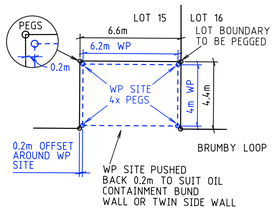
SAFETY - MAKE IT YOUR PRIMARY VALUE

DETAIL A
LAND REQUIREMENTS
NOT TO SCALE

METALLIC FENCE EXCLUSION ZONE: 0m

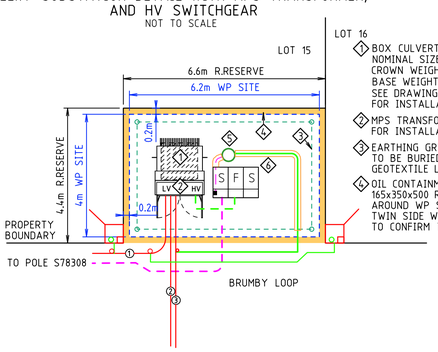
PARAMETER	REDUCED LEVEL(RL) m
SUBSTATION SITE	29.72
VERGE LEVEL AT THE FRONT OF HP SITE	29.70
1:100 YEAR ARI FLOOD LEVEL	28.70
GROUNDWATER	28.70



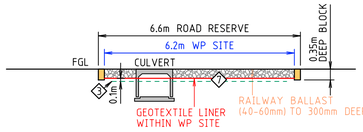
FOR LAND REQUIREMENTS & INSTALLATION DETAILS - REFER TO WESTERN POWER DISTRIBUTION PLANT SUBSTATION MANUAL LATEST ISSUE ALL CHAPTERS
https://westernpower.com.au/industry/manuals-guides-standards/distribution-plant-substation-manual/

NON-STANDARD EARTHING INSTRUCTION
SYSTEM IMPEDANCE OF < 0.36 OHMS COMBINED WITH M.E.N. REQUIRED TO MEET HAZARDOUS VOLTAGE LIMITS. IF NOT ACHIEVABLE, CONTACT UPD FOR FURTHER INSTRUCTIONS

22kV SUBSTATION DETAIL WITH MPS TRANSFORMER, AND HV SWITCHGEAR
NOT TO SCALE



1. BOX CULVERT - CROWN AND BASE TYPE NOMINAL SIZE = 1200 x 900 x 1220 LONG CROWN WEIGHT = 948 kg BASE WEIGHT = 384 kg SEE DRAWING DSM-4-02, DSM-4-04 FOR INSTALLATION DETAILS
2. MPS TRANSFORMER SEE DSPM 3-02 FOR INSTALLATION DETAILS
3. EARTHING GRID TO AS/NZS 2067:2016 TO BE BURIED 100mm BELOW GEOTEXTILE LINER
4. OIL CONTAINMENT BUND WALL 165x350x500 RECONST.LIMESTONE BLOCKS AROUND WP SITE.IF NOT AVAILABLE TWIN SIDE WALL CAN BE USED.AS CON TO CONFIRM TYPE USED

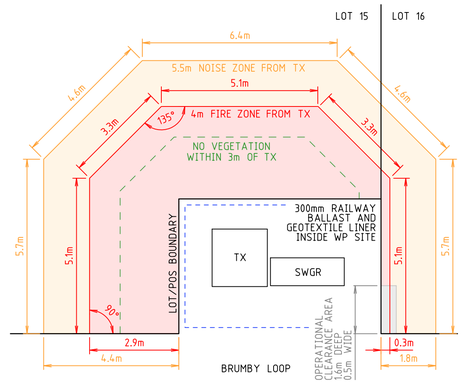


5. MINIPILLAR FOR SWITCHGEAR SUPPLY 0.5m OFFSET FROM SWITCHGEAR.16SL & 25LV CABLE TO BE IN 50mm CONDUIT AT 750mm DEPTH
6. SWITCHGEAR (DSM-4-04)
7. SEE LATEST WP MANUALS FOR INSTALLATION DETAILS, OIL CONTAINMENT AND EARTH RODS

SURVEYOR TO PEG ROAD RESERVE BOUNDARY AND ALSO PEG WP SITE BOUNDARY

NOTE: ALL FOOTINGS & RETAINING WALLS TO BE BUILT OUTSIDE WP SITE

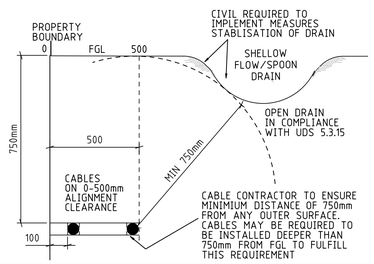
DETAIL AA - FIRE RISK & NOISE ZONE
NOT TO SCALE



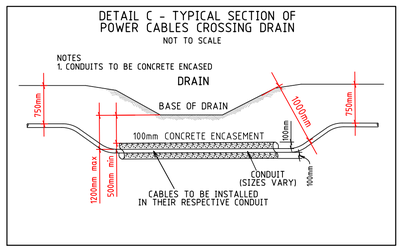
DEVELOPER TO PROVIDE A 129BA FIRE RESTRICTIVE COVENANT AS PER DEVELOPER NOTE I

SURVEYOR TO ARRANGE FOR 70A REQUIREMENTS AS PER DEVELOPER NOTE II

DETAIL B - TYPICAL SECTION OF POWER CABLES RUNNING ADJACENT TO DRAIN
NOT TO SCALE



DETAIL C - TYPICAL SECTION OF POWER CABLES CROSSING DRAIN
NOT TO SCALE



WARNING
ALL WORKS IN THE VICINITY (WIV) 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 "transmissionreflections@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.

ALL WORKS ON EXISTING WESTERN POWER ASSETS ARE TO BE UNDERTAKEN BY WESTERN POWER

ISSUED FOR CONSTRUCTION

CONTRACTOR TO REFER TO ALL NOTES AND DETAILS ON PLAN SHEETS FOR INSTALLATION REQUIREMENTS

REV	DESCRIPTION	DATE	DRAWN	CHKD	SENT WP	DCR WP
2	ISSUED FOR CONSTRUCTION	15-05-26	BT	BE		
1	ISSUED FOR WP DCR	22-09-25	BT	BE	10-02-26	13-05-26



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



THE LOCATION OF EXISTING SERVICES IS APPROXIMATE ONLY. NO GUARANTEE IS GIVEN THAT ALL EXISTING SERVICES ARE SHOWN. ALWAYS REFER TO CURRENT DIAL BEFORE YOU DIG ASSET LOCATION PLANS PRIOR TO COMMENCEMENT OF WORK.
REFER TO 'WORKSAFE' REGULATION 3.21



IF WORKING IN THE VICINITY OF EXISTING OVERHEAD DISTRIBUTION OR TRANSMISSION LINES.
REFER TO "WORKSAFE" REGULATION 3.64

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DESIGNER	BE
NER ENGINEER	PB
DRAWN	BT
Western Power Reference No	MS019897
WAPC No	162084
GEO REFERENCE	32°21'27"S 115°58'38"E

SCALE

PROJECT TITLE

LOT 12 (100) & LOT 14 (88) RICHARDSON ST SERPENTINE
SHEET 2 OF 2

31 SPECIAL RURAL LOTS + 1 POS
UNDERGROUND POWER DISTRIBUTION

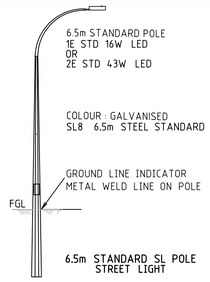
UPD
Suite 4, 47 Havelock Street
WEST PERTH WA 6005
ABN 53 094 593 067
TEL: (08) 9212 8777
EMAIL:admins@upd.com.au

Drawing No 10255-E02
Revision 2
A1 ORIGINAL SIZE

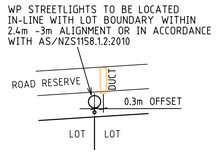
A1 \\proj10200\10255\10255-E.DGN
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SAFETY - MAKE IT YOUR PRIMARY VALUE

STREET LIGHTING SCHEDULE									
	POLE TYPE	OUTREACH	LUMINAIRE/WATTAGE	COLOUR	LED COLOUR TEMPERATURE	QTY	UNIT WATTS	TOTAL WATTS	DAILY HRS OPERATION
A	SL8 6.5m STANDARD	SOR	1E 16W LED	GALVANISED	3000K	15	16W	240W	DUSK/DAWN
B	SL8 6.5m STANDARD	SOR	2E 43W LED	GALVANISED	3000K	6	43W	258W	DUSK/DAWN
C									
D									
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 AS1158 MINIMUM REQUIREMENTS AS AGREED WITH THE THE LGA. **REFER NOTE 5 AND 6 FOR STREETLIGHTING REQUIREMENTS**						TOTAL	498W		



6.5m STANDARD SL POLE
STREET LIGHT



TYPICAL LIGHT
POLE ARRANGEMENT



TYPICAL PILLAR EXCLUSION ZONE
NOT TO SCALE

TRANSFORMER NAME AND LOCATION	CCT NO.	FUSE AMPS	CABLE mm²	CIRCUIT NAME	VOLT DROP (V)	AMPS (A)	TOTAL AMPS @ 5kVA/LOT
NEW TX LOT 15 RICHARDSON ST 630kVA/22kV (827A)	1	315	240	UNI POS WALER WAY	8.72	142	249A
	2	315	240	UNI LOT 26 BRUMBY LOOP	0.53	17	
	3	315	240	UNI LOT 28 BRUMBY LOOP	2.78	102	
	4	315	240	-	-	-	
	5	315	240	-	-	-	

NOTES:
1. 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

2. 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

3. 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

4. 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.

5. INSTALL SL WITHIN THE 2.4M TO 3M WP ALIGNMENT OR AS SPECIFIED ON DRAWING & CLEAR OF FOOTPATHS, PRAM RAMPS & 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

6. 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 BY MINIMUM 300MM TO ALLOW FOR SL POLE OFFSET DISTANCE TO BE SHOWN ON AS CONSTRUCTED PLAN

7. CONTRACTOR TO ENSURE THERE ARE NO OTHER SERVICES IN THE WP 2.7M ALIGNMENT. CONTRACTOR TO ADVISE UPD/ CIVIL ENGINEER OR SUPERINTENDANT OF ANY CLASHES.

8. NO OTHER UTILITY SERVICES SHALL PASS THROUGH OR BE LOCATED WITHIN THE SERVICE PILLAR EXCLUSION ZONE AS DEFINED IN WASIR 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

9. 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 UNAUTHORISED REVISIONS PERMITTED CABLE CONTRACTOR TO SUPPLY A LETTER OF COMPLIANCE TO SECTION 6.2.2.7 & 6.2.2.8 OF THE LATEST UDS MANUAL WHEN SENDING TO UPD THE AS CONSTRUCTED DRAWING FOR SUBMISSION TO WP

10 IF ACID SOILS ARE PRESENT, CLEAN NEUTRAL BACK FILL IS TO BE USED AROUND THE CABLES.

11. 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 EXISTINGCABLES OR THE OVERHEAD NETWORK, A MINIMUM OF 1.5m 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

12. 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.

13. 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

14. 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 SUPERINTENDENT AT COMPLETION OF EARTHING SYSTEM INSTALLATION.

15. CABLE CONTRACTOR TO INSTALL COMPONENTS FOR RMU AUTOMATION AS PER DSPM-4-04 (SHT.3);
- INSTALL MINI PILLAR 0.5m BEHIND RMU
- INSTALL UM3_R DIRECT CONNECTION WITH RED SPOT FUSE
- INSTALL AC CUTOUT ON THE RMU (SEE DETAIL C - DSPM-4-04 SHEET 3)
- INSTALL 25LV CABLE FROM NEAREST LV MAINS TO PILLAR (SEE WP SITE DETAIL)
- INSTALL 16SL CABLE FROM PILLAR TO AC CUT-OUT
- INSTALL RED SPOT FUSE HOLDER IN PILLAR
- TERMINATE 16SL CABLE IN PILLAR VIA REDSPOT FUSE (TO BE OFF/REMOVED)
- TERMINATE 16SL CABLE INTO AC CUT-OUT
- TERMINATE 16sqmm EARTH CABLE ONTO RMU EARTH BAR AND COIL UP INSIDE RMU KIOSK

LEGEND

SCHEME BDY.
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)
- 40 C PILOT
- EXISTING LV CABLES (SIZE AND TYPE INDICATED)

STREET LIGHTS — EXISTING
- POLE BRACKET — POLE BRACKET
- SINGLE OUTREACH — SINGLE OUTREACH
- DOUBLE OUTREACH — DOUBLE OUTREACH
- 4-WAY — 4-WAY

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

PILLARS / PITS / ETC
- MINI (WORKING END)
- UNIVERSAL
- MINI
- LINK
- CABLE MARKER U/G
- HMS PIT
- UTILITIES PIT
- BGSP PIT
- 100/200AMP CUTOUT
- CONDUIT / POLY PIPE
- Serviced Uncleared De-energised Lot

TRANSFORMER — EXISTING — SWITCHGEAR

AERIAL CONDUCTORS AND POLES
- NEW POLE (ANY TYPE AS INDICATED)
- EXISTING POLE (ANY TYPE AS INDICATED)
- HV LV — EXISTING AERIAL CONDUCTORS (SIZE AND TYPE INDICATED)

WP SCOPE OF WORKS

A). WP TO CUT AND 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 ABANDON EXCESS CABLE ACROSS ROAD

C). WP TO CARRY OUT CABLE TERMINATION OF NEW 400HV CABLE TO EXISTING POLE INCLUDING EXCAVATION & BACKFILLING WITH SAND TO A SUITABLE SAFE LEVEL. WP TO SUPPLY ALL MATERIALS

D). WP TO REMOVE EXISTING PILLARS (AND ABANDON REDUNDANT CABLE)

E). WP TO NOTE THAT MOTORISED HV SWITCHGEAR, A MINI PILLAR RMU LV SUPPLY POINT, 16SL CABLE & RMU CUT-OUT FUSE BOX HAVE BEEN INSTALLED FOR FUTURE AUTOMATION OF THE NEW RMU ON LOT 8001 IN LINE WITH DSPM-4-04 SHEET3 AND UDS REQUIREMENTS

DEVELOPERS NOTES

I. DEVELOPER TO PROVIDE A 129BA RESTRICTIVE COVENANT BURDENING PROPOSED LOT/S AROUND THE SUBSTATION SITE FOR FIRE PROTECTION CLEARANCE REQUIREMENTS TO FUTURE BUILDINGS AS PER UNDERGROUND DISTRIBUTION SCHEMES MANUAL CLAUSE 5.3.18.1. CONTACT THE WESTERN POWER PROPERTY SPECIALIST VIA EMAIL AT CONVEYANCING@WESTERNPOWER.COM.AU TO ARRANGE PREPARATION OF REQUIRED DOCUMENTATION." REFER FIRE RISK ZONE DETAIL

II. DEVELOPER TO NOTE:
A PORTION OF THIS/THESE LOT/S MAY BE AFFECTED BY NOISE FROM THE TRANSFORMER. DEVELOPER'S SURVEYOR TO ARRANGE FOR 70A REQUIREMENTS AS PER SECTION 5.3.18.1 IN LATEST UDS MANUAL. LOT HOUSE DESIGN TO ENSURE WINDOWS OF HABITABLE ROOMS ARE ACOUSTICALLY TREATED OR NOT LOCATED WITHIN AREA SHOWN ON NOISE DETAIL SIGNED FORM 70A, FORM TO BE ISSUED TO WP PRIOR TO DEVELOPER REQUESTING CLEARANCES FROM WP WAPC SECTION REFER NOISE IMPACT ZONE DETAIL

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

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

ALL WORKS ON EXISTING WESTERN POWER ASSETS ARE TO BE UNDERTAKEN BY WESTERN POWER

ISSUED FOR CONSTRUCTION

CONTRACTOR TO REFER TO ALL NOTES AND DETAILS ON PLAN SHEETS FOR INSTALLATION REQUIREMENTS

REV	DESCRIPTION	DATE	DRAWN	CHKD	SENT WP	DCR WP
2	ISSUED FOR CONSTRUCTION	15-05-26	BT	BE		
1	ISSUED FOR WP DCR	22-09-25	BT	BE	10-02-26	13-05-26

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

THE LOCATION OF EXISTING SERVICES IS APPROXIMATE ONLY. NO GUARANTEE IS GIVEN THAT ALL SERVICES ARE LOCATED OR SHOWN. ALWAYS REFER TO CURRENT DBYD DRAWINGS, CONFIRM ASSET LOCATIONS ON SITE BEFORE COMMENCEMENT OF WORK.
REFER TO "WORKSAFE" REGULATION 3.21

IF WORKING IN THE VICINITY OF EXISTING OVERHEAD DISTRIBUTION OR TRANSMISSION LINES.
REFER TO "WORKSAFE" REGULATION 3.64

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NORTH POINT

SCALE 1:1000 — 20 10 0 20 40 60 80 — ALL DISTANCES ARE IN METRES

DESIGNER: BE	Western Power Reference No: MS019897
NER ENGINEER: PB	WAPC No: 162084
DRAWN: BT	GEO REFERENCE: 32°21'27"S 115°58'38"E

PROJECT TITLE

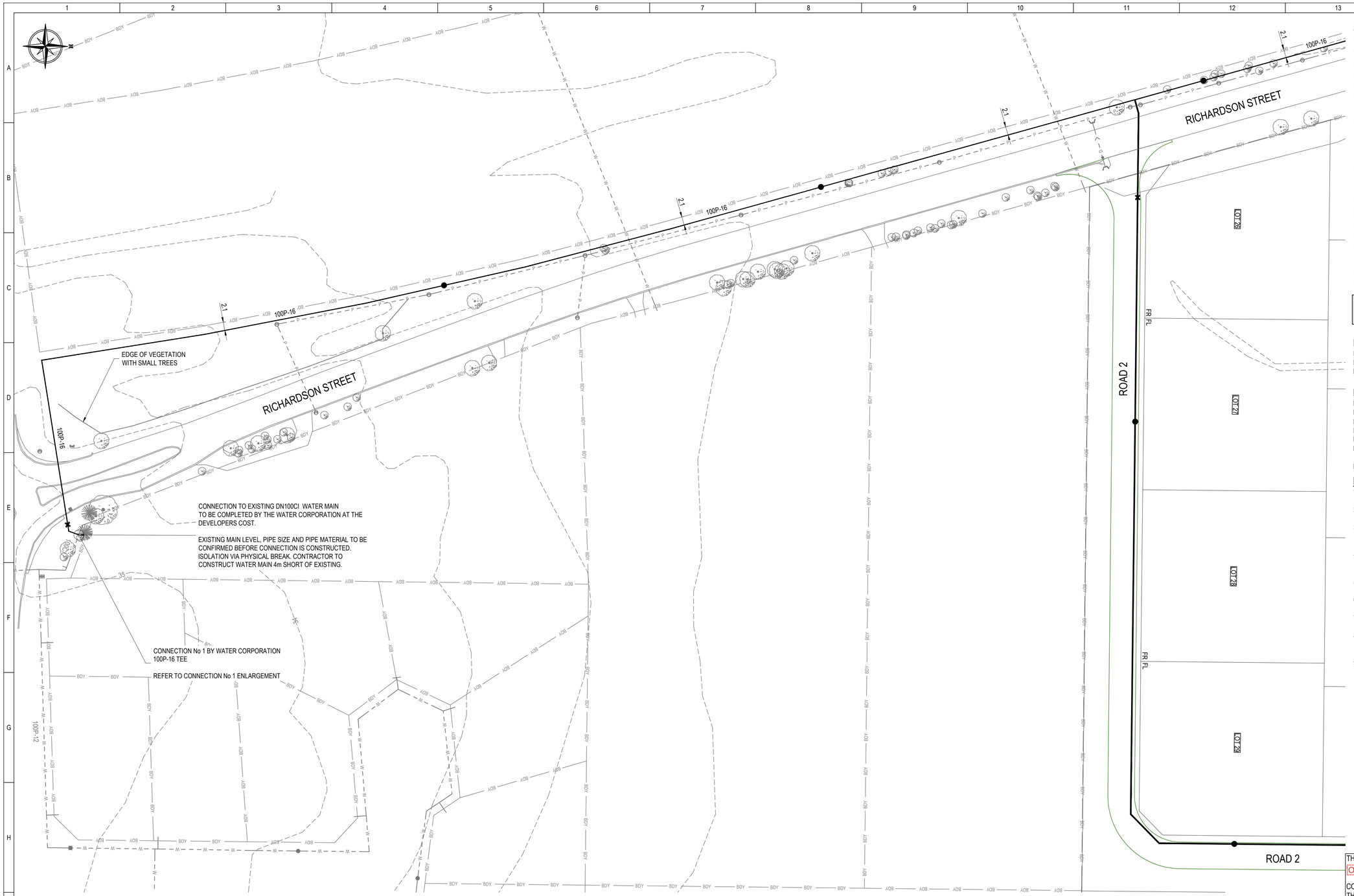
LOT 12 (100) & LOT 14 (88) RICHARDSON ST SERPENTINE SHEET 1 OF 2

31 SPECIAL RURAL LOTS + 1 POS
UNDERGROUND POWER DISTRIBUTION

UPD
Suite 4, 47 Havelock Street
WEST PERTH WA 6005
ABN 53 094 593 067
TEL: (08) 9212 8777 EMAIL: admin@upd.com.au

Drawing No: 10255-E01
Revision: 2
ORIGINAL SIZE A1

A1 ...\proj10200\10255\10255-E.DGN 15/05/2026 3:55:06 PM



LEGEND

(EXISTING)

- WATER
- HYDRANT
- DRAINAGE
- COMM
- UNDERGROUND POWER
- OVERHEAD LOW VOLTAGE POWER
- POWER POLE
- CADASTRAL BOUNDARIES
- CONTOURS
- SPOT HEIGHTS AS PER SURVEY (+29.33)
- WATER MONITORING WELL
- TREE

(PROPOSED)

- RETICULATION AREA BOUNDARY
- LONG SINGLE OR DOUBLE SERVICE CONNECTION
- WATER MAIN
- HYDRANT
- VALVE
- FLUSHING POINT (FP)
- DEFERRED ("D")

ALL WORKS TO COMPLY WITH WATER CORPORATION CURRENT WATER RETICULATION DESIGN STANDARD No. 63

EXTENSION

LAY 1398m OF 100P-16
PROPOSED HYDRANTS : 12
PROPOSED VALVES : 5

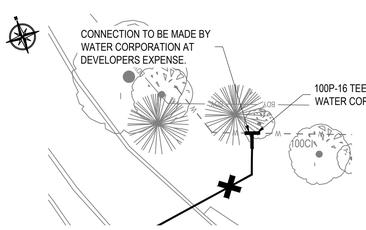
NUMBER OF SERVICES

PRELAID SHORT SINGLE - 1
PRELAID LONG SINGLE - 2
PRELAID SHORT DUAL - 7
PRELAID LONG DUAL - 6
DEFERRED SHORT - 0
DEFERRED LONG - 2

NUMBER OF LOTS BEING SERVED - 31

NOTES:

1. ALL WATER MAINS SHALL BE INSTALLED ON 2.1m ALIGNMENT EXCEPT AS OTHERWISE AGREED.
2. ALL CHAINAGES SHALL BE IN METRES AND PIPE DIAMETERS IN DESIGNATED DN SIZE
3. WHERE NO PIPELINE BENDS ARE SHOWN, PIPES MAU BE DEFLECTED AT ELASTROMETRIC JOINT THAT IS SELECTED FOR THE METER LOCATION, WHEN VIEWED FROM THE ROAD FRONTAGE
4. FL & FR (FULLY PRELAID LEFT AND RIGHT) SHALL INDICATE THE SIDE OF THE LOT THAT IS SELECTED FOR THE METER LOCATION, WHEN VIEWED FROM THE ROAD FRONTAGE
5. THE LOCATIONS AND DETAILS OF FULLY PRELAID SERVICES SHALL BE IN ACCORDANCE WITH THE STANDARD DRAWINGS (SERIES BD62-8)
6. SINGLE AND DUAL LONG SERVICES ACROSS ROADS SHALL BE 25mm AND 32mm PE INSTALLED PRIOR TO ROAD CONSTRUCTION.
7. ALL SHORT AND LONG SINGLE AND DUAL SERVICES SHALL BE PRELAID INTO THE LOTS FOLLOWING THE ROAD CROSSING INSTALLATION WORK.
8. WHEREVER PRACTICABLE, RETICULATION MAINS SHALL EXTEND ACROSS THE FULL FRONTAGE OF LOTS SUBJECT TO THE SUBDIVISION AGREEMENT.
9. DESIGN AND CONSTRUCTION OF RETICULATION MAINS SHALL EXTEND A DISTANCE OF NO LESS THAN 6m AND NO MORE THAN 12m BEYOND THE CONDITIONAL APPROVAL BOUNDARY.



CONNECTION No 1 ENLARGEMENT

4 0 4 8 12 Metres

SCALE 1:200

ENLARGEMENT A WATER MAIN EXTENSION

10 0 10 20 30 Metres

SCALE 1:500

~~LOW RISK - EXCAVATION, CONSTRUCTION AND PIECE UP WORKS BY THE DEVELOPERS CONTRACTOR. ISOLATION BY WATER CORPORATION AT 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~~
OVERALL SCHEME PLANNING

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 INSPECTORS. SEE DEVELOPER'S MANUAL FOR CONTACT DETAILS.

Wayne Smith — Jul 18, 2025 Date

FOR : MANAGER DEVELOPMENT SERVICING

PLAN NO. - OV71-103-001-01A
FILE NO. - 197343584
WAPC - 162084

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 WORKSAFE REGULATION 3.21.

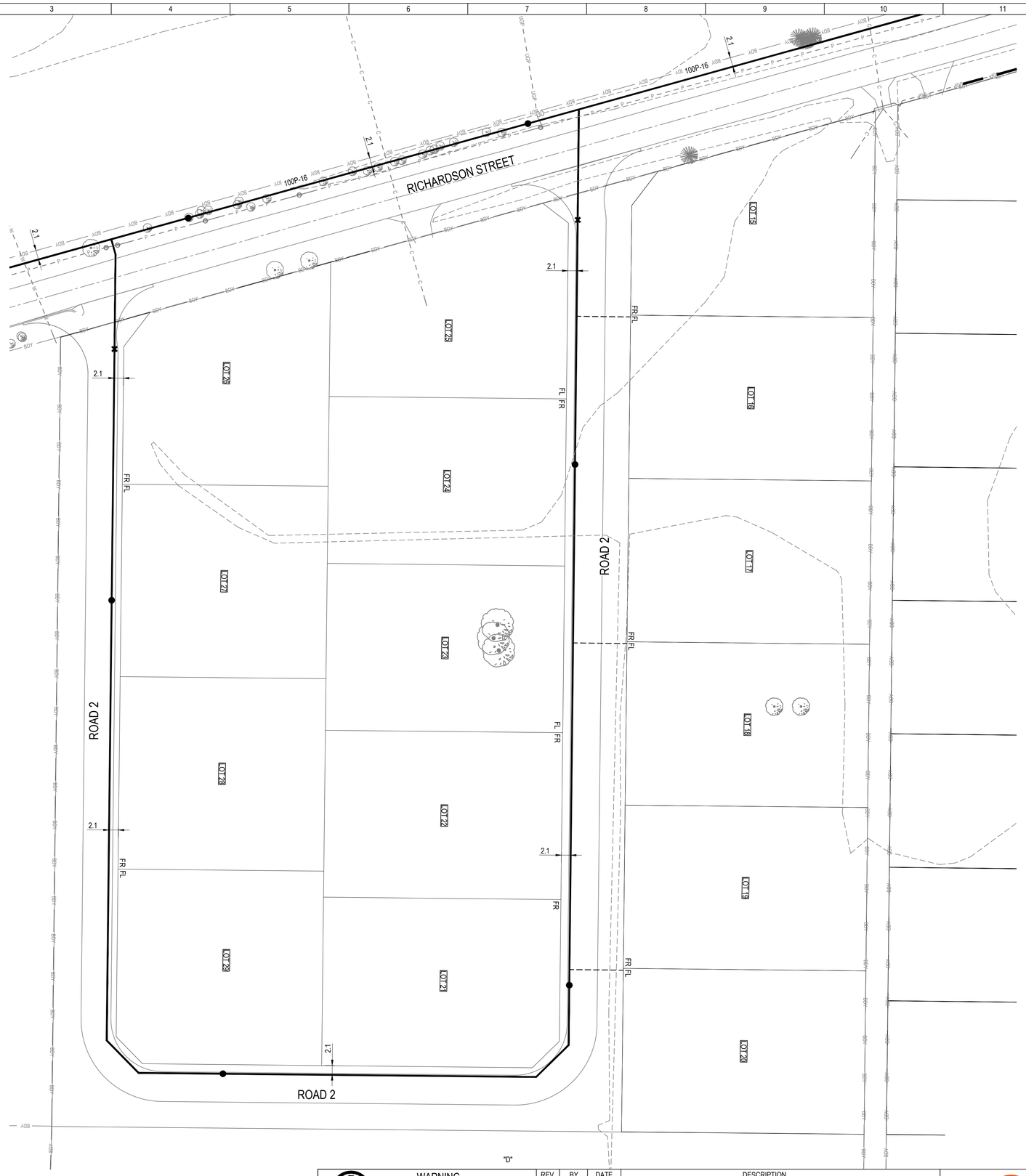
DIAL1100 BEFORE YOU DIG

REV.	BY	DATE	DESCRIPTION
A	WDJ/VT	2025.04.22	INITIAL DRAWING
B	WDJ/SG	2025.07.15	AMENDED TO WATER CORPORATION COMMENTS

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VPE Consulting

TITLE	WATER EXTENSION	DATE	2025.04.22
		REV	A
		DRAWN	WIKUS DE JAGER
PROJECT	LOT 14 RICHARDSON STREET, SERPENTINE	DESIGNED	VINCENT TRAN
		CHECKED	VINCENT TRAN
		A1 SCALE	AS NOTED ON DRAWING
DWG No.	PLN_101246-W-002-A	JOB REF.	PLN_101246



LEGEND

(EXISTING)

WATER
HYDRANT
DRAINAGE
COMM
UNDERGROUND POWER
OVERHEAD LOW VOLTAGE POWER
POWER POLE
CADASTRAL BOUNDARIES
CONTOURS
SPOT HEIGHTS AS PER SURVEY +29.33
WATER MONITORING WELL
TREE

(PROPOSED)

RETICULATION AREA BOUNDARY
LONG SINGLE OR DOUBLE SERVICE CONNECTION
WATER MAIN
HYDRANT
VALVE
FLUSHING POINT FP
DEFERRED "D"

ALL WORKS TO COMPLY WITH WATER CORPORATION CURRENT WATER RETICULATION DESIGN STANDARD No. 63

EXTENSION

LAY 1398m OF 100P-16
PROPOSED HYDRANTS : 12
PROPOSED VALVES : 5

NUMBER OF SERVICES

PRELAID SHORT SINGLE - 1
PRELAID LONG SINGLE - 2
PRELAID SHORT DUAL - 7
PRELAID LONG DUAL - 6
DEFERRED SHORT - 0
DEFERRED LONG - 2

NUMBER OF LOTS BEING SERVED - 31

NOTES:

1. ALL WATER MAINS SHALL BE INSTALLED ON 2.1m ALIGNMENT EXCEPT AS OTHERWISE AGREED.
2. ALL CHAINAGES SHALL BE IN METRES AND PIPE DIAMETERS IN DESIGNATED DN SIZE
3. WHERE NO PIPELINE BENDS ARE SHOWN, PIPES MAU BE DEFLECTED AT ELASTROMETRIC JOINT THAT IS SELECTED FOR THE METER LOCATION, WHEN VIEWED FROM THE ROAD FRONTAGE
4. FL & FR (FULLY PRELAID LEFT AND RIGHT) SHALL INDICATE THE SIDE OF THE LOT THAT IS SELECTED FOR THE METER LOCATION, WHEN VIEWED FROM THE ROAD FRONTAGE
5. THE LOCATIONS AND DETAILS OF FULLY PRELAID SERVICES SHALL BE IN ACCORDANCE WITH THE STANDARD DRAWINGS (SERIES BD62-8)
6. SINGLE AND DUAL LONG SERVICES ACROSS ROADS SHALL BE 25mm AND 32mm PE INSTALLED PRIOR TO ROAD CONSTRUCTION.
7. ALL SHORT AND LONG SINGLE AND DUAL SERVICES SHALL BE PRELAID INTO THE LOTS FOLLOWING THE ROAD CROSSING INSTALLATION WORK.
8. WHEREVER PRACTICABLE, RETICULATION MAINS SHALL EXTEND ACROSS THE FULL FRONTAGE OF LOTS SUBJECT TO THE SUBDIVISION AGREEMENT.
9. DESIGN AND CONSTRUCTION OF RETICULATION MAINS SHALL EXTEND A DISTANCE OF NO LESS THAN 6m AND NO MORE THAN 12m BEYOND THE CONDITIONAL APPROVAL BOUNDARY.

THIS PLAN IS ACCEPTED AS COMPLYING WITH OVERALL SCHEME PLANNING. 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 INSPECTORS. SEE DEVELOPER'S MANUAL FOR CONTACT DETAILS.

Wayne Smith — Jul 18, 2025 Date

FOR : MANAGER DEVELOPMENT SERVICING

PLAN NO. - OV71-103-002-01A
FILE NO. - 197343584
WAPC - 162084

ENLARGEMENT B WATER MAIN EXTENSION

10 0 10 20 30 Metres
SCALE 1:500

DIAL 1100 BEFORE YOU DIG

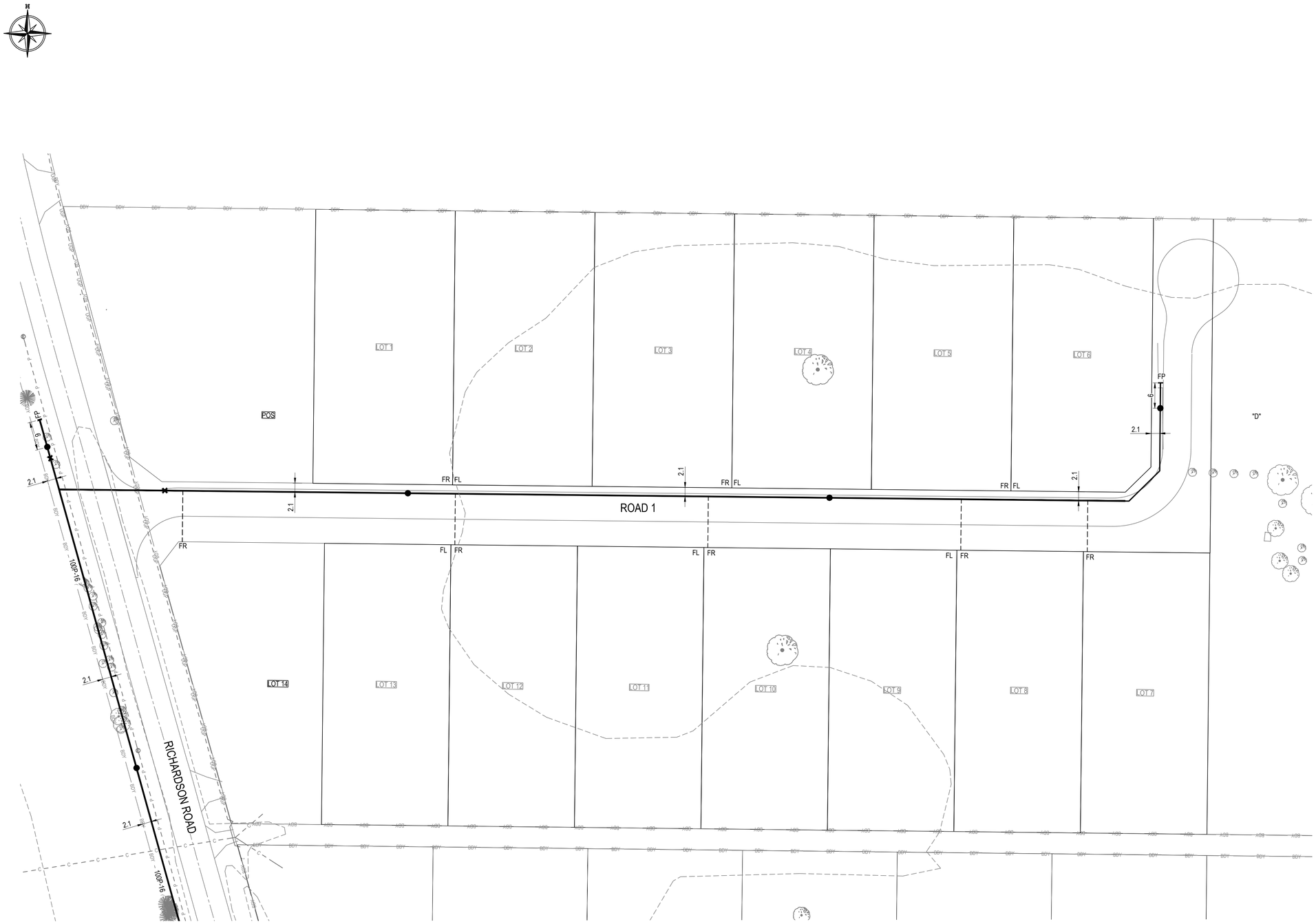
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REV.	BY	DATE	DESCRIPTION
A	WDJ/VT	2025.04.22	INITIAL DRAWING
B	WDJ/SG	2025.07.15	AMENDED TO WATER CORPORATION COMMENTS

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TITLE	WATER EXTENSION	DATE	2025.04.22
		REV	A
PROJECT	LOT 14 RICHARDSON STREET, SERPENTINE	DRAWN	WIKUS DE JAGER
		DESIGNED	VINCENT TRAN
		CHECKED	VINCENT TRAN
DWG No.	PLN_101246-W-003-A	A1 SCALE	AS NOTED ON DRAWING
		JOB REF.	PLN_101246



ENLARGEMENT C WATER MAIN EXTENSION

10 0 10 20 30 Metres

SCALE 1:500

LEGEND

(EXISTING)	
WATER	W
HYDRANT	W
DRAINAGE	D
COMMS	C
UNDERGROUND POWER	UGP
OVERHEAD LOW VOLTAGE POWER	P
POWER POLE	P
CADASTRAL BOUNDARIES	BDY
CONTOURS	29.33
TREE	
(PROPOSED)	
RETICULATION AREA BOUNDARY	
LONG SINGLE OR DOUBLE SERVICE CONNECTION	
WATER MAIN	
HYDRANT	
VALVE	
FLUSHING POINT	FP
DEFERRED	"D"

ALL WORKS TO COMPLY WITH WATER CORPORATION CURRENT WATER RETICULATION DESIGN STANDARD No. 63

EXTENSION

LAY 1398m OF 100P-16
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Wayne Smith — Jul 18, 2025 Date

FOR : MANAGER DEVELOPMENT SERVICING

PLAN NO. - OV71-103-003-01A
FILE NO. - 197343584
WAPC - 162084

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REV.	BY	DATE	DESCRIPTION
A	WDJ/VT	2025.05.13	INITIAL DRAWING
B	WDJ/SG	2025.07.15	AMMENDED TO WATER CORPORATION COMMENTS

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TITLE	ENLARGEMENT C WATER EXTENSION
PROJECT	LOT 14 RICHARDSON STREET, SERPENTINE
DWG No.	PLN_101246-W-004-A

DATE	2025.05.13
REV	A
DRAWN	WIKUS DE JAGER
DESIGNED	VINCENT TRAN
CHECKED	VINCENT TRAN
A1 SCALE	AS NOTED ON DRAWING
JOB REF.	PLN_101246