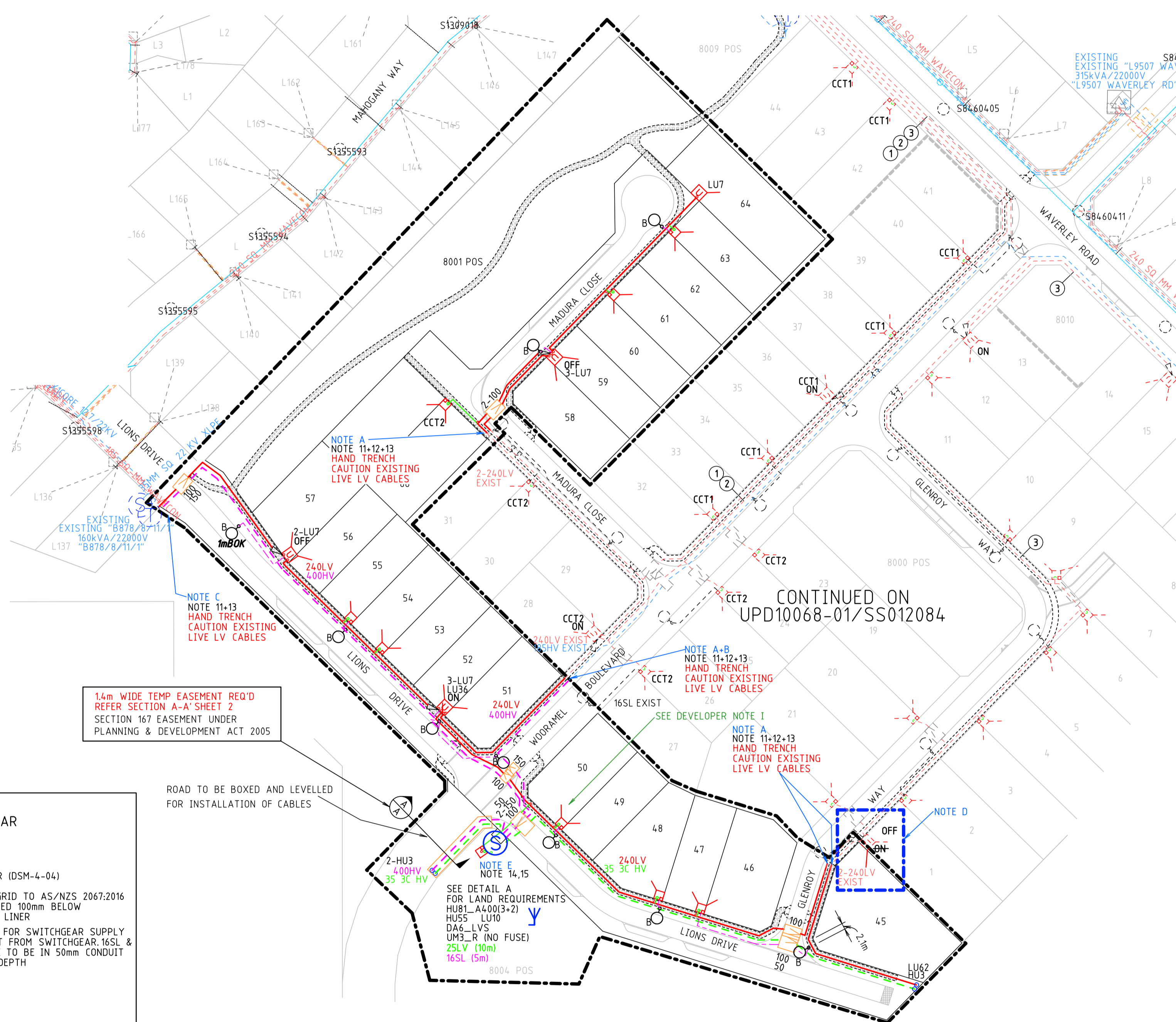
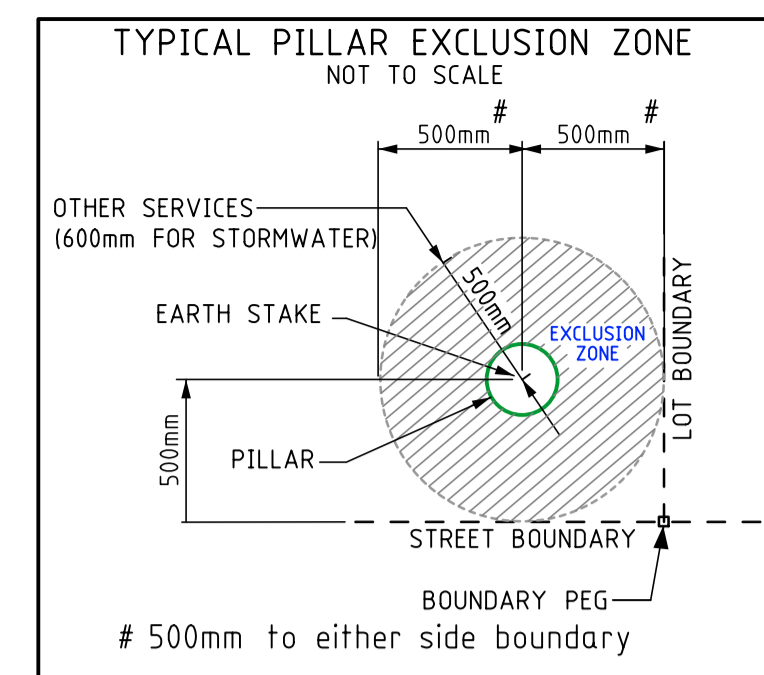
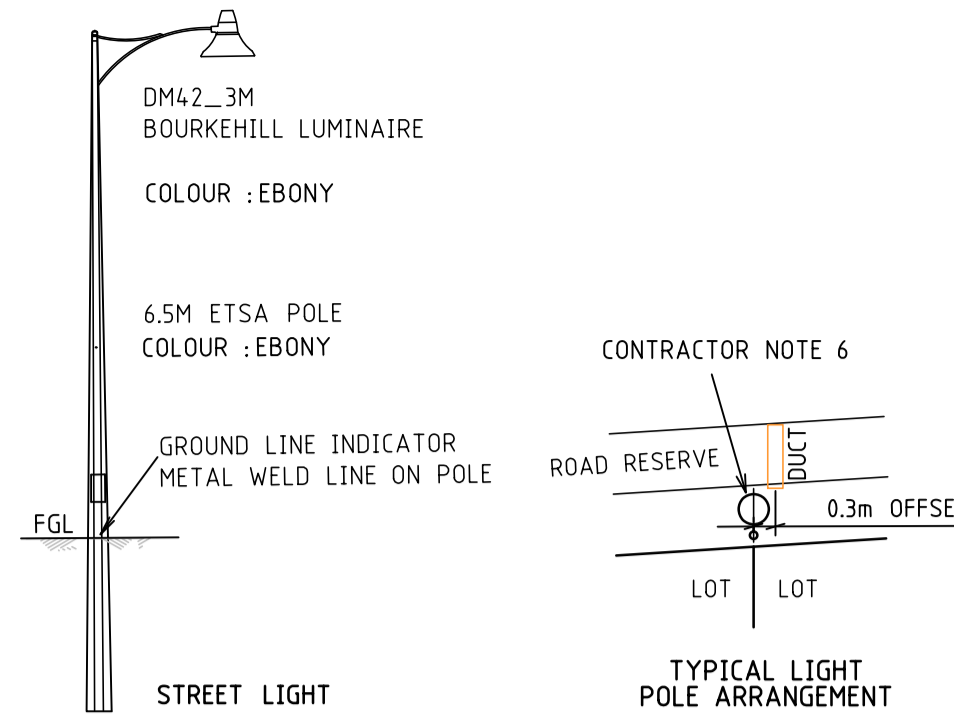
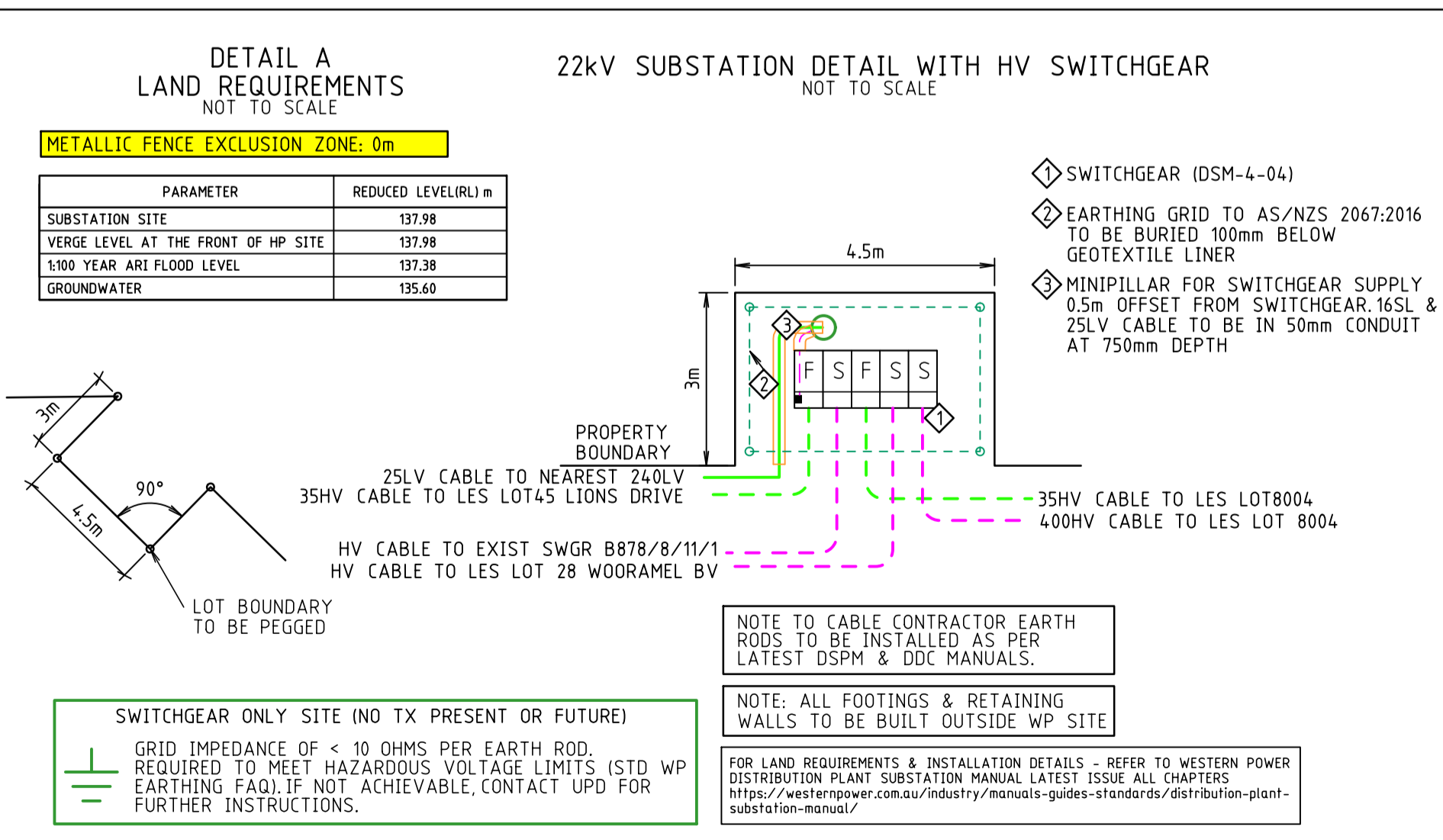
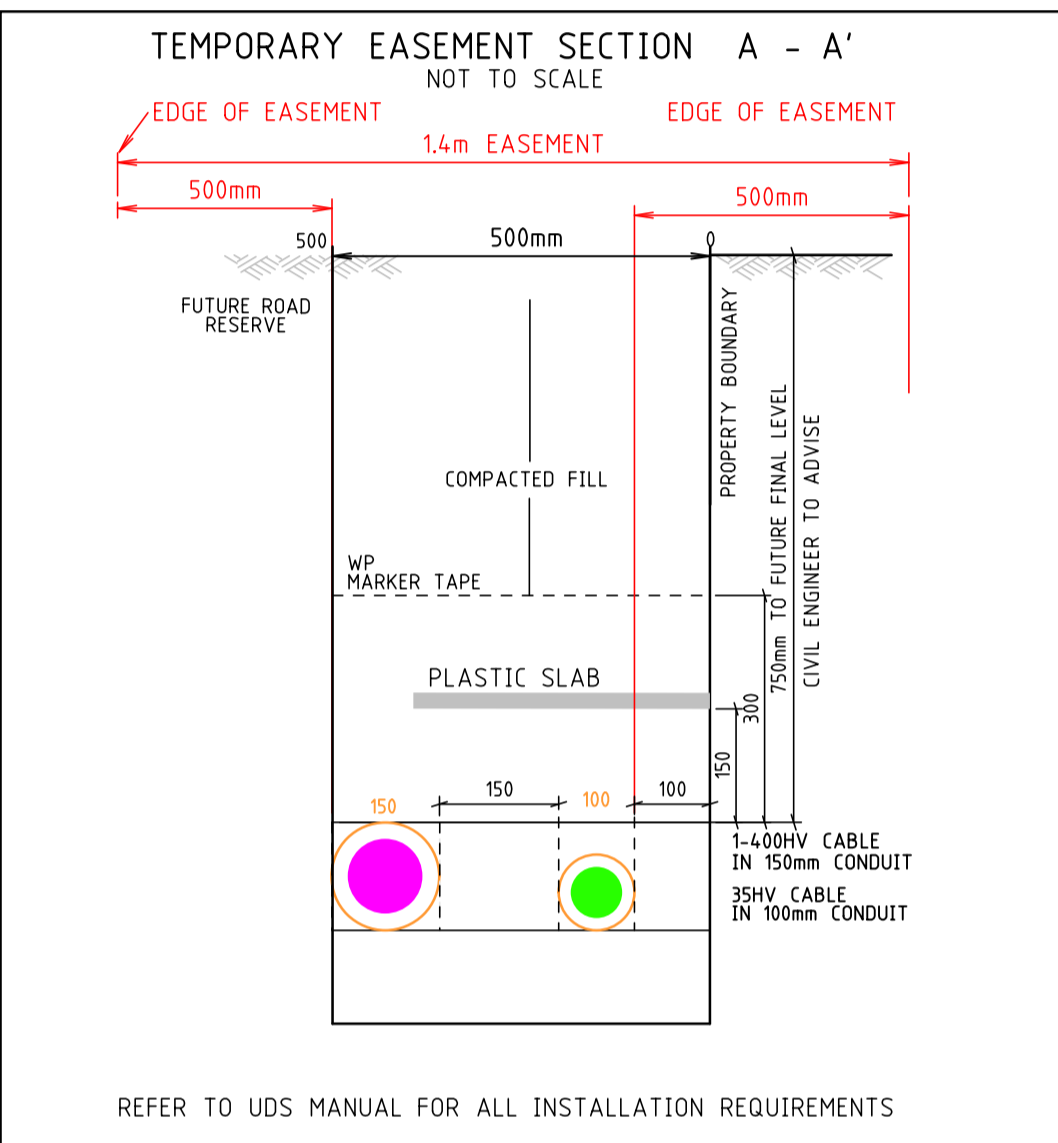
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SAFETY - MAKE IT YOUR PRIMARY VALUE

STREET LIGHTING SCHEDULE							
POLE TYPE	OUTREACH	LUMINAIRE/WATTAGE	COLOUR	LED COLOUR TEMPERATURE	QTY	UNIT WATTS	DAILY HRS OPERATION
DM4_1 - 6.5 ETSA POLE	1.5m SOR	DM42_3M BOURKE HILL LED	EBONY	3000K	9	30W	DUSK/DAWN
						TOTAL	270W

ROAD LIGHTING COMPLIES WITH DARK SKY POLICY EXCEPT THE USE OF LAMP ON/OFF TIMERS AND LAMP COLOUR TEMPERATURE BEING 3000K NOT 2500K AS REQUIRED BY THE POLICY (WESTERN POWER ASSET LIMITATION). STREETLIGHT SPACING IS MAXIMISED TO MINIMISE LIGHTING BUT COMPLY WITH AS1558 MINIMUM REQUIREMENTS AS AGREED WITH THE LGA. REFER NOTE 5 AND 6 FOR STREETLIGHTING REQUIREMENTS

TRANSFORMER NAME AND LOCATION	CCT NO.	FUSE AMPS	CABLE mm ²	CIRCUIT NAME	VOLT DROP (V)	AMPS (A)	TOTAL AMPS @ 4.7kVA/LOT
EXIST TX LOT 8009 WAVERLEY ROAD 315kVA/22kV (413A)	1	315	240	UNI LOT 36 ROAD 1	9.21	157	411.2 A
	2	315	240	UNI LOT 28 ROAD 1	8.90	176	
	3	315	240	UNI LOT 13 ROAD 1	9.71	137	
	4	315	240	UNI LOT # STREET NAME	-	-	
	5	315	240	UNI LOT # STREET NAME	-	-	



- NOTES:
- DRAWING & CONSTRUCTION OF THIS PROJECT TO BE READ & BUILT IN CONJUNCTION WITH WESTERN POWER'S LATEST UDS MANUAL WA DISTRIBUTION CONNECTION MANUAL, DISTRIBUTION CONSTRUCTION STANDARD & DISTRIBUTION DESIGN CATALOGUE. CIVIL CONTRACTOR & CABLE CONTRACTOR TO ADVISE UPD & CONTRACT SUPERINTENDENT OF ANY CONSTRUCTION ISSUES THAT DON'T COMPLY TO WP REQUIREMENTS FOR INSTALLATION OF WP EQUIPMENT
 - UPD TEXT FILES ARE TO BE USED AS A GUIDE ONLY. ORDERING OF MATERIALS ARE THE RESPONSIBILITY OF THE CONTRACTOR FOR THE SUCCESSFUL COMPLETION OF THE PROJECT
 - CABLE CONTRACTOR TO INSTALL ALL CABLES & DUCTS IN ACCORDANCE WITH THE LATEST UDS MANUAL SECTION 5. CABLES TO BE INSTALLED IN CONDUIT ALONG RETAINING WALLS. CONDUIT TO EXTEND 2M PAST END OF WALL. ONE CABLE PER CONDUIT SIZED TO SUIT. CONDUITS TO BE INSTALLED ALONG ALL WALLS WHETHER THEY ARE SHOWN ON DRAWING OR NOT. ALL CONDUITS TO BE AS2053 COMPLIANT. CABLE MARKERS ARE TO BE INSTALLED WHEN CABLE IS OFF STANDARD WP ALIGNMENT. EACH MARKER IS TO BE VISIBLE FROM THE NEXT WITH A MAXIMUM SPACING BETWEEN MARKERS OF 150M. CABLE SLABS TO BE ORDERED FOR 100 & 150mm ROAD CROSSINGS ONLY. CONTRACTOR TO SUPPLY & INSTALL 63mm HD CONDUIT WITH DRAW ROPE FOR BATTLE AXE LOT. METER LOCATION & CONSUMER MAINS TO END OF DRIVEWAY & ACROSS DRIVEWAY TO COMPLY WITH THE LATEST ISSUE OF THE WESTERN AUSTRALIAN SERVICE AND INSTALLATION MANUAL. IF HOUSE IS MORE THAN 30m FROM PILLAR METER BOX TO BE INSTALLED NEXT TO PILLAR
 - CONDUITS TO BE INSTALLED UNDER/THROUGH ALL WALLS FOR CABLES FROM ROAD RESERVES TO WP PILLARS, ALONG WITH CONDUIT WITH DRAW ROPE FOR CONSUMERS MAINS. CABLE FOR ADJOINING LOTS THROUGH SIDE LOT WALLS. SERVICE CABLES TO BE JOINTED BEFORE RETAINING WALLS COMPLETED. SLABS ARE NOT REQUIRED IF CABLES ARE IN CONDUIT.
 - INSTALL SL WITHIN THE 2.4M TO 3M WP ALIGNMENT OR AS SPECIFIED ON DRAWING & CLEAR OF FOOTPATHS, PRAM RAMP & ALL SERVICES. SL AT TRUNCATIONS TO BE CENTRALLY LOCATED OR POSITION MARKED AS INDICATED. NO STREETLIGHT POLE PERMITTED IN ZONE 1 (REFER TO WP MANUAL). POSITIONS TO BE PEGGED PRIOR TO INSTALLATION. NOTIFY UPD OF ANY CLASHES. FINAL POSITIONS TO BE DETERMINED ON SITE & MARKED UP ON AS CONSTRUCTED PLAN
 - SL POLE TO BE POSITIONED IN LINE WITH LOT BOUNDARY. WHEN DUCT CROSSING TO SAME BOUNDARY AS SL POLE TO BE INSTALLED. DUCTS TO BE OFFSET MINIMUM 300MM TO ALLOW FOR SL POLE OFFSET DISTANCE TO BE SHOWN ON AS CONSTRUCTED PLAN
 - CONTRACTOR TO ENSURE THERE ARE NO OTHER SERVICES IN THE P/L. CONTRACTOR TO ADVISE UPD/ CIVIL ENGINEER OR SUPERINTENDANT OF ANY CLASHES.
 - NO OTHER UTILITY SERVICES SHALL PASS THROUGH OR BE LOCATED WITHIN THE SERVICE PILLAR EXCLUSION ZONE AS DEFINED IN SECTION 12.5.3 FIGURE 54 AND AS/NZS 3000:2018 TABLE 3.7 - REFER WP UDS MANUAL SECTION 5.3.5.2. ALL PILLARS TO BE INSTALLED 0.3M ABOVE 100YR FLOOD LEVEL
 - CABLE CONTRACTOR TO ARRANGE WITH UPD ONLY TO COMPLETE AS CONSTRUCTED DWG FOR ELECTRONIC SUBMISSION TO WP. THIS DRAWING REMAINS THE PROPERTY OF UPD P/L NO UNAUTHORIZED REVISIONS PERMITTED. CABLE CONTRACTOR TO SUPPLY A LETTER OF COMPLIANCE TO SECTION 6.2.2.1 & 6.2.2.2 OF THE LATEST UDS MANUAL WHEN SENDING TO UPD THE AS CONSTRUCTED DRAWING FOR SUBMISSION TO WP
 - IF ACID SOILS ARE PRESENT, CLEAN NEUTRAL BACK FILL IS TO BE USED AROUND THE CABLES.
 - CABLE CONTRACTOR TO CAP & BURY/COIL HV/LV/SL CABLES FOR WP TO JOINT/TERMINATE TO EXIST TO WP ASSET. WHERE NEW CABLES ARE BEING INSTALLED TO INTERFACE WITH EXISTING CABLES OR THE OVERHEAD NETWORK, A MINIMUM OF 15m CABLE OVERLAP IS REQUIRED AND SHOULD BE LEFT TO ALLOW FOR SUFFICIENT TESTING OF THE CABLE AND CUTTING TO SUIT THE JOINT OR TERMINATION LOCATION. CONTRACTOR TO CARRY OUT REINSTATEMENT OF EXISTING INFRASTRUCTURE AFTER WP HAS COMPLETED THEIR WORKS. LIAISE WITH WP FOR WORKS TIMING
 - CABLE CONTRACTOR TO LOCATE EXIST LIVE END SEALS FROM PREVIOUS STAGE AND LEAVE 1.5m OVERLAP OF NEW CABLE TO EXISTING CABLE TO ALLOW WP TO JOINT ONTO EXISTING CABLE. REFER TO UDS MANUAL.
 - CABLE CONTRACTOR TO ENGAGE SUITABLY QUALIFIED ELECTRICAL PERSON DURING CONSTRUCTION WHEN INSTALLING NEW CABLES/EQUIPMENT IN THE VICINITY OF EXISTING LIVE WP ASSETS IN ACCORDANCE WITH WORKSAFE POLICY
 - WP SITE TO BE INCORPORATED EITHER AS AN EXTENSION OF THE ROAD RESERVE OR POS. NO PIPES, DRAINS OR OTHER SERVICES ARE PERMITTED BENEATH SUBSTATION. SITE. IF ANY SUBSTATION LIES WITHIN THE 100 YEAR FLOOD ZONE THE SUBSTATION MUST BE 0.5M ABOVE THE FLOOD ZONE LEVEL. CABLE CONTRACTOR TO ARRANGE FOR EARTHING TEST SHEET TO BE SENT TO UPD & CONTRACT SUPERINTENDANT AT COMPLETION OF EARTHING SYSTEM INSTALLATION.

LEGEND

SCHEME BOD.

RETAINING WALL

RESTRICTED ZONE

EASEMENT

HV CABLES

- CN53 - 400mm2 (3X1c)
- CN49 - 240mm2 (3X1c)
- CN48 - 185mm2 (3X1c)
- CN50 - 95mm2 (3X1c)
- CN51 - 50mm2 (3X1c)
- CN51 - 50mm2 (1c)
- CN46 - 35mm2 (3X1c)
- CN47 - 35mm2 (1c)
- EXISTING HV CABLES (SIZE AND TYPE INDICATED)

LV-SL CABLES

- CN45 - 240mm2 (1X3c)
- CN44 - 185mm2 (1X3c)
- CN43 - 120mm2 (1X3c)
- CN42 - 25mm2 (1X3c)
- CN41 - 16mm2 SL (1c)
- EXISTING LV/SL CABLES (SIZE AND TYPE INDICATED)

STREET LIGHTS

EXISTING

- POLE BRACKET
- SINGLE OUTREACH
- DOUBLE OUTREACH
- 4-WAY

ALPHA CHARACTER DENOTES STREET LIGHT TYPE. REFER STREET LIGHT SCHEDULE FOR POLE & LUMINAIRE DETAILS.

PILLARS / PITS / ETC

- MINI (WORKING END)
- UNIVERSAL
- MINI
- CABLE MARKER U/G
- Transformed Unenergised Lot
- UMS PIT
- UTILITIES PIT
- BOSP PIT
- 100/200AMP OUT/OUT
- CONDUIT / POLY PIPE

SWITCHGEAR

EXISTING

- AERIAL CONDUCTORS AND POLES
- NEW POLE (ANY TYPE AS INDICATED)
- EXISTING POLE (ANY TYPE AS INDICATED)
- EXISTING HV/LV AERIAL CONDUCTORS (SIZE AND TYPE INDICATED)
- EXISTING HV/LV AERIAL CONDUCTORS TO BE REMOVED AS INDICATED

WP SCOPE OF WORKS

A). WP TO CARRY OUT CABLE JOINTING OF NEW 240LV CABLE TO EXIST 240LV CABLE. REMOVE ALL ITEMS TO ALLOW FOR JOINTING TO TAKE PLACE INCLUDING EXCAVATION & BACKFILLING OF JOINT BAY WITH SAND TO A SUITABLE SAFE LEVEL. WP TO SUPPLY ALL MATERIALS

B). WP TO CARRY OUT CABLE JOINTING OF NEW 400HV CABLE TO EXIST 185HV CABLE. REMOVE ALL ITEMS TO ALLOW FOR JOINTING TO TAKE PLACE INCLUDING EXCAVATION & BACKFILLING OF JOINT BAY WITH SAND TO A SUITABLE SAFE LEVEL. WP TO SUPPLY ALL MATERIALS

C). WP TO CARRY OUT CABLE TERMINATION OF 240LV AND 400HV CABLES IN EXISTING TX & SWGR RESPECTIVELY, INCLUDING EXCAVATION & BACKFILLING WITH SAND TO A SUITABLE SAFE LEVEL. WP TO SUPPLY ALL MATERIALS

D). WP TO REMOVE LINKS FROM UNI PILLAR

E). WP TO NOTE THAT MOTORIZED HV SWITCHGEAR A MINI PILLAR RMU LV SUPPLY POINT. 16 SL CABLE & RMU CUT-OUT FUSE BOX HAVE BEEN INSTALLED FOR FUTURE AUTOMATION OF THE NEW RMU ON LOT 8004 IN LINE WITH DSPM-4-04 SHEET 3 AND UDS REQUIREMENTS.

DEVELOPERS NOTES

I). DEVELOPER TO ENSURE THAT PILLAR MUST BE ACCESSIBLE TO THE ROAD 24/7. IF FENCE IS TO BE INSTALLED IT MUST GO AROUND PILLAR;

- MINI PILLAR 1m x 1m EXCLUSION
- UNI PILLAR 1.5m x 1.5m EXCLUSION

WARNING

ALL WORKS IN THE VICINITY (WV) OF EXISTING WESTERN POWER ASSETS ARE TO BE UNDERTAKEN IN ACCORDANCE WITH OCCUPATIONAL SAFETY AND HEALTH (OSH) AND WORKSAFE REQUIREMENTS AS PER WP WEBSITE <https://www.westernpower.com.au/safety/360-aware/> industry-safety/overhead-network-safety

ALL DESIGN ENQUIRIES IN THE VICINITY OF TRANSMISSION LINES, PLEASE CONTACT "transmission.relocations@westernpower.com.au"

INSTRUCTION TO CONSTRUCTION CREWS

IT IS A REQUIREMENT OF WESTERN POWER THAT ALL EXISTING CABLE SIZES ARE CONFIRMED ON SITE TO ENSURE THAT ALL FITTINGS ARE OF THE APPROPRIATE SIZE AND ARE INSTALLED CORRECTLY IN ACCORDANCE TO THE DISTRIBUTION CONSTRUCTION STANDARDS HANDBOOK.

CONTRACTORS TO REFER TO THE WHOLE OF DRAWING INCLUDING NOTES, DETAILS AND ALL SHEETS.

REV	DESCRIPTION	DATE	DRAWN	CHKD	SENT WP	DCR WP
3	ISSUED FOR CONSTRUCTION	26-2-26	RS	ML		
2	SWGR CHANGED TO MOTORIZED	22-01-26	SBE	ML		
1	ISSUED TO WP FOR DCR	21-01-26	KH	ML	21-01-26	26-2-26

ISSUED FOR CONSTRUCTION

GOLDEN SAFETY RULES ARE INDICATIVE ONLY - ALWAYS PERFORM A DETAILED HAZARD ANALYSIS.

IF WORKING IN THE VICINITY OF EXISTING WESTERN POWER ASSETS, REFER TO "WORKSAFE" REGULATION 34A

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DESIGNER ML Western Power Reference No S5012111

NER ENGINEER PB WAPC No 200656

DRAWN KH GEO REFERENCE 33°51'18"S 116°06'38"E

PROJECT TITLE

LOT 500 WIRING RD - STAGE 1B COWARAMUP

22 RESIDENTIAL LOTS UNDERGROUND POWER DISTRIBUTION

SCALE 1:1000

ALL DISTANCES ARE IN METRES

UPD

10068-01B-E01

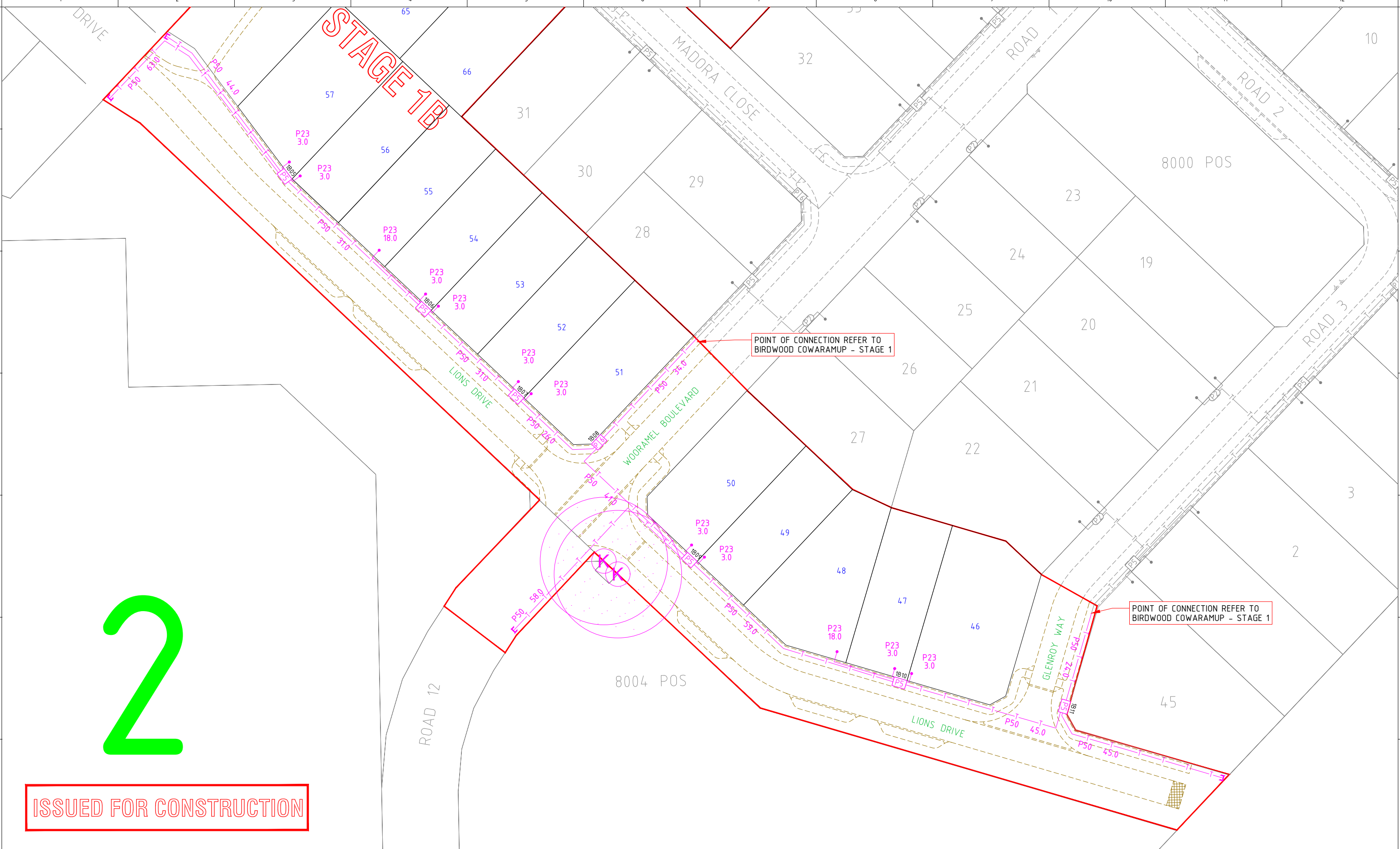
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ISSUED FOR CONSTRUCTION



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 IT SHALL NOT BE SCALED. DUE TO THE SCHEMATIC NATURE OF THIS DRAWING.
 EXACT LOCATION OF ALL PLANT SHALL BE CO-ORDINATED AND VERIFIED ON SITE.

OPTICOMM PROJECT MANAGER : MARCUS DEVITT
 CONTACT NUMBER : 0457 090 474
 EMAIL : MDEVITT@OPTICOMM.COM.AU

WARNING
BWARE OF UNDERGROUND SERVICES
 THE LOCATION OF UNDERGROUND CABLES ARE APPROXIMATE ONLY AND THEIR EXACT POSITION SHOULD BE CHECKED ON SITE. LOCATE ALL UNDERGROUND SERVICES AND CABLES BEFORE COMMENCEMENT OF WORK.

DIAL 1100 BEFORE YOU DIG

REV	DATE	DESIGN	DESCRIPTION	CHECKED	APPROVED
-	-	-	-	-	-
2	09-02-26	C.G. UPD	CHANGES TO CIVIL DESIGN TO EXTEND FOR FUTURE CONNECTION	R.R.	N.V.
1	09-02-26	C.G. UPD	CIVIL DESIGN ISSUED FOR CONSTRUCTION	R.R.	N.V.
B	22-12-2025	K.H. UPD	UPDATED DESIGN (WP SITE MOVED)		
A	31-10-2025	C.G. UPD	ISSUE TO CLIENT FOR COMMENTS	K.H.	R.F.

CONDUIT CONFIGURATION

- CONDUIT SIZE
- CONDUIT QUANTITY
- CONDUIT LENGTH

NAP CONFIGURATION

- NAP DESIGNATION
- FDH DESIGNATION

LEGEND

- 1 x 100mm (C) Telecommunication Pipe
- 2 x 100mm (C) Telecommunication Pipe
- 3 x 100mm (C) Telecommunication Pipe
- 4 x 100mm (C) Telecommunication Pipe
- 5 x 100mm (C) Telecommunication Pipe
- 2 x 50mm (C) Telecommunication Pipe
- 1 x 50mm (C) Telecommunication Pipe
- 50mm Telecommunication Pipe used as a Protective Sleeve
- Medium Pipe Bend Radius for 50mm and 100mm Telecommunication Pipe = 800mm
- 90° Bend Radius for 50mm and 100mm Telecommunication Pipe = 1200mm
- 180° Bend Radius for 50mm and 100mm Telecommunication Pipe = 2400mm
- 1 x 150mm x W555mm x D660mm Telecommunication Pipe (Single Lid)
- 1 x 150mm x W450mm x D660mm Telecommunication Pipe (Single Lid)
- Lead in 20mm Telecommunication Pipe (22mm Internal Diameter) Length 15m 305mm Bend Radius at Pit END CAP
- Single Driveway
- Double Driveway
- Electrical Kiosk/Transformer/Switchgear
- Broadband Aggregation Node (BAN)
- Fibre Access Node (FAN)
- Headend Rack (HDR)
- Fibre Joint Closure (FJC)
- Fibre Distribution Hub (FDH) Connectorised FDH
- OFDC 1:8 Connectorised FDH
- Network Access Point (NAP) Connectorised NAP 1:4 Part
- OFDC Connectorised NAP 1:2 Part
- BIDD PON 1 - WITH SPLING TRAYS
- BIDD PON 2 - NO SPLING TRAYS
- RDT - RAPID WALLBOX
- FIBRE TRUNK CABLE 24F
- FIBRE TRUNK CABLE 24P
- NAP TAIL CABLE
- LEAD-IN ASSEMBLY (LIAI)

Drawing Identification
YKCW-001B

STATE: WA REGION: COWARAMUP

DRAWING TITLE:
BIRDWOOD COWARAMUP STAGE 1B CIVIL / FTTH NETWORK CONSTRUCTION PLAN

PROJECT ID: N/A ELEC PROJ ID: N/A

SCALE: NTS SHEET No: 2 OF 2 REV: 2