



ROCK EXCAVATION BY ELECTRICAL CONTRACTOR

- The electrical contractor shall:
- excavate electricity trenches to the depth required.
 - excavate street light foundations to a depth of 1500mm.

ATTN: CIVIL CONTRACTOR

THE COVER ABOVE THE STORM WATER MAIN AND THE SEWER MAIN HAS BEEN REVIEWED AT THE ELECTRICAL CROSSING POINTS. THE ELECTRICAL ROAD CROSSING CONDUITS ARE TO BE INSTALLED WITH 100mm (300mm PREFERRED) SEPARATION TO THE STORM WATER MAIN, 500mm (min) SEPARATION TO THE SEWER MAIN, 600mm COVER (min) ON THE FOOTPATH & 750mm COVER (min) UNDER THE ROAD. CONFLICTS ARE TO BE RESOLVED AS FOLLOWS:

- STN's 14 to 15 - 200mm COVER ON 375mm STORM WATER PIPE & 215mm COVER ON 2x375mm STORM WATER PIPES. INSTALL ELECTRICAL CONDUITS UNDER ALL STORM WATER MAINS. WHERE THE ELECTRICAL CONDUITS ARE INSTALLED UNDER THE STORM WATER MAINS, THEY SHALL BE GRADUALLY BROUGHT BACK UP TO A MAXIMUM DEPTH OF 1.4m AT THE ENDS.

"AS CONSTRUCTED" DOCUMENTS

The electrical contractor shall email the "as constructed" drawing, test results & closure documents to:

- contestable@energyq.com.au
- as.constructed@robrus.com.au

UNDERGROUND CABLE CERTIFICATION

All cables detailed on this drawing have been checked using the cable locator described below and are, according to measurements taken, on the correct alignment and at correct depths below the finished level, except as marked up. Alignments are subject to the accuracy of survey pegs present at the time of measurement.

Make: _____ Model: _____
 Serial No: _____ Date Cables Checked: ____/____/____
 Name of Person Who Conducted Checks: _____
 Certified (signature of checker): _____
 Phone No. of checker: _____

GENERAL NOTES

IN THE EVENT OF CONFLICT BETWEEN THIS WORKS PLAN AND DRAWINGS AND SPECIFICATIONS OF THE RELEVANT FUTURE ASSET OWNER, I.E. ENERGEX, ERGON, LOCAL AUTHORITY, DEPARTMENT OF TRANSPORT & MAIN ROADS, NBN™, ETC., THE DRAWINGS AND SPECIFICATIONS OF THE FUTURE ASSET OWNER SHALL TAKE PRECEDENCE. EXCEPTIONS APPLY WHERE RRA DESIGN DOCUMENTATION SPECIFY CLEARANCES, DEPTHS & SEPARATIONS GREATER THAN THE MINIMUM REQUIRED BY THE AUTHORITIES.

THE CONTRACTOR SHALL NOT ACCEPT A VERBAL INSTRUCTION FROM ANY PERSON TO DEPART FROM THE REQUIREMENTS OF THIS WORKS PLAN OR RRA GENERAL SPECIFICATION. ANY DEPARTURE FROM THE WORKS PLAN OR SPECIFICATION MUST FIRST BE AUTHORISED IN WRITING BY THE CONTRACT SUPERINTENDENT.

ELECTRICAL CONTRACTOR

THE WORKS DETAILED ON THIS DRAWING SHALL BE CONSTRUCTED IN ACCORDANCE WITH ROBIN RUSSELL & ASSOCIATES' GENERAL SPECIFICATION FOR INSTALLATION OF ELECTRICITY RETICULATION AND STREET LIGHTING - ISSUE 'A'.

CIVIL CONTRACTOR

THE INSTALLATION OF ALL ELECTRICAL CONDUITS SHALL BE SUPERVISED BY THE HOLDER OF AN ELECTRICAL WORK LICENCE - ELECTRICAL SAFETY ACT 2002.

ENERGEX CONDUITS AND TRANSFORMER SITE RETAINING WALLS SHALL BE INSTALLED STRICTLY IN ACCORDANCE WITH ENERGEX'S SPECIFICATIONS (SEE BELOW). THEY WILL BE INSPECTED FOR COMPLIANCE UPON COMPLETION.

WHERE ROAD-CROSSING CONDUITS ARE INSTALLED DEEPER THAN USUAL (UNDER CULVERTS OR PIPES) THEY MUST RISE TO A DEPTH OF NOT MORE THAN 1200mm AT EACH END. IF UNCERTAIN, SEEK ADVICE FROM RRA CONSTRUCTION COORDINATOR.

THE CIVIL CONTRACTOR SHALL INSTALL ENVELOPING CONDUITS UNDER RETAINING WALLS BEHIND PILLARS - TWO 100mm CONDUITS INTO EACH LOT (ONE FOR ELECTRICITY, ONE FOR COMMUNICATIONS), 500mm DEEP BEHIND THE PILLAR, NEAR GROUND LEVEL INSIDE THE LOT.

RELEVANT SPECIFICATIONS IN ENERGEX'S UNDERGROUND DISTRIBUTION CONSTRUCTION MANUAL ARE FOUND AT -

- SECTION C1: CONDUITS
- SECTION C2: EXCAVATION
- SECTION C3: TRANSFORMER SITES

THESE SECTIONS OF THE MANUAL CAN BE DOWNLOADED FROM THE FOLLOWING ENERGEX WEB SITE: https://swp.energex.com.au/service_providers/technical_docs/asp/technical_documents.asp

CIVIL ENGINEERS WHO HAVE REGISTERED FOR ACCESS TO THE FOLLOWING RRA WEBSITE MAY DOWNLOAD EXTRACTS FROM ENERGEX'S MANUAL AT: <http://www.robrus.com.au>

THE CIVIL CONTRACTOR SHALL ENSURE THAT ALL CONDUITS HAVE BEEN INSTALLED BEFORE CONSTRUCTING RETAINING WALLS, PATHS, DRIVEWAYS & WATER SERVICES. THE CIVIL CONTRACTOR SHALL PLEASE INFORM THE ELECTRICAL CONTRACTOR OF ANY "AS CONSTRUCTED" DEPARTURES FROM THE CIVIL DESIGN.

CARE: EXISTING STREET LIGHTS SHALL NOT BE RECOVERED UNLESS REPLACEMENT STREET LIGHTS WILL BE COMMISSIONED BEFORE NIGHTFALL. LIGHTING OF NEW OR ALTERED EXISTING ROADS MIGHT NOT COMPLY WITH SPECIFIED STANDARDS UNTIL NEW ROAD LIGHTING HAS BEEN COMMISSIONED. THE CIVIL CONTRACTOR SHALL APPLY APPROPRIATE RISK MANAGEMENT. E.G. WARNING SIGNS, SPEED RESTRICTIONS, TEMPORARY LIGHTING, ETC.

ON-SITE SERVICES CHECKS

ROBIN RUSSELL & ASSOCIATES GIVES NO WARRANTY REGARDING THE PRESENCE OR LOCATION OF BURIED SERVICES, INCLUDING NEWLY-INSTALLED SERVICES. "AS CONSTRUCTED" LOCATIONS MAY DIFFER FROM WHAT IS DRAWN ON THIS WORKS PLAN. CONTRACTORS SHALL BE RESPONSIBLE TO IDENTIFY AND LOCATE ALL BURIED SERVICES. INITIAL IDENTIFICATION CAN BE OBTAINED FROM:

DIAL BEFORE YOU DIG SERVICE

TELEPHONE 1100
FAX 1300 652 077

ON-LINE ENQUIRIES CAN BE MADE AT: <http://www.1100.com.au>.

HAVING DETERMINED WHICH SERVICES MAY BE PRESENT, ON-SITE LOCATIONS SHOULD THEN BE ARRANGED WITH RELEVANT SERVICE AUTHORITIES.

SEWERAGE AND WATER PLANS FOR THE SUBDIVISION MAY BE OBTAINED ON REQUEST FROM THE SUPERINTENDENT.

LEGEND: ELECTRICAL

- EXISTING UNDERGROUND CABLE / CONDUIT
- - - PROPOSED UNDERGROUND CABLE / CONDUIT
- - - FUTURE UNDERGROUND CABLE / CONDUIT
- END OF CONDUIT POINT / CONDUIT CAP
- BORED CONDUIT
- 12 STATION NUMBERS
- ⊙/⊙/⊙ PADMOUNT TRANSFORMER, EXISTING / PROPOSED / FUTURE
- ⊙/⊙/⊙ RING MAIN UNIT, EXISTING / PROPOSED / FUTURE
- ⊙/⊙/⊙ POLE TRANSFORMER, EXISTING / PROPOSED / FUTURE
- CABLE FAULT INDICATOR
- /■/■ SERVICE PILLAR, EXISTING / PROPOSED / FUTURE
- /■/■ LINK PILLAR, EXISTING / PROPOSED / FUTURE
- ||/||/|| LV LINKS (OPEN), EXISTING / PROPOSED / FUTURE
- ||/||/|| LV LINKS (CLOSED), EXISTING / PROPOSED / FUTURE
- EXISTING OVERHEAD ELECTRICITY MAINS
- PROPOSED OVERHEAD ELECTRICITY MAINS
- FUTURE OVERHEAD ELECTRICITY MAINS
- ⊙/⊙/⊙ HV POLE, EXISTING / PROPOSED / FUTURE
- ⊙/⊙/⊙ HV + LV POLE, EXISTING / PROPOSED / FUTURE
- /●/● LV POLE, EXISTING / PROPOSED / FUTURE
- ⊕/⊕/⊕ EARTH, EXISTING / PROPOSED / FUTURE
- ⊕/⊕/⊕ STREET LIGHT, EXISTING / PROPOSED / FUTURE
- EXISTING RATE 3 STREETLIGHT CABLE
- PROPOSED RATE 3 STREETLIGHT CABLE
- FUTURE RATE 3 STREETLIGHT CABLE
- ⊕/⊕/⊕ RATE 3 STREET LIGHT, EXISTING / PROPOSED / FUTURE
- /■/■ RATE 3 SWITCHBOARD, EXISTING / PROPOSED
- EXISTING CONSUMERS UNDERGROUND CABLE TO BE RECOVERED
- PROPOSED CONSUMERS UNDERGROUND CABLE TO BE RECOVERED
- /●/● CABLE, EXISTING / PROPOSED
- 32 - 50mm HD CONDUIT
- 80/100mm LD CONDUIT
- ⊙ 100mm WHITE ENERGEX COMMS. CONDUIT
- ⊙ 125mm LD CONDUIT
- △ ELECTRIC CABLE MARKER PLATE

ROAD LIGHTING CERTIFICATE

(Design documentation in accordance with the requirements of AS/NZS 1158.3.1 Appendix E)

ELEMENT DETAILS

Flag Lighting, as per Gatton planning Scheme V2, Outcome P40 Street Lighting and Signs, Solution A40.1, provided at intersections, cul-de-sac heads, bends and pedestrian crossings.

INSTALLATION ARRANGEMENT / GEOMETRY

- Arrangement - varies (refer drawing)
 - Mounting Height - 5.1m
 - Outreach - Integral
 - Upcast Angle - 0°
 - Spacing - N/A
- LUMINAIRE / LAMP DETAILS**
- Luminaire Type - Avenue L14 (IP66)
 - Lamp Type - 13.7W LED
 - Design Lumens - 1969
 - I Table No. - AVENUE II 4K 14W V2 210729PH.ole

LUMINAIRE / LAMP DETAILS

Origin of Luminaire Data - Sylvia Schreder

LIGHT TECHNICAL PARAMETERS

As per Lockyer Valley Regional Council specifications, as detailed in the Gatton Planning Scheme V2.

ROAD SURFACE REFLECTION CHARACTERISTICS

R3

COMPUTER PROGRAM DETAILS

- Name of Computer Program - Perfect Lite
- Source of program - Constant Energy
- Compliance - N/A

ROAD LIGHTING MAINTENANCE SCHEDULE

The maintenance factor and maintenance regime are the responsibility of the Asset Owner (Energy Queensland).

This design utilises the following maintenance factors:

0.7 for IP5x and 0.75 for IP6x luminaires as specified by Energy Queensland.

Note: Luminaires and lamps shall be replaced with exact equivalents.

Robt Russell
RPEQ 1546

CONSTRUCTION CONTACTS

- ELECTRICAL ENGINEER**
ROBIN RUSSELL & ASSOCIATES PTY LTD
DESIGNER
WILLIAM SCHARDT Ph: 0419 778 552
CONSTRUCTION COORDINATOR
SHANE HYDE Ph: 0419 021 772
- CIVIL ENGINEER**
van der Meer Consulting
CALVIN KIRK Ph: (07) 3021 6600
- SURVEYOR**
BPLANNED & SURVEYED
JIM GOODWIN Ph: (07) 3161 1501

ATTN: CIVIL CONTRACTOR

THE CIVIL WORKS SHALL BE CONSTRUCTED TO CONFORM TO ENERGEX SPECIFICATIONS, AS FOLLOWS:

- MAXIMUM CROSS SLOPE OF UNDERGROUND CABLE ALIGNMENT IS 1:4 & IS TO EXTEND A MINIMUM OF 1.6m FROM THE BOUNDARY.
- MAXIMUM GRADE AT PILLAR LOCATIONS IS 1:4 & IS TO EXTEND A MINIMUM OF 1.6m FROM THE BOUNDARY.
- FINISHED LEVELS AT ALL STREET LIGHT LOCATIONS SHALL BE AT THE SAME GRADE AS THE KERB WITH CONCRETE REINFORCEMENT WITHIN THE SWALE DRAIN, AS PER THE "TYPICAL LIGHT POLE PROTECTION DETAIL" SHOWN ON THE CIVIL DESIGN.
- ELECTRICITY PILLAR LOCATIONS SHALL BE SHAPED TO ACHIEVE A PAD 1.6m WIDE X 1.6m DEEP, AT A MAXIMUM GRADE OF 1:4 WITH CONCRETE REINFORCEMENT WITHIN THE SWALE DRAIN, AS PER THE "TYPICAL ELECTRICAL PILLAR PROTECTION DETAIL" SHOWN ON THE CIVIL DESIGN.

THE ABOVE ITEMS HAVE ENERGEX APPROVAL & SHALL NOT BE ALTERED WITHOUT PRIOR ENERGEX APPROVAL.

PLAN VIEW

SCALE 1:1000

20m 0 20 40 60m

1: 1000 (A1 - NOT REDUCED)

INSTALLATION OF RRA DESIGNED TELECOMMUNICATIONS CONDUITS

TELECOMS CONDUITS AND PITS SHALL BE SUPPLIED AND INSTALLED BY THE CIVIL AND ELECTRICAL CONTRACTORS AS SPECIFIED ON THE ASSOCIATED RRA WORKS PLAN.

IN RESIDENTIAL SUBDIVISIONS, TELECOMMUNICATIONS CONDUITS SHALL BE INSTALLED GENERALLY IN SHARED TRENCHES, DIRECTLY ABOVE THE ELECTRICAL CONDUITS.

IN COMMERCIAL SUBDIVISIONS OR OTHER SITUATIONS WHERE THIS IS NOT POSSIBLE, TELECOMMUNICATIONS CONDUITS SHALL BE INSTALLED IN A SEPARATE TRENCH ON THE SPECIFIED COMMUNICATIONS ALIGNMENT.

TELECOMMUNICATIONS INFRASTRUCTURE

- CONDUITS & PITS to be designed by: Robin Russell & Associates
- to be installed by: civil & electrical contractors
- to be owned by: NBNCo Limited
- TELECOMMUNICATIONS INFRASTRUCTURE to be provided by: NBNCo Limited

SITE INFORMATION

TOTAL NUMBER OF LOTS: 23
 PROPERTY DESCRIPTION: PROPOSED LOTS 108 - 111, 116 - 132, 144 - 145
 CANCELLING LOTS Lot 95 on CA311434 & Lot 96 on SP225226

SOURCE DOCUMENTS

CREATOR	DRAWING	DWG No.	REV	DATE
van der Meer Consulting	17/07/2022	X-BASE.dwg	-	22/08/2022
bplanned & surveyed	SURVEY	001762_Lot Calcs_ALL - MGA94	-	14/07/2022

DATE	REV	REVISION	APP.	DATE	REV	REVISION	APP.	CURRENT REVISION CHANGES:
26/08/2022	A	PRELIMINARY ISSUE	RR					

Robin Russell & Associates Pty. Ltd.
 CONSULTING ENGINEERS - ELECTRICAL

SUBDIVISION ELECTRICAL SERVICES
 204/6 Sabana Street, Stafford, QLD 4053
 Tel: (07) 3872 5556
 Fax: (07) 3872 5566
 Email: r@robrus.com.au
 www.robrus.com.au
 A.B.N. 78 010 589 661

COUNCIL	LOCKYER VALLEY	DWT REV.	V53-3 20210504	DESCRIPTION	ELECTRICITY RETICULATION - RESIDENTIAL
DESIGNED	B.Hyland	DRAWN	B.Hyland	CLIENT	Parklands at Adare Pty Ltd
CHECKED	W.Schardt	APPROVED	ROBIN RUSSELL RPEQ 1546		
DATE	26/08/2022	SIGNED	Robt Russell		

LOCATION: **PARK LAKE ADARE - STAGE 1 REDBANK CREEK ROAD ADARE**

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DRAWING No.	REVISION
D954-01	A
ENERGEX PROJECT No.	SHEET No.
S0107577	1 OF 6

OVERHEAD WORKS SCHEDULE

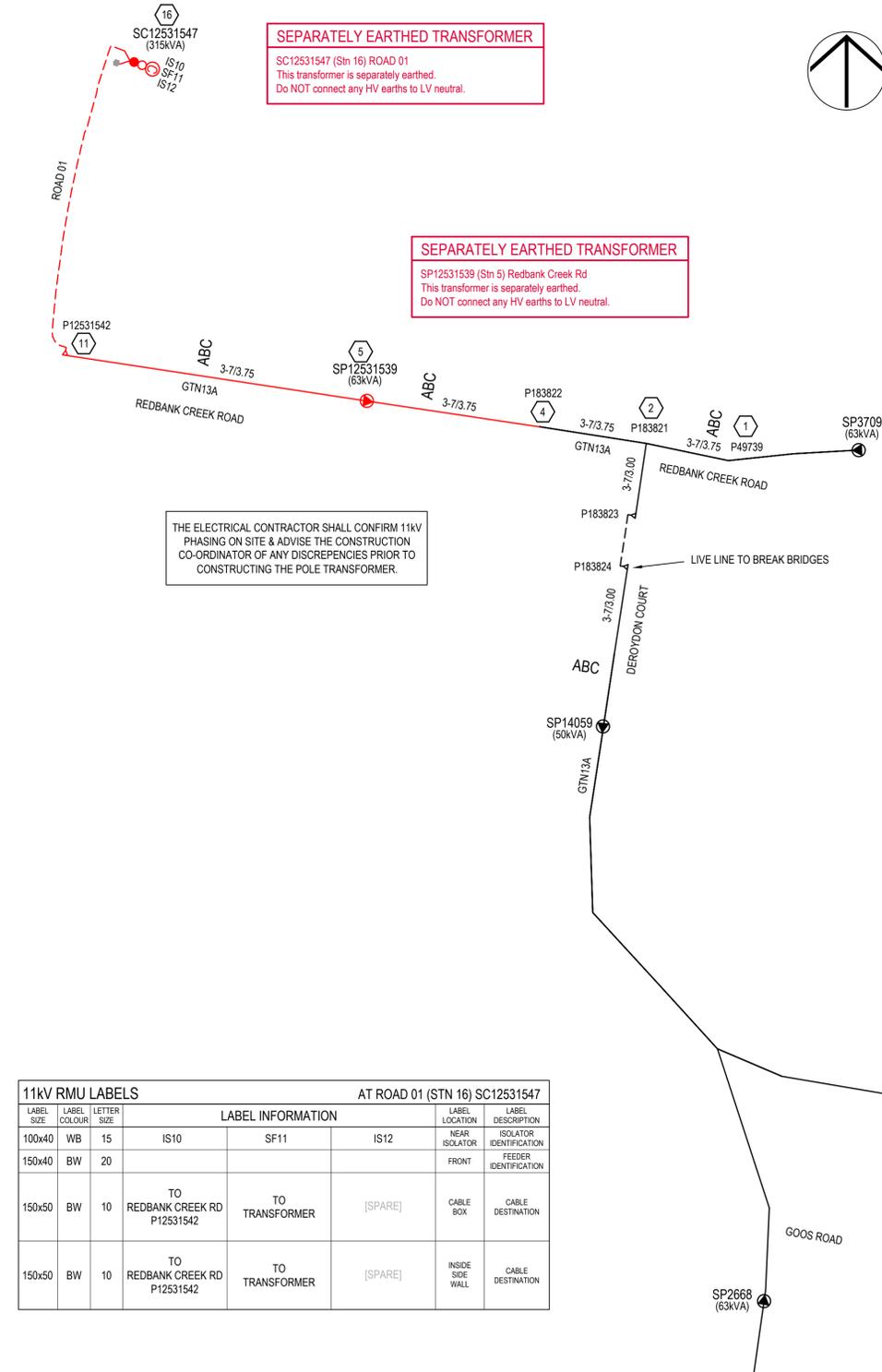
LOCATION	STN No.	SITE ID (POLE No.)	POLES										CONSTRUCTION			REMARKS						
			EDT ANG	EDT KN	SST KN	LST KN	EXISTING	RECOVER	ERECT	SINK	FOOT	COMP ID	ALIGN	EXISTING	RECOVER		ERECT	No.	KBS	ANG		
REDBANK CREEK ROAD	2	P183821	178°	0.57	2.57	4.11	P14/8					EX	EX	P01	EX	11PN 11T/S LVP	LVP	LVS LVTMA 8797 MARS IS95 MEN ADE	1 1 1 8 4 16 3 1 2	150° 850 2000	0° T 0°	7/3.75 HELICAL TERMS 7/3.75 COMPRESSION SLEEVES 7/3.75 CABLE LV LINKS (OPEN)
	3	P12531538	90°	0	1.47	2.40			P14/8-14	2.4	NAEF	P01	EX			11TD/N LVP			1 1	150° 2000	0°	
	4	P183822	268°	0.42	2.07	3.58	P14/12				EX	EX	P01	EX	11T/S	11T/S	11SC/S HVTMA		1 6 1 1 1	150° 500 1500	0°	7/3.75 HELICAL TERMS RECOVER EXIST GROUND STAY
	5	SP12531539	89°	0	1.71	2.80			P14/12-22	2.2	MDCF	P01	EX			11TD/N 11BP PAGE7-53-4 PAGE7-53-3 11ED03 11PT/63 S22443 LVPTU PTSEP ADE		1 1 1 2 1 1 1 1 1 1 2	150°		BRIDGE POST TO POLE 63KVA POLE MOUNTED TFMR TRANSPOSE LV BRIDGING	
	6	P184911					P12.5/8									LVP	LVP		1	150°	0°	
	7	P12531540	94°	0	1.96	3.20			P14/8-14	2.4	NAEF	P01	EX			11TD/N LVP			1 1	150° 2000	0°	
	8	P184912	268°	1.51	2.38	3.86	P12.5/12	P12.5/12	P14/8-14	2.4	NAEF	P01	EX			LVT	LVT	11TD/N LVT SET101-3 LVABC/T MEN ADE	1 1 1 1 1 2	150° 1800	0° T	REPLACE POLE 1.0m EAST EYEBOLT FOR X-ARM MOUNT ON EYEBOLT
	10	P12531541	88°	0	2.55	4.18			P14/8-14	2.4	NAEF	P01	3.0			11TD/N LVABC/SU4			1 1	150° 1600	0°	
	11	P12531542	88°	4.88	9.58	19.14			P14/12-22	2.2	MDCF	P01	3.0			11TC/S HVTMA 11PTTRIPXW 11BRAL/240XL LVABC/T LVT4C240HV LVABC/DS2 CGES MEN ADE		1 3 1 3 1 1 1 1 1 2	150° 1400	T	7/3.75 HELICAL TERMS LVABC FUSE LINKS (CLOSED)	

NOTES:
1. THE CONTRACTOR SHALL ENSURE THAT FINISHED LEVELS ARE COMPLETE OR PROVIDED BY SURVEY PRIOR TO THE INSTALLATION OF ANY POLES.
2. THE CONTRACTOR SHALL KEEP RECORDS OF ANY FINISHED LEVELS PROVIDED BY THE SURVEYOR OR CIVIL CONTRACTOR.

OVERHEAD CONDUCTOR SCHEDULE

LOCATION	STATION FROM - TO	VOLTS	EXISTING	TRANSFER	RECOVER	ERECT	No OF SPANS	DIST (m)	STRING TABLE	M.E.S.	SAG SPAN FROM - TO	SAG (m)		CONDUCTOR LENGTH (m)		REMARKS
												15°	30°	NEW	REC	
REDBANK CREEK ROAD	1 2	LV	4-7/3.75	4-7/3.75			1	67	T498	52.3	1 2	2.24	2.37			SAG TO EXISTING TENSION
	2 4	11KV	3-7/3.75	3-7/3.75			3	126	T564	42.00	2 4	1.04	1.15			SAG TO EXISTING TENSION
	2 4	LV	4-7/3.75	4-7/3.75			2	84	T498	42.00	2 4	0.92	1.04			SAG TO EXISTING TENSION
	4 11	11KV				3-7/3.75	5	294	T440	63.93	10 11	2.22	2.36	908		
	4 8	LV	4-7/3.75	4-7/3.75			3	151	T498	51.00	4 5	1.25	1.37			SAG TO EXISTING TENSION
	8 11	LV					1-LVABC95	2	143	T440	72.02	10 11	2.22	2.36	147	

NOTES:
1. OVERHEAD CABLES SHALL BE SUPPLIED BY THE ELECTRICAL CONTRACTOR.
2. FOR EVERY SPAN WHICH IS RECONDUCTORED OR RETENSIONED, THE ELECTRICAL CONTRACTOR SHALL RECORD THE SPAN HEIGHT AND AMBIENT TEMPERATURE IN THE REMARKS COLUMN.



11kV RMU LABELS AT ROAD 01 (STN 16) SC12531547

LABEL SIZE	LABEL COLOUR	LETTER SIZE	LABEL INFORMATION			LABEL LOCATION	LABEL DESCRIPTION
100x40	WB	15	IS10	SF11	IS12	NEAR ISOLATOR	ISOLATOR IDENTIFICATION
150x40	BW	20				FRONT	FEEDER IDENTIFICATION
150x50	BW	10	TO REDBANK CREEK RD P12531542	TO TRANSFORMER	[SPARE]	CABLE BOX	CABLE DESTINATION
150x50	BW	10	TO REDBANK CREEK RD P12531542	TO TRANSFORMER	[SPARE]	INSIDE SIDE WALL	CABLE DESTINATION

11kV / LV POLE LABEL AT REDBANK CREEK ROAD (STN 11) P12531542

CIRCUIT DIRECTION	LABEL SIZE	LABEL COLOUR	LETTER COLOUR	LETTER SIZE	LABEL INFORMATION	
CABLE TOWARDS STN 16	300x100	KOLANA BRONZE	SILVER	AS PER LABELING MANUAL 6450-44	11KV CABLE - TO ROAD 01 SC12531547 - IS10	
CABLE TOWARDS STN 13	300x100	KOLANA BRONZE	SILVER	AS PER LABELING MANUAL 6450-44	LV CABLE - TO ROAD 01 LP12531544 AND SERVICES	

EXISTING AND PROPOSED 11kV SCHEMATIC
SCALE 1:2500
ALL NEW HV CABLES TO BE 3 x 1c 240mm Al TRIPLEX (UNLESS NOTED OTHERWISE)

OVERHEAD SERVICE SCHEDULE

LOCATION	STN No.	HOUSE / STN No.	EXISTING	TRANSFER	RECOVER	ERECT	No. OF SPANS	DIST (m)	SAG SPAN	SAG (m) 25°	TOTAL CONDUCTOR LENGTH (m)	FITTINGS					REMARKS
												MAINS BOX	CHANGE P.O.A	FUSE SIZE	Ø	SERVICE FITTING CODE OR IIN	
REDBANK CREEK ROAD	8	#62	2B25	2B25			1	37	37	1.32	37	N	N	80A	B	T2B25WAN80	
	8	#66	4TT16		4TT16	4B25	1	37	37	1.71	41	N	N	80A	ABC	N4B25WAN80	

NOTES:
1. OVERHEAD SERVICE CABLES SHALL BE SUPPLIED BY THE ELECTRICAL CONTRACTOR.

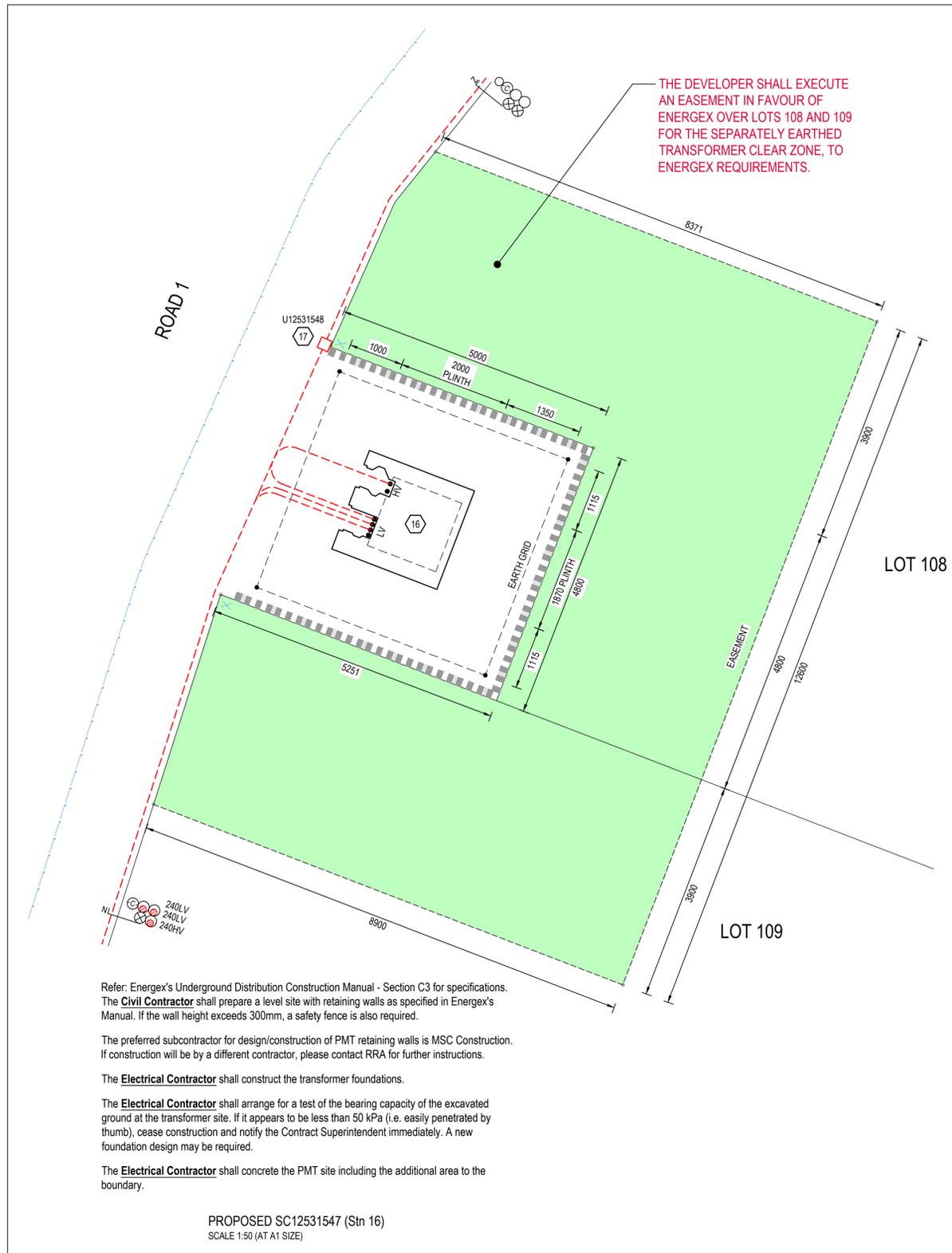
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SUBDIVISION ELECTRICAL SERVICES 2016 Sabana Street, Shalford, QLD 4053 Tel: (07) 3872 5555 Fax: (07) 3872 5556 Email: m@robruss.com.au www.robruss.com.au A.B.N. 78 010 589 661	COUNCIL LOCKYER VALLEY DWT REV. V53-3 20210504	DESIGNED B.Hyland DRAWN B.Hyland	DESCRIPTION: ELECTRICITY RETICULATION - RESIDENTIAL
ROBIN RUSSELL RPEQ 1546	CHECKED W.Schardt APPROVED	DATE 26/08/2022 SIGNED <i>Rob Russell</i>	CLIENT: Parklands at Adare Pty Ltd

LOCATION: PARK LAKE ADARE - STAGE 1 REDBANK CREEK ROAD ADARE	DRAWING No. D954-02	REVISION A
ENERGEX PROJECT No. S0107577	SHEET No. 2 OF 6	

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Robin Russell
 & ASSOCIATES PTY. LTD.
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COUNCIL	LOCKYER VALLEY	DWT REV.	V53-3 20210504
COUNCIL REF			
DESIGNED	B.Hyland	DRAWN	B.Hyland
CHECKED	W.Schardt	APPROVED	ROBIN RUSSELL RPEQ 1546
DATE	26/08/2022	SIGNED	<i>Robin Russell</i>

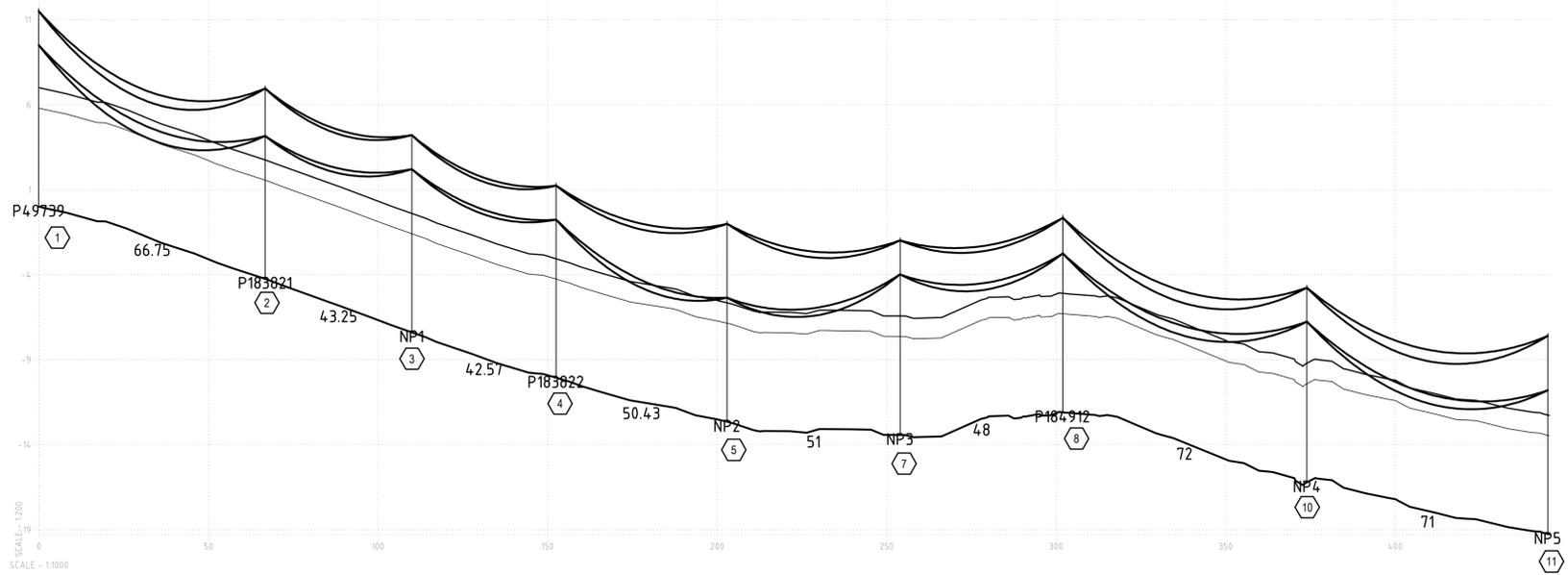
DESCRIPTION	ELECTRICITY RETICULATION - RESIDENTIAL
CLIENT	Parklands at Adare Pty Ltd

LOCATION
**PARK LAKE ADARE - STAGE 1
 REDBANK CREEK ROAD
 ADARE**

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A1

DRAWING No.	REVISION
D954-05	A
ENERGEX PROJECT No.	SHEET No.
S0107577	5 OF 6



Circuit ID	L pole	L aft ht	R pole	R aft ht	Conductor	Sag	Span	Temperature	MES/RS	Tension	Tension Units	Segment	Actual no wind tens	Min clearance @ Ch	Blowout
standard	P49739	11.5	P183821	11.2	MA	2.52	66.75	15	54.64	564	Table	SS1	0.459	8.59 @ 30	2.599
hot	P49739	11.5	P183821	11.2	MA	3.13	66.75	75	54.64	564	Table	SS1	0.37	7.99 @ 31	2.599
standard	P183821	11.2	NP1	11.6	MA	1.06	43.25	15	54.64	564	Table	SS1	0.459	10.32 @ 86.75	1.089
hot	P183821	11.2	NP1	11.6	MA	1.31	43.25	75	54.64	564	Table	SS1	0.37	10.07 @ 86.75	1.089
standard	NP1	11.6	P183822	11.3	MA	1.02	42.57	15	54.64	564	Table	SS1	0.459	10.63 @ 131	1.056
hot	NP1	11.6	P183822	11.3	MA	1.27	42.57	75	54.64	564	Table	SS1	0.37	10.38 @ 131	1.056
standard	P49739	9.5	P183821	8.4	MA	2.23	66.75	15	54.64	498	Table	SS2	0.519	6.5 @ 33	2.359
hot	P49739	9.5	P183821	8.4	MA	2.9	66.75	75	54.64	498	Table	SS2	0.4	5.83 @ 33	2.359
standard	P183821	8.4	NP1	9.6	MA	0.93	43.25	15	54.64	498	Table	SS2	0.519	7.97 @ 81.75	0.985
hot	P183821	8.4	NP1	9.6	MA	1.21	43.25	75	54.64	498	Table	SS2	0.4	7.71 @ 82.75	0.985
standard	NP1	9.6	P183822	9.3	MA	0.91	42.57	15	54.64	498	Table	SS2	0.519	8.74 @ 131	0.956
hot	NP1	9.6	P183822	9.3	MA	1.18	42.57	75	54.64	498	Table	SS2	0.4	8.47 @ 131	0.956
standard	P183822	9.3	NP2	7.3	MA	1.27	50.43	15	49.86	498	Table	SS3	0.519	6.81 @ 187.57	1.374
hot	P183822	9.3	NP2	7.3	MA	1.72	50.43	75	49.86	498	Table	SS3	0.385	6.43 @ 186.57	1.374
standard	NP2	7.3	NP3	9.45	MA	1.3	51	15	49.86	498	Table	SS3	0.519	7.15 @ 221	1.395
hot	NP2	7.3	NP3	9.45	MA	1.75	51	75	49.86	498	Table	SS3	0.385	6.72 @ 230	1.395
standard	NP3	9.45	P184912	9.35	MA	1.15	48	15	49.86	498	Table	SS3	0.519	7.89 @ 280	1.235
hot	NP3	9.45	P184912	9.35	MA	1.55	48	75	49.86	498	Table	SS3	0.385	7.49 @ 280	1.235
standard	P183822	11.3	NP2	11.65	MA	1.12	50.43	15	61.41	440	Table	SS4	0.588	10.49 @ 181.57	1.189
hot	P183822	11.3	NP2	11.65	MA	1.46	50.43	75	61.41	440	Table	SS4	0.452	10.15 @ 180.57	1.189
standard	NP2	11.65	NP3	11.45	MA	1.15	51	15	61.41	440	Table	SS4	0.588	10.39 @ 233	1.213
hot	NP2	11.65	NP3	11.45	MA	1.49	51	75	61.41	440	Table	SS4	0.452	10.06 @ 232	1.213
standard	NP3	11.45	P184912	11.45	MA	1.01	48	15	61.41	440	Table	SS4	0.588	10.08 @ 280	1.076
hot	NP3	11.45	P184912	11.45	MA	1.32	48	75	61.41	440	Table	SS4	0.452	9.78 @ 280	1.076
standard	P184912	11.45	NP4	11.45	MA	2.29	72	15	61.41	440	Table	SS4	0.588	8.83 @ 335	2.428
hot	P184912	11.45	NP4	11.45	MA	2.98	72	75	61.41	440	Table	SS4	0.452	8.15 @ 335	2.428
standard	NP4	11.45	NP5	11.65	MA	2.22	71	15	61.41	440	Table	SS4	0.588	9.34 @ 400	2.357
hot	NP4	11.45	NP5	11.65	MA	2.89	71	75	61.41	440	Table	SS4	0.452	8.72 @ 400	2.357
standard	P184912	9.35	NP4	9.45	LVABC95	2.29	72	15	71.51	440	Table	SS5	3.761	6.78 @ 335	2.043
hot	P184912	9.35	NP4	9.45	LVABC95	2.85	72	80	71.51	440	Table	SS5	3.018	6.22 @ 335	2.043
standard	NP4	9.45	NP5	8.45	LVABC95	2.22	71	15	71.51	440	Table	SS5	3.761	6.88 @ 412	1.986
hot	NP4	9.45	NP5	8.45	LVABC95	2.77	71	80	71.51	440	Table	SS5	3.018	6.33 @ 411	1.986

ID	Conductor	RS	Tension	Temperatures	Poles
SS1	3 x MA - Mars	54.64	564 (Table)	uplift (5); standard (15); warm (35); hot (75)	P49739, P183821, NP1, P183822
SS2	4 x MA - Mars	54.64	498 (Table)	uplift (5); standard (15); warm (35); hot (75)	P49739, P183821, NP1, P183822
SS3	4 x MA - Mars	49.86	498 (Table)	uplift (5); standard (15); warm (35); hot (75)	P183822, NP2, NP3, P184912
SS4	3 x MA - Mars	61.41	440 (Table)	uplift (5); standard (15); warm (35); hot (75)	P183822, NP2, NP3, P184912, NP4, NP5
SS5	1 x LVABC95 - LVABC95	71.51	440 (Table)	uplift (5); standard (15); warm (35); hot (80)	P184912, NP4, NP5

DATE 26/08/2022	REV A	REVISION PRELIMINARY ISSUE	APP. RR	DATE	REV	REVISION	APP.	CURRENT REVISION CHANGES:	<p>Robin Russell & ASSOCIATES PTY. LTD. CONSULTING ENGINEERS - ELECTRICAL</p>	<p>SUBDIVISION ELECTRICAL SERVICES 2046 Sabana Street, Stafford, QLD 4053</p> <p>Tel: (07) 3872 5556 Fax: (07) 3872 5566 Email: m@robusr.com.au www.robusr.com.au A.B.N. 78 010 589 661</p>	COUNCIL LOCKYER VALLEY	DWT REV. V53-3 20210504	DESCRIPTION ELECTRICITY RETICULATION - RESIDENTIAL	LOCATION PARK LAKE ADARE - STAGE 1 REDBANK CREEK ROAD ADARE	DRAWING No. D954-06	REVISION A
DESIGNED B.Hyland	DRAWN B.Hyland	CHECKED W.Schardt	APPROVED ROBIN RUSSELL RPEQ 1546	DATE 26/08/2022	SIGNED <i>Rob. Russell</i>	CLIENT Parklands at Adare Pty Ltd	ENERGEX PROJECT No. S0107577	SHEET No. 6 OF 6								

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