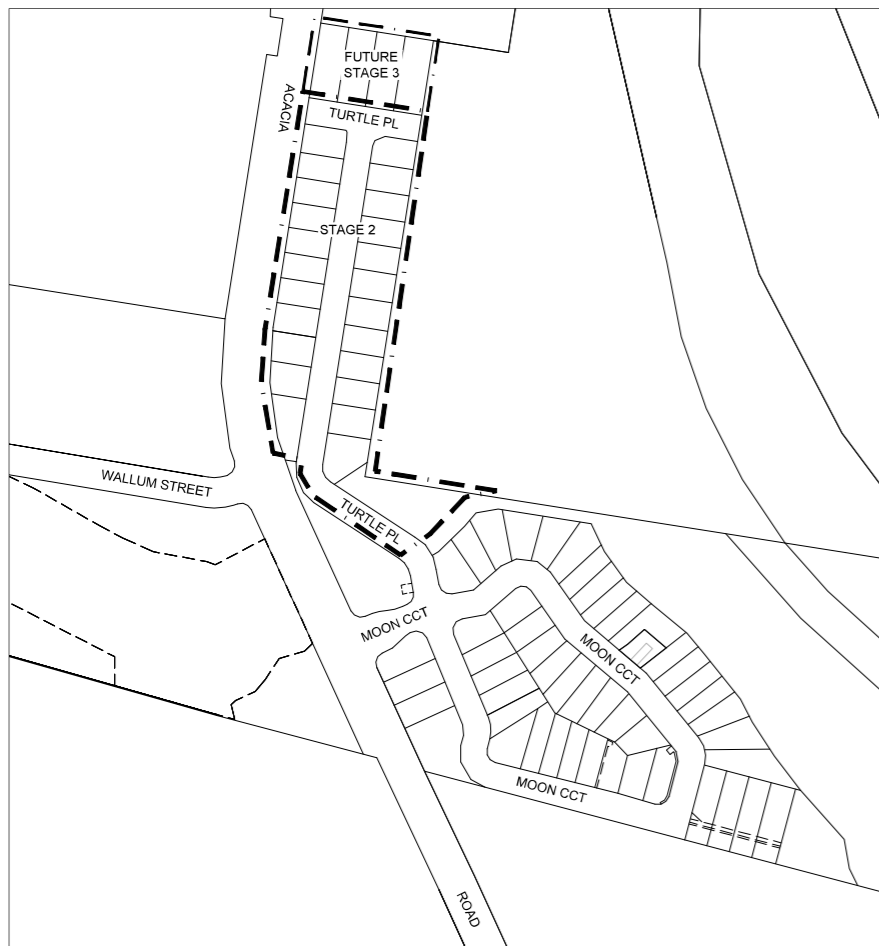


STRETTON RESERVE STAGE 2



KEY MAP
N.T.S.

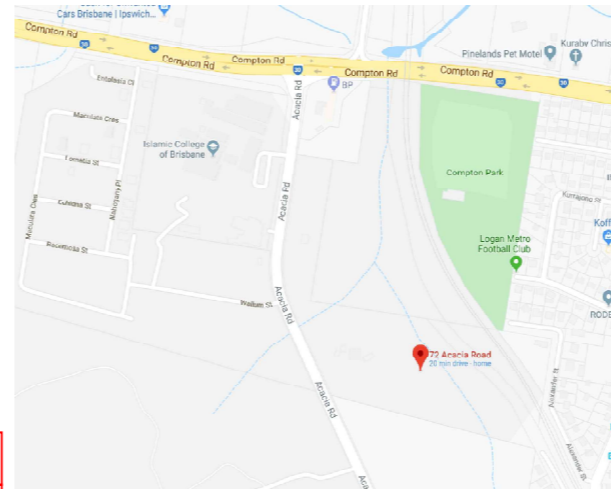
UNDERGROUND SERVICES IDENTIFICATION
WORK CREWS WHO WILL BE EXCAVATING AT THIS SITE ARE ADVISED TO CONTACT THE 'DIAL BEFORE YOU DIG' SERVICE TO DETERMINE THE EXTENT OF EXISTING UNDERGROUND SERVICES AND THE REQUIREMENTS OF THE APPROPRIATE SERVICE PROVIDERS. IT IS THE RESPONSIBILITY OF THE WORKS CREWS TO HAVE ALL EXISTING SERVICES AFFECTED BY THESE WORKS LOCATED ON SITE TO AVOID ANY DAMAGE DURING EXCAVATION WORKS. WHERE SERVICES HAVE BEEN SHOWN ON THE PLAN, THESE LOCATIONS ARE INDICATIVE ONLY AND NO WARRANTY IS IMPLIED AS TO THEIR ACCURACY.

DIAL 1100 BEFORE YOU DIG
DIAL BEFORE YOU DIG SERVICE
PHONE - 1100
WEB - www.1100.com.au
YOUR REQUEST SHOULD BE FORWARDED 5 WORKING DAYS BEFORE PLANNED EXCAVATION DATE.

**FINAL/PARTIAL-
AS CONSTRUCTED
CV ENERGY SERVICES**

PHONE (07) 3622 4333 FAX (07) 3622 4334

NAME: DARREN JORDAN
SIGN: *DJ*
3/02/2021 12:30:08 PM



LOCALITY PLAN
N.T.S.

LEGEND	
LINES	SYMBOLS
--- Boundary of Works	□ Electrical Pillar
— Electrical Overhead - Exist	■ Link Pillar
— Electrical Overhead - New	■ Commercial / Industrial Pillar
— Electrical Overhead - Recover / Future	□ Electrical Pit
- - - Electrical Underground - Exist	□ Underground Joint
- - - Electrical Underground - New	● Pole - LV Only
- - - Electrical Underground - Recover / Future	○ Pole - HV Only
— Consumers Overhead - New	⊙ Pole - HV & LV
— Consumers Underground - New	⊙ Pole - HV, Future LV
— RP Boundary	⊙ Pole - LV, Future HV
— Easement Boundary	⊙ Pole Transformer
— Kerbline	⊙ Pole Termination - LV Only
Railway	⊙ Pole Termination - HV Only
— Retaining Wall	⊙ Pole Termination - HV & LV
— S Sewer Main	⊙ Earth Electrode
— RM Sewer Rising Main	⊙ Pole Stay - Ground / Sidewalk
— W Water Main	⊙ Pole Stay - Aerial
— SW Stormwater	⊙ Padmount Transformer
— RW Rainwater	⊙ Ring Main Unit
→ Open Drain / Swale	○ Conduit - 40mm
— Gas	○ Conduit - 100mm
— T Telecommunications	⊙ Conduit - 125mm
— / Fence	⊙ Conduit - Energex Communications
— Zero-lot Boundary	⊙ Street Light - LED
	⊙ Street Light - High Pressure Sodium 70W
	⊙ Street Light - High Pressure Sodium 100W
	⊙ Street Light - High Pressure Sodium 150W
	⊙ Street Light - High Pressure Sodium 250W
	⊙ Street Light - High Pressure Sodium 400W
	⊙ Street Light - Mercury Vapour 50W
	⊙ Street Light - Mercury Vapour 80W
	⊙ Street Light with Aeroscreen
	⊙ LV Disconnection Links - Open
	⊙ LV Disconnection Links - Closed
	⊙ HV Switch - Open
	⊙ HV Switch - Closed
	⊙ Drop Out Fuses - Open
	⊙ Drop Out Fuses - Closed
	⊙ Station Number
	⊙ Remove
	⊙ Phasing
	⊙ 'E' Kerb Marker
	⊙ Driveway

ENERGEX STANDARDS
THE CONTRACTOR IS TO READ THIS PLAN TOGETHER WITH ALL RELEVANT ENERGEX STANDARDS, TECHNICAL SPECIFICATIONS AND MANUALS. THESE DOCUMENTS INCLUDE, BUT ARE NOT LIMITED TO:

- UNDERGROUND DISTRIBUTION CONSTRUCTION MANUAL
- OVERHEAD CONSTRUCTION MANUAL
- OVERHEAD DESIGN MANUAL
- NETWORK LABELLING AND SIGNAGE MANUAL
- QLD PUBLIC LIGHTING CONSTRUCTION MANUAL

CONSUMERS INSTALLATIONS SHALL COMPLY WITH AS/NZS 3000:2018 - SAA WIRING RULES.

FOR DETAILS OF TRENCH CROSS-SECTIONS, REFER TO ENERGEX UNDERGROUND DISTRIBUTION CONSTRUCTION MANUAL.

GENERAL NOTES

- NO OTHER SERVICES TO ENCOACH INTO THE STANDARD UNDERGROUND ELECTRICITY CORRIDOR OF 0mm - 900mm FROM RP BOUNDARY.
- ALL CABLES TO BE INSTALLED IN CONDUIT WITHIN THE STANDARD ELECTRICITY ALIGNMENT ALLOCATED BY THE LOCAL COUNCIL. WHERE CONDUITS VARY FROM THIS AND AT ROAD CROSSINGS, PROTECTIVE STRIP IS TO BE INSTALLED, WHERE PRACTICAL ELECTRICITY CABLES SHALL NOT BE CLOSER THAN 250mm TO THE REAL PROPERTY BOUNDARY.
- A, B OR C WHERE SHOWN BESIDE LV PILLARS DENOTES SERVICE PHASING.
- THE CONTRACTOR SHALL MEASURE ACTUAL CABLE LENGTHS REQUIRED ON SITE AFTER INSTALLATION OF CONDUITS THEN NOTIFY ENERGEX/SUPPLIER WHEN CONFIRMING CABLE ORDER.
- ALL BENDS INSTALLED ON 100mm AND 125mm RETICULATION CONDUITS MUST BE 180mm RADIUS UNLESS OTHERWISE SPECIFIED.
- CONTRACTOR TO SUPPLY ALL LABELS AND SITE ID NUMBERS TO ENERGEX SPECIFICATION.
- WHEN CROSS ROAD CONDUIT FINISHES OPPOSITE A TRUNCATION PEG, PROPERTY SIDE OF TRENCH TO BE 300mm ALIGNMENT FROM RP.
- CIVIL CONTRACTOR TO INSTALL ALL ROAD CROSSING CONDUITS.
- ELECTRICAL CONTRACTOR TO INSTALL FOOTPATH CONDUITS.
- CO-ORDINATE CONDUIT INSTALLATION WITH NBN CONTRACTORS.
- ELECTRICITY PILLARS TO HAVE 600mm EXCLUSION ZONE FROM ALL OTHER SERVICES.
- CIVIL CONTRACTOR TO INSTALL CONSUMER LEAD IN CONDUITS FOR ELECTRICAL AND NBN COMMS PRIOR TO CONSTRUCTION OF RETAINING WALLS INTO ROAD RESERVE IN ACCORDANCE WITH AS/NZS 3000:2018 AND OTHER AUTHORITY REQUIREMENTS.
- ALL ELECTRICAL AND TELECOMMUNICATION INFRASTRUCTURE ADJACENT TO ZERO LOT BOUNDARIES ARE TO BE ALIGNED OR OFFSET FROM BOUNDARY LINE. IF THE PILLAR IS WITHIN 1M OF DRIVEWAY PROTECTIVE BOLLARDS ARE TO BE INSTALLED. STREETLIGHTS TO BE OFFSET 1M FROM BOUNDARY LINE CLEAR OF FUTURE DRIVEWAYS.
- ENERGEX SUPPLY AGREEMENT AND AUTHORITY TO CONSTRUCT TO BE IN PLACE PRIOR TO STARTING WORKS ON ENERGEX NETWORK

LOCATION OF UTILITIES
THE CONTRACTOR IS RESPONSIBLE FOR CONFIRMING ALL UNDERGROUND SERVICES PRIOR TO COMMENCING WORK AT THE SITE, AND IS RESPONSIBLE FOR THE REPAIR OF DAMAGE TO UNDERGROUND OR OVERHEAD UTILITY ASSETS, ARISING FROM THESE WORKS. CONTACT DIAL BEFORE YOU DIG.

PROPOSED COMMISSIONING PLAN
TENTATIVE ONLY - SUBJECT TO AMENDMENT BY ENERGEX OUTAGE CO-ORDINATOR

LV SWITCHING x 1

- LV**
- OPEN SC2216656 FS3 - TURTLE PLACE
 - PERFORM LV WORKS AS REQUIRED
 - CLOSE SC2216656 FS3 - TURTLE PLACE

- POLARITY CHECK AT EACH POINT OF SUPPLY.
- TEST AND COMMISSION ALL NEW STREET LIGHTING.

CIVIL CONTRACTOR NOTE
CIVIL CONTRACTOR TO ENSURE ALL CONDUITS ARE INSTALLED PRIOR TO CONSTRUCTION OF FOOTPATHS, DRIVEWAYS AND RETAINING WALLS (WHERE REQUIRED).

Justin Read

Digitally signed by Justin Read
DN: cn=Justin Read, o=Justin Read, ou=AU Australia, ou=AU Australia, ou=Consulting, ou=Strategic Engineering Services Pty Ltd, email=jr@consulting.com.au
Reason: I certify this document as a Registered Professional Engineer of Queensland (RPEQ 7727)
Location:
Date: 2020-08-26 10:47+10:00

Sheet Index	
Sheet No.	Description
1	Overall Plan
2	Workshop
3	Schedules & Material Lists
4	LV Schematic
5	Streetlighting Certification

STREETLIGHTING CERTIFICATION
ROAD LIGHTING CERTIFIED TO COMPLY WITH AS/NZS 1158.1.1:2005 FOR V-CATEGORY AND AS/NZS 1158.3.1:2005 FOR P-CATEGORY. THE LIGHTING DESIGN IS BASED UPON THE FOLLOWING MAINTENANCE SCHEDULE:

- LAMP REPLACEMENT AT 48 MONTH INTERVALS INCLUDING CLEANING & INSPECTION OF LUMINAIRE.
- VEGETATION TO BE KEPT CLEAR OF LUMINAIRES.
- INSPECTION PATROLS & SPOT LAMP REPLACEMENT TO MAINTAIN SERVICE AVAILABILITY AT MIN. 95%.
- LUMINAIRES AND LAMPS TO BE REPLACED WITH EXACT EQUIVALENTS.

TURTLE PLACE: CATEGORY P5

J. READ RPEQ No. 7727

Registered Professional Engineer of Queensland
MR JUSTIN READ
RPEQ 7727
DIV: ELECTRICAL
Signature: *Justin Read* Date: 26.08.2020

Related Projects		
Consultant	Consultant Reference/ Drawing Number	Energex Reference Number
CV Services	C10247-1-1-A	S4900074

Source Drawings		
File Name	Drawing Owner	Date Received
19-0006 X Base Design	Peak Urban	16/10/2019

FOR CONSTRUCTION

REV	DATE	DETAILS	REV	DATE	DETAILS
PR1	22/04/2020	PRELIMINARY DESIGN			
A	24/07/2020	COUNCIL ENDORSED, REM STG 3, FOR CONSTRUCT.			
B	24/08/2020	ENERGEX PROJECT NUMBER UPDATED.			

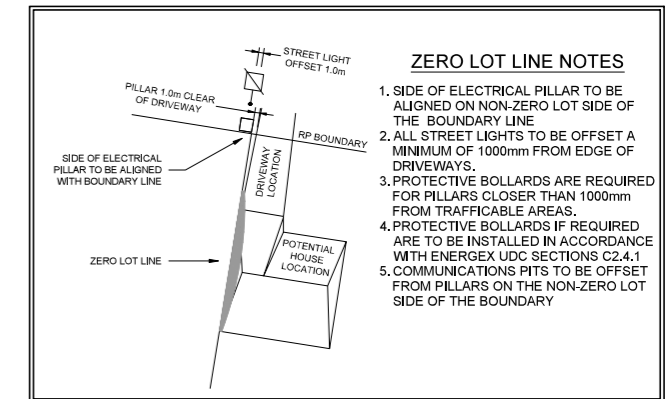
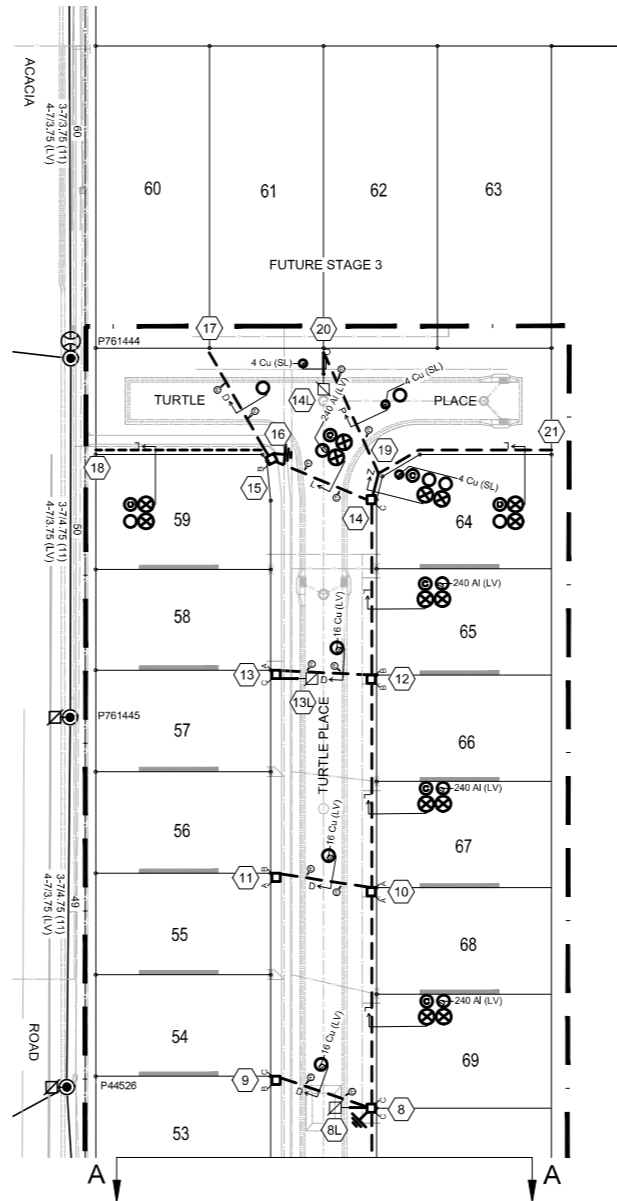
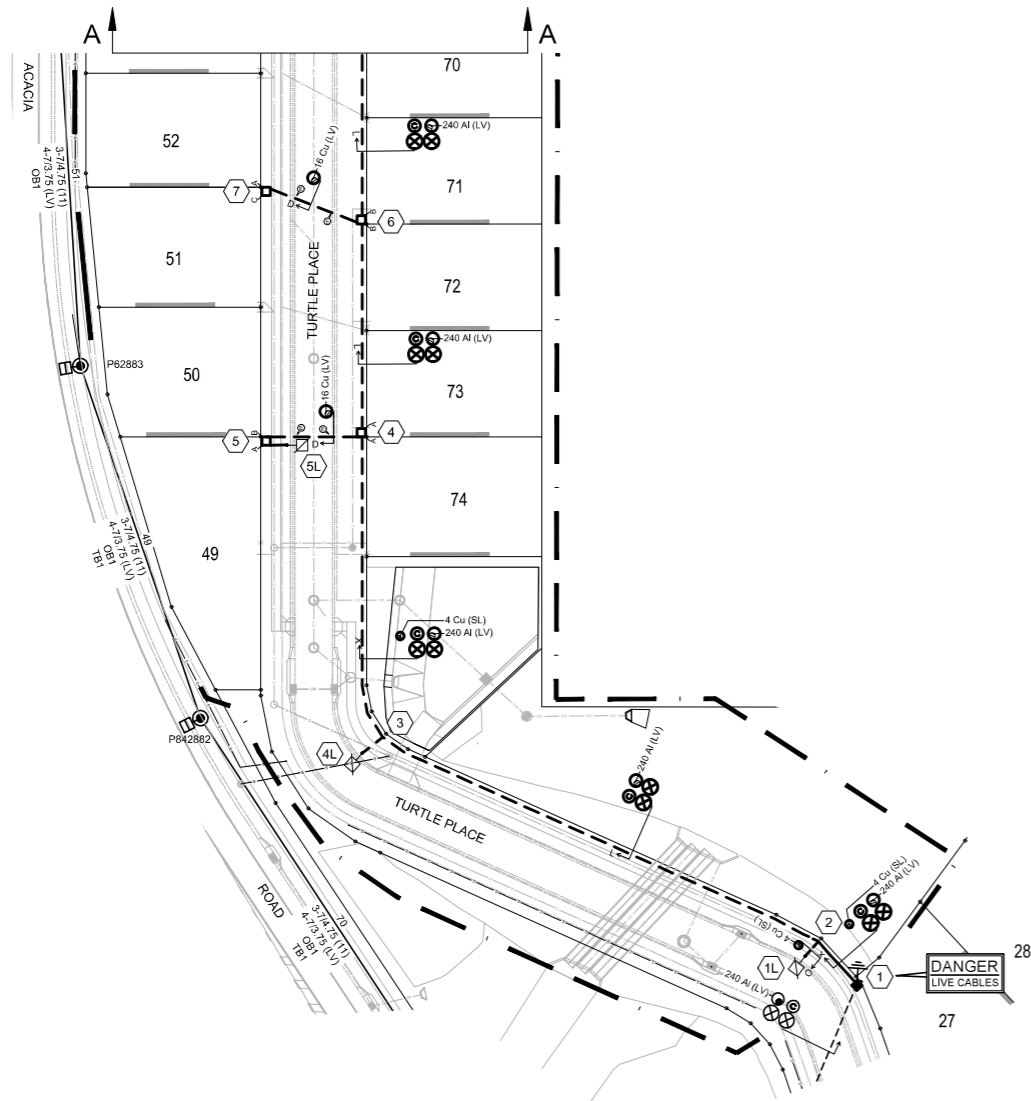


SITE CONTACT DETAILS		ALIGNMENTS		PROPERTY DESCRIPTION	
NAME	ENERGEX OH	0.8 NFK	NUMBER OF LOTS:	22	
COMPANY	ENERGEX UG	0.9	PROPOSED LOTS:	49 - 59, 64 - 74	
PHONE	TELSTRA	DBYD	CANCELLING LOTS:	LOTS 1 ON RP54123	
MOBILE	GAS	DBYD	APPROVAL No:	A004060334	
FAX	HP GAS	DBYD	LOCAL AUTHORITY:	BCC	
EMAIL	WATER	DBYD	SEWERAGE	DBYD	
	STORMWATER	DBYD	OTHER	DBYD	
	J. READ		RPEQ:	7727	

APPROVED: T. FOSTER
PHONE: 0448 903 388
CHECKED: W. CHAN
PHONE: 0419 948 671
DESIGNER: C. ALLAN
PHONE: 0417 612 168
PLANNER: W. CHAN
PHONE: 0419 948 671
ISSUE DATE: 21/02/2020

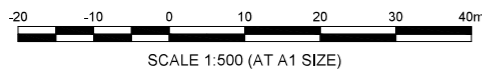
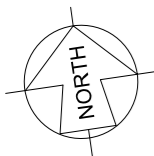
ELECTRICAL RETICULATION & STREET LIGHTING
STRETTON RESERVE STAGE 2
72 ACACIA RD, KARAWATHA
OVERALL PLAN

SCALE: N/A @ A1
10279-1-1
S4900185 **B**
Sheet 1 of 5



PILLAR ON ZERO LOT BOUNDARY
NOT TO SCALE

ZERO LOT BOUNDARY NOTE
ZERO LOT BOUNDARIES TO BE CONFIRMED PRIOR TO INSTALLATION OF ELECTRICAL INFRASTRUCTURE.



**FINAL/PARTIAL
AS CONSTRUCTED
CV ENERGY SERVICES**

PHONE (07) 3622 4333 FAX (07) 3622 4334

NAME: DARREN JORDAN, *DJ*
SIGN: *DJ*
3/02/2021 12:29:36 PM

Registered Professional Engineer of Queensland
MR JUSTIN READ
RPEQ 7727
DIV: ELECTRICAL
Signature: *Justin Read* Date: 26.08.2020

FOR CONSTRUCTION

REV	DATE	DETAILS	REV	DATE	DETAILS
PR1	22/04/2020	PRELIMINARY DESIGN			
A	24/07/2020	COUNCIL ENDORSED, REM STG 3, FOR CONSTRUCT.			
B	24/08/2020	ENERGEX PROJECT NUMBER UPDATED.			



SITE CONTACT DETAILS		ALIGNMENTS		PROPERTY DESCRIPTION	
NAME	ENERGEX OH	0.8 NFK	NUMBER OF LOTS:	22	
COMPANY	ENERGEX UG	0.9	PROPOSED LOTS:	49 - 59, 64 - 74	
PHONE	TELSTRA	DBYD	CANCELLING LOTS:	LOTS 1 ON RP54123	
MOBILE	GAS	DBYD	LOCAL AUTHORITY:	BCC	
FAX	HP GAS	DBYD	APPROVAL No:	A004060334	
EMAIL	WATER	DBYD			
	STORMWATER	DBYD			
	SEWERAGE	DBYD			
	OTHER	DBYD	J. READ	RPEQ: 7727	

APPROVED: T. FOSTER
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PHONE: 0417 612 168
PLANNER: W. CHAN
PHONE: 0419 948 671
ISSUE DATE: 21/02/2020

ELECTRICAL RETICULATION & STREET LIGHTING
STRETTON RESERVE STAGE 2
72 ACACIA RD, KARAWATHA
WORKS PLAN

SCALE: N/A @ A1
10279-1-1
S4900185 **B**
Sheet 2 of 5

EQUIPMENT SCHEDULE

LOCATION	STN No.	ENERGEX SITE I.D	EX	REC	IN	MODEL DESCRIPTION	IIN	COMP I.D	PLANT No.	MODEL I.D/ C.U LISTING	QTY	REMARKS
VARIOUS LOCATIONS						32A HRC FUSE LINK CARTRIDGE FOR SL				ASSY801-1	5	
Turtle Place, Karawatha	1	U 2216657	X			2-WAY LV PILLAR + SL + MEN URD SERVICE PILLAR LUGSET 240MM 4C CABLE		PII		LVSP4-6SL	1	
	4	U 2217210			X	ELECT PILLAR 4C 2WAY 240, 6X100A+SL		PII		LVSP4-6SL	1	
	5	U 2217219			X	ELECT PILLAR CROSS ROAD 16SQMM 6X100+SL		PII		LVSP12-6SL	1	
	6	U 2217220			X	ELECT PILLAR 4C 2 WAY 240, 6 X 100AMP		PII		LVSP4-6	1	
	7	U 2217221			X	ELECT PILLAR CROSS ROAD 16SQMM 6X100AMP		PII		LVSP12-6	1	
	8	U 2217222			X	ELECT PILLAR 4C 2WAY 240, 6X100A+SL		PII		LVSP4-6SL	1	
					X	MEN EARTHS URD EXTENTIONS(NORMAL POINT)		EA1		LV4CMEN	1	
	9	U 2217223			X	ELECT PILLAR CROSS ROAD 16SQMM 6X100AMP		PII		LVSP12-6	1	
	10	U 2217224			X	ELECT PILLAR 4C 2 WAY 240, 6 X 100AMP		PII		LVSP4-6	1	
	11	U 2217225			X	ELECT PILLAR CROSS ROAD 16SQMM 6X100AMP		PII		LVSP12-6	1	
	12	U 2217226			X	ELECT PILLAR 4C 2 WAY 240, 6 X 100AMP		PII		LVSP4-6	1	
	13	U 2217227			X	ELECT PILLAR CROSS ROAD 16SQMM 6X100+SL		PII		LVSP12-6SL	1	
	14	U 2217228			X	ELECT PILLAR 4C 3 WAY 3X240, 0 X 100 +SL		PII		LVSP9-6SL	1	Future 3-Way.
	15	U 2217229			X	ELECT PILLAR (4C) 1WAY 240,6 X 100AMP		PII		LVSP2-6	1	
					X	MEN EARTHS URD EXTENTIONS(NORMAL POINT)		EA1		LV4CMEN	1	

UNDERGROUND CABLE SCHEDULE

LOCATION	STATIONS FROM - TO	VOLTS	EX	TRF	REC	IN	CABLE SIZE/ TYPE	MODEL I.D/ C.U LISTING	ROUTE LENGTH (m)	CABLE LENGTH (m)		LCC	REMARKS
										NEW	REC		
Turtle Place, Karawatha	1 - 14	LV				X	240mm² Al 4C XLPE (m)	LVA4240XPV	251	269			Via Stns 4, 6, 8, 10 & 12.
	1 - 1L	SL				X	4mm² Cu 2C PVC-PVC (m)	LVC24PVPV	11	16			
	4 - 4L	SL				X	4mm² Cu 2C PVC-PVC (m)	LVC24PVPV	45	50			
	4 - 5	LV				X	16mm² Cu 4C XLPE (m)	LVC416XPV	13	16			
	5 - 5L	SL				X	4mm² Cu 2C PVC-PVC (m)	LVC24PVPV	3	8			
	6 - 7	LV				X	16mm² Cu 4C XLPE (m)	LVC416XPV	14	17			
	8 - 8L	SL				X	4mm² Cu 2C PVC-PVC (m)	LVC24PVPV	3	8			
	8 - 9	LV				X	16mm² Cu 4C XLPE (m)	LVC416XPV	13	16			
	10 - 11	LV				X	16mm² Cu 4C XLPE (m)	LVC416XPV	13	16			
	12 - 13	LV				X	16mm² Cu 4C XLPE (m)	LVC416XPV	13	16			
	13 - 13L	SL				X	4mm² Cu 2C PVC-PVC (m)	LVC24PVPV	12	17			
	14 - 15	LV				X	240mm² Al 4C XLPE (m)	LVA4240XPV	14	17			
	14 - 14L	SL				X	4mm² Cu 2C PVC-PVC (m)	LVC24PVPV	24	29			

URD CIVIL WORKS SCHEDULE - FOOTPATHS

LOCATION	STATIONS FROM - TO	CONDUIT LENGTH				BENDS ∠° / No.				X-SECTION (m)		PVC COVERSTRIP			DRAW WIRE (m)	KERB MARKERS	REMARKS
		40mm (HD) ORANGE	No.	100mm (LD) ORANGE	No.	100mm (COMMS) WHITE	No.	125mm (LD) ORANGE	No.	40mm	100mm	COMS	125mm	150mm			
VARIOUS LOCATIONS																	For Road Crossings.
Turtle Place, Karawatha	1 - 2	8	1	8	1	8	1	8	2	90	2	45	1				
	1L - 2	3	1							90	1						
	2 - 3			64	1	64	1	64	2			30	2	30	2	30	4
	3 - 4L	3	1							90	2						
	3 - 4	41	1	41	1	41	1	41	2	90	2	30	2	30	3	30	6
										45	1						
	4 - 14			138	1	138	1	138	2			45	10				
	5 - 5L	3	1							90	2						
	8 - 8L	3	1							90	2						
	13 - 13L	11	1							90	3						
	14 - 19	3	1	3	2	3	1	3	2	90	2	45	1	30	1	30	2
	15 - 16			1	2	1	1	1	2	90	2	45	2	45	2	45	4
	16 - 18			23	1	23	1	23	2								
	19 - 21			24	1	24	1	24	2			30	2	30	2	30	4
	20 - 14L	3	1							90	3						
ELECTRICAL CONTRACTOR TOTALS		78		306		302		604		90°	21	45°	27	45°	2	45°	4

NOTE- ALL CONDUITS SHALL BE INSTALLED STRICTLY IN ACCORDANCE WITH THE CURRENT ENERGEX "UNDERGROUND DISTRIBUTION CONSTRUCTION MANUAL"

Total Trench Length (m) - 441

Underground Developer - UGD -

Model I.D/ C.U Listing	Qty	Description
LVSP4-6SL	1	URD SERVICE PILLAR LUGSET 240MM 4C CABLE
LVSP12-6SL	2	ELECT PILLAR 4C 2WAY 240, 6X100A+SL
LVSP4-6	2	ELECT PILLAR CROSS ROAD 16SQMM 6X100+SL
LVSP12-6	3	ELECT PILLAR 4C 2 WAY 240, 6 X 100AMP
LV4CMEN	2	MEN EARTHS URD EXTENTIONS(NORMAL POINT)
LVSP9-6SL	1	ELECT PILLAR 4C 3 WAY 3X240, 6 X 100 +SL
LVSP2-6	1	ELECT PILLAR (4C) 1WAY 240,6 X 100AMP
LVA4240XPV	286	LV CABLE AL 4C 240 XLPE-PVC /M
LVC416XPV	81	LV CABLE CU 4C 16 XLPE-PVC /M
ASSY801-1	5	32A HRC FUSE LINK CARTRIDGE FOR SL

URD CIVIL WORKS SCHEDULE - ROAD CROSSINGS

LOCATION	STATIONS FROM - TO	CONDUIT LENGTH				BENDS ∠° / No.				X-SECTION (m)		PVC COVERSTRIP			DRAW WIRE (m)	KERB MARKERS	REMARKS	
		40mm (HD) ORANGE	No.	100mm (LD) ORANGE	No.	100mm (COMMS) WHITE	No.	125mm (LD) ORANGE	No.	40mm	100mm	COMS	125mm	150mm				200mm
VARIOUS LOCATIONS																	ROAD CROSSINGS - TRENCHING AND MATERIAL SUPPLIED BY CIVIL CONTRACTOR (BENDS SUPPLIED BY ELECTRICAL CONTRACTOR)	
Turtle Place, Karawatha	4 - 5			13	1					45	2			13				
	6 - 7			14	1					45	2			14				
	8 - 9			13	1					45	2			13				
	10 - 11			13	1					45	2			13				
	12 - 13			13	1					45	2			13				
	14 - 15			14	1	14	1	14	2	45	2			14				
	16 - 17			15	1					45	2			15				
	19 - 20	18	1	18	1					18				18				
CIVIL CONTRACTORS TOTALS		18		113		14		28		ALL BENDS TO BE SUPPLIED BY ELECTRICAL CONTRACTOR				113		112	207	16

NOTE- ALL CONDUITS SHALL BE INSTALLED STRICTLY IN ACCORDANCE WITH THE CURRENT ENERGEX "UNDERGROUND DISTRIBUTION CONSTRUCTION MANUAL"

Streetlight Developer - SLD -

Model I.D/ C.U Listing	Qty	Description
SLNOS3CI	6	SLNOS3CISTREETLIGHTPOLE,NOSTALGIA
SLEDGL01712	6	SYLVANIA L17 LED NOSTALGIA T1 BLACK
LVC24PVPV	128	LV CABLE CU 2C 4 SQMM PVC-PVC /M

RATE 2 LIGHTING SCHEDULE

LOCATION	STN No.	SITE I.D (POLE No.)	POLE or COMPONENTS				LUMINAIRE				OUTREACH BRACKET				MOUNTING HEIGHT (m)	REMARKS			
			COMP I.D	EXIST (m)	REC (m)	ERECT (m)	C.U LISTING / MODEL No	ALIGN. (m)	COMP I.D	EXIST	REC.	DATE DE-ENERGISED	LUMI N	CUST			DATE ENERGISED	C.U LISTING / MODEL No.	EXIST
Turtle Place, Karawatha	1L	P 2216689	P01			4.5 BPM	SLNOS3CI	0.80 NFK	SL1	L17-L2	BCC	25/11/2020	SLEDGL01712					5.1	Black Nostalgia
	4L	P 2217232	P01			4.5 BPM	SLNOS3CI	0.80 NFK	SL1	L17-L2	BCC	25/11/2020	SLEDGL01712					5.1	Black Nostalgia
	5L	P 2217233	P01			4.5 BPM	SLNOS3CI	0.80 NFK	SL1	L17-L2	BCC	25/11/2020	SLEDGL01712					5.1	Black Nostalgia
	8L	P 2217234	P01			4.5 BPM	SLNOS3CI	0.80 NFK	SL1	L17-L2	BCC	25/11/2020	SLEDGL01712					5.1	Black Nostalgia
	13L	P 2217235	P01			4.5 BPM	SLNOS3CI	0.80 NFK	SL1	L17-L2	BCC	25/11/2020	SLEDGL01712					5.1	Black Nostalgia
	14L	P 2217236	P01			4.5 BPM	SLNOS3CI	0.80 NFK	SL1	L17-L2	BCC	25/11/2020	SLEDGL01712					5.1	Black Nostalgia

FINAL/PARTIAL AS CONSTRUCTED
CV ENERGY SERVICES

PHONE (07) 3622 4333 FAX (07) 3622 4334

NAME: DARREN JORDAN

SIGN:

30/2/2021 12:29:07 PM

Registered Professional Engineer of Queensland
MR JUSTIN READ
RPEQ 7727
DIV: ELECTRICAL
Signature: *Justin Read* Date: 26.08.2020

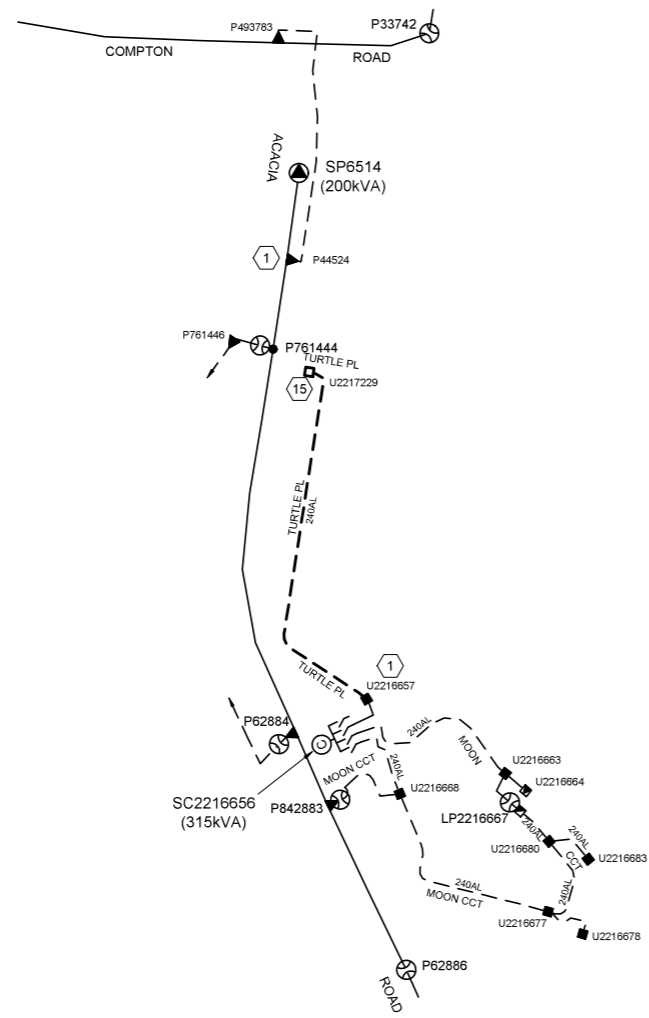
FOR CONSTRUCTION

REV	DATE	DETAILS	REV	DATE	DETAILS
PR1	22/04/2020	PRELIMINARY DESIGN			
A	24/07/2020	COUNCIL ENDORSED, REM STG 3, FOR CONSTRUCT.			
B	24/08/2020	ENERGEX PROJECT NUMBER UPDATED.			



SITE CONTACT DETAILS		ALIGNMENTS		PROPERTY DESCRIPTION		APPROVED:	
NAME	ENERGEX OH	0.8 NFK	ENERGEX UG	0.9	NUMBER OF LOTS: 22	PROPOSED LOTS: 49 - 59, 64 - 74	T. FOSTER PHONE: 0448 903 388
COMPANY	TELSTRA	DBYD	GAS	DBYD	CANCELLING LOTS: LOTS 1 ON RP54123		W. CHAN PHONE: 0419 948 671
PHONE	HP GAS	DBYD	WATER	DBYD	LOCAL AUTHORITY: BCC		C. ALLAN PHONE: 0417 612 168
MOBILE	WATER	DBYD	SEWERAGE	DBYD	APPROVAL No: A004060334		W. CHAN PHONE: 0419 948 671
FAX	STORMWATER	DBYD	OTHER	DBYD	J. READ	RPEQ: 7727	ISSUE DATE: 21/02/2020
EMAIL	SEWERAGE	DBYD					

ELECTRICAL RETICULATION & STREET LIGHTING		SCALE: N/A @ A1	
STRETTON RESERVE STAGE 2 72 ACACIA RD, KARAWATHA		10279-1-1	
SCHEDULES & MATERIAL LISTS		S4900185	B
Sheet 3 of 5			



EXISTING & PROPOSED LV SCHEMATIC
SCALE 1:2500 @ A1

Site ID: SC2216656 Location: TURTLE PLACE Stn No: -

CIRCUIT No.	LABEL SIZE	LABEL COLOUR	LETTER SIZE	LV SWITCHBOARD LABEL	
TFMR ISOLATOR	80x35	WB	6	TRANSFORMER ISOLATOR	
1	80x35	WB	5	[EXISTING]	EXISTING
2	80x35	WB	5	[EXISTING]	EXISTING
3	80x35	WB	5	TO TURTLE PL U2217229 & SERVICES.	NEW
4	80x35	WB	5	[SPARE]	EXISTING

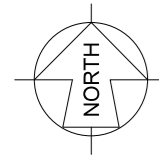
~~FINAL/PARTIAL~~
AS CONSTRUCTED
CV ENERGY SERVICES

PHONE (07) 3622 4333 FAX (07) 3622 4334

NAME: DARREN JORDAN
SIGN: *DJ*
3/02/2021 12:28:39 PM

Registered Professional Engineer of Queensland
MR JUSTIN READ
RPEQ 7727
DIV: ELECTRICAL
Signature: *Justin Read* Date: 26.08.2020

FOR CONSTRUCTION



REV	DATE	DETAILS	REV	DATE	DETAILS
PR1	22/04/2020	PRELIMINARY DESIGN			
A	24/07/2020	COUNCIL ENDORSED, REM STG 3, FOR CONSTRUCT.			
B	24/08/2020	ENERGEX PROJECT NUMBER UPDATED.			

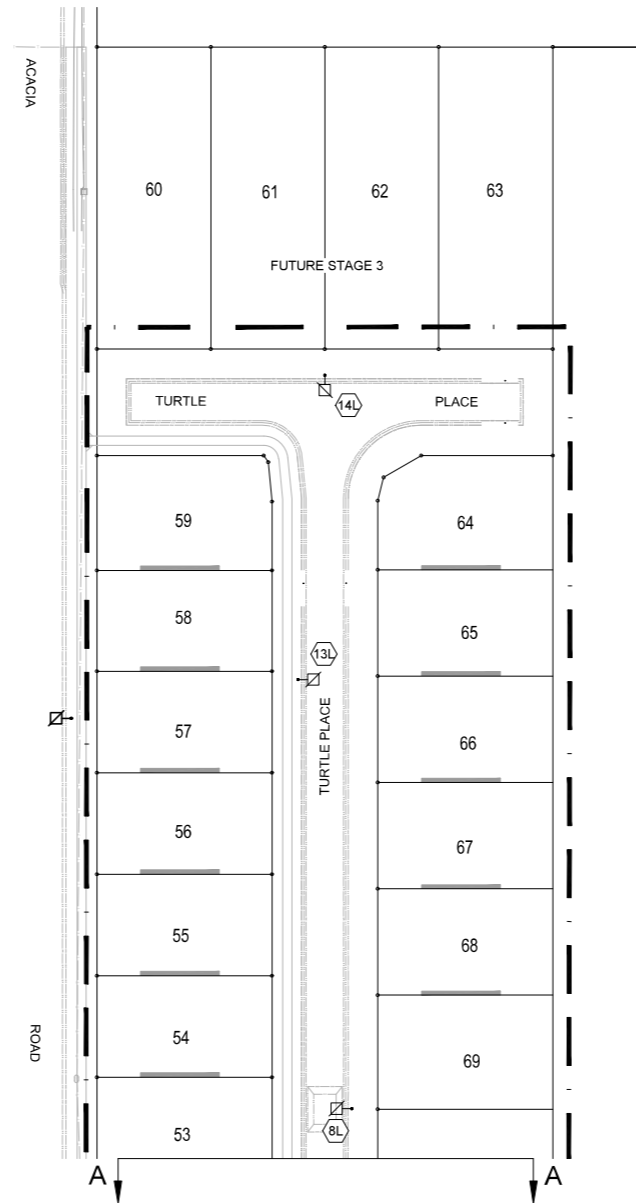
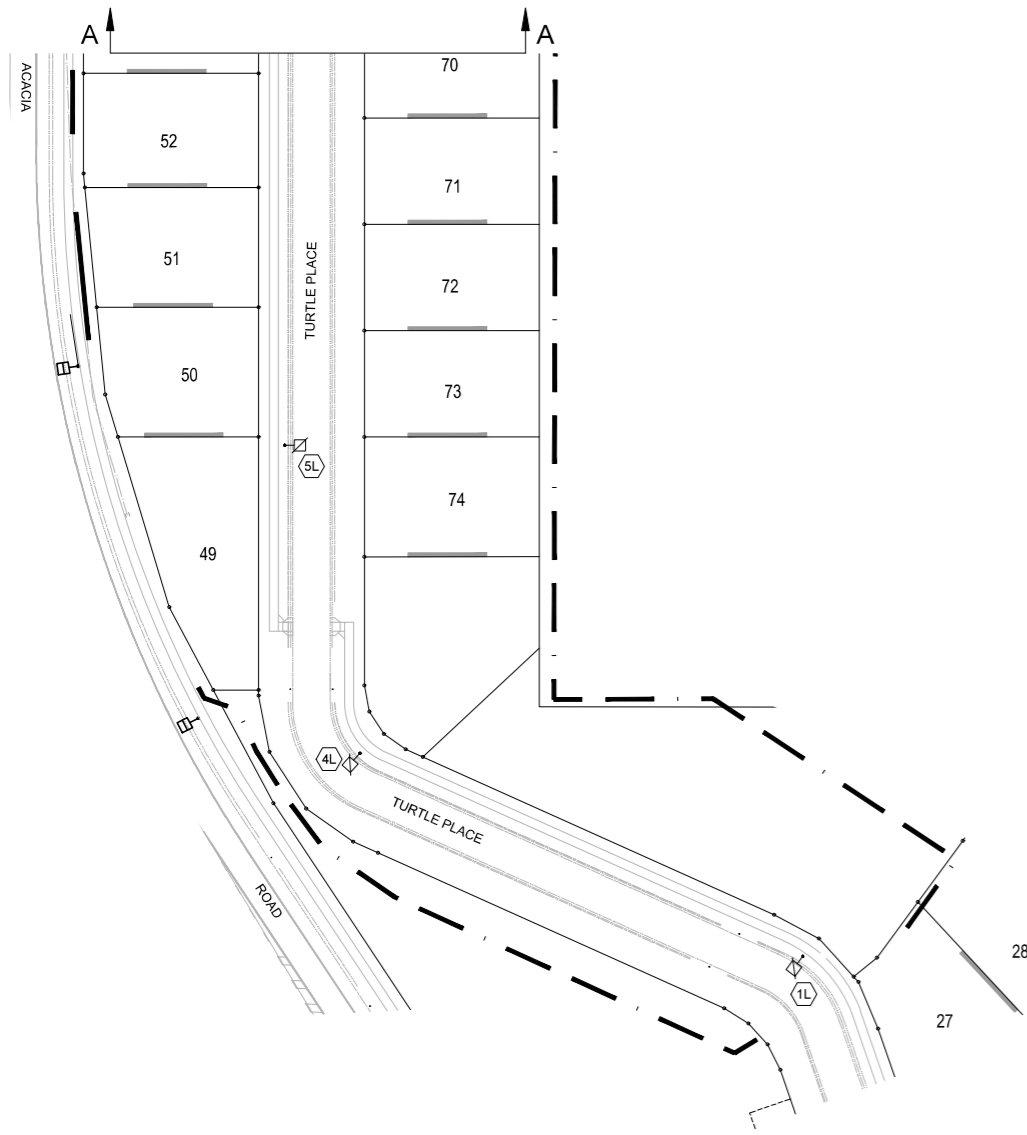


SITE CONTACT DETAILS		ALIGNMENTS		PROPERTY DESCRIPTION	
NAME	ENERGEX OH	0.8 NFK	NUMBER OF LOTS:	22	
COMPANY	ENERGEX UG	0.9	PROPOSED LOTS:	49 - 59, 64 - 74	
PHONE	TELSTRA	DBYD	CANCELLING LOTS:	LOTS 1 ON RP54123	
MOBILE	GAS	DBYD	LOCAL AUTHORITY:	BCC	
FAX	HP GAS	DBYD	APPROVAL No:	A004060334	
EMAIL	WATER	DBYD			
	STORMWATER	DBYD			
	SEWERAGE	DBYD			
	OTHER	DBYD	J. READ	RPEQ: 7727	

APPROVED: T. FOSTER
PHONE: 0448 903 388
CHECKED: W. CHAN
PHONE: 0419 948 671
DESIGNER: C. ALLAN
PHONE: 0417 612 168
PLANNER: W. CHAN
PHONE: 0419 948 671
ISSUE DATE: 21/02/2020

ELECTRICAL RETICULATION & STREET LIGHTING
STRETTON RESERVE STAGE 2
72 ACACIA RD, KARAWATHA
WORKS PLAN

SCALE: 1:2500 @ A1
10279-1-1
S4900185 **B**
Sheet 4 of 5



CERTIFICATE OF COMPLIANCE

DESIGN DOCUMENTATION IN ACCORDANCE WITH THE REQUIREMENTS OF
AS/NZS 1158.3.1:2005 APPENDIX E

LOCATIONS & CATEGORY TURTLE PLACE TURTLE PLACE - CULDESAC	CATEGORY P5 To Council Requirements.
INSTALLATION ARRANGEMENT/GEOMETRY MOUNTING HEIGHT: OUTREACH: LIGHTING ARRANGEMENT: UPCAST ANGLE:	5.1m 0m STAGGERED 0°
LUMINAIRE/LAMP DETAILS LUMINAIRE ID: LAMP TYPE: LAMP INITIAL FLUX: I-TABLE No: LIGHTING TARIFF: MAINTENANCE FACTOR:	MODULAR L17 NOS LED 15W 1899lm Modular LED 15W 4K 170326PHM.cie RATE 2 0.75
PHOTOMETRIC DATA DETAILS ORIGIN OF NATA CERTIFIED PHOTOMETRIC DATA:	GERARD LIGHTING
LIGHT TECHNICAL PARAMETERS DESIGN METHOD:	DESIGN RULES & COUNCIL REQUIREMENTS

ROAD NAME	CATEGORY	ROAD WIDTH	LUMINAIRE	ARRANGEMENT	SPACING
TURTLE PLACE	P5	14m	L17	STAGGERED	75m

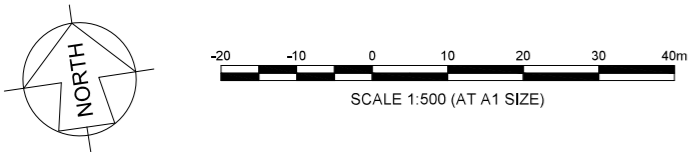
LIMITING VALUES OF LIGHT TECHNICAL PARAMETERS:

LIGHTING CATEGORY	E _h	E _{ph}	U _{e2}	E _{pv}
P5	0.5	0.07	10	N/A

COMPUTER PROGRAM USED TO CALCULATE TECHNICAL PARAMETERS
PERFECT LITE
V 5.09 (10/04/2013)

ROAD LIGHTING CERTIFIED TO COMPLY WITH AS/NZS 1158.3.1:2005 FOR P-CATEGORY

J. READ RPEQ No. 7727



FINAL/PARTIAL
AS CONSTRUCTED
CV ENERGY SERVICES

PHONE (07) 3622 4333 FAX (07) 3622 4334

NAME: DARREN JORDAN
SIGN:
3/02/2021 12:28:13 PM

Registered Professional Engineer of Queensland
MR JUSTIN READ
RPEQ 7727
DIV: ELECTRICAL
Signature: Date: 26.08.2020

FOR CONSTRUCTION

REV	DATE	DETAILS	REV	DATE	DETAILS
PR1	22/04/2020	PRELIMINARY DESIGN			
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B	24/08/2020	ENERGEX PROJECT NUMBER UPDATED.			



SITE CONTACT DETAILS		ALIGNMENTS		PROPERTY DESCRIPTION	
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	ENERGEX UG	0.9	PROPOSED LOTS:	49 - 59, 64 - 74	
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	GAS	DBYD			
PHONE	HP GAS	DBYD	LOCAL AUTHORITY:	BCC	
MOBILE	WATER	DBYD	APPROVAL No:	A004060334	
FAX	STORMWATER	DBYD			
EMAIL	SEWERAGE	DBYD			
	OTHER	DBYD	J. READ	RPEQ: 7727	

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DESIGNER: C. ALLAN
PHONE: 0417 612 168

PLANNER: W. CHAN
PHONE: 0419 948 671

ISSUE DATE: 21/02/2020

ELECTRICAL RETICULATION & STREET LIGHTING

STRETTON RESERVE STAGE 2
72 ACACIA RD, KARAWATHA

STREELIGHTING CERTIFICATION

SCALE: 1:500 @ A1

10279-1-1

S4900185 **B**

Sheet 5 of 5