

ELECTRICAL CERTIFICATION	
THIS IS TO CERTIFY THAT THE DESIGN OF ENERGEX RETICULATION IS IN ACCORDANCE WITH ENERGEX DESIGN MANUALS AND WORK CATEGORY SPECIFICATION 47.1 & 47.3 WHERE APPLICABLE.	
MD SHIHABUL ISLAM (RPEQ 21373)	<i>Md Shihabul Islam</i>
DATE	30-08-2021

STAGE 1 SITE

STAGE 2 SITE

WORKS AREA

CHRISTENSEN RD

EASTERN SERVICE RD

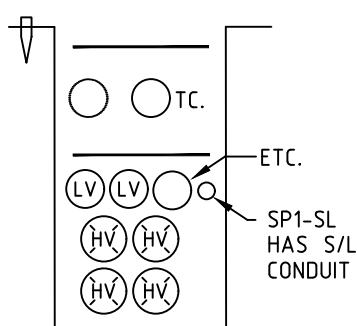
MARILLA ST

LOCALITY PLAN
NT.S

STREET LIGHT SYMBOL LEGEND

EXISTING M50 (RATE 2)

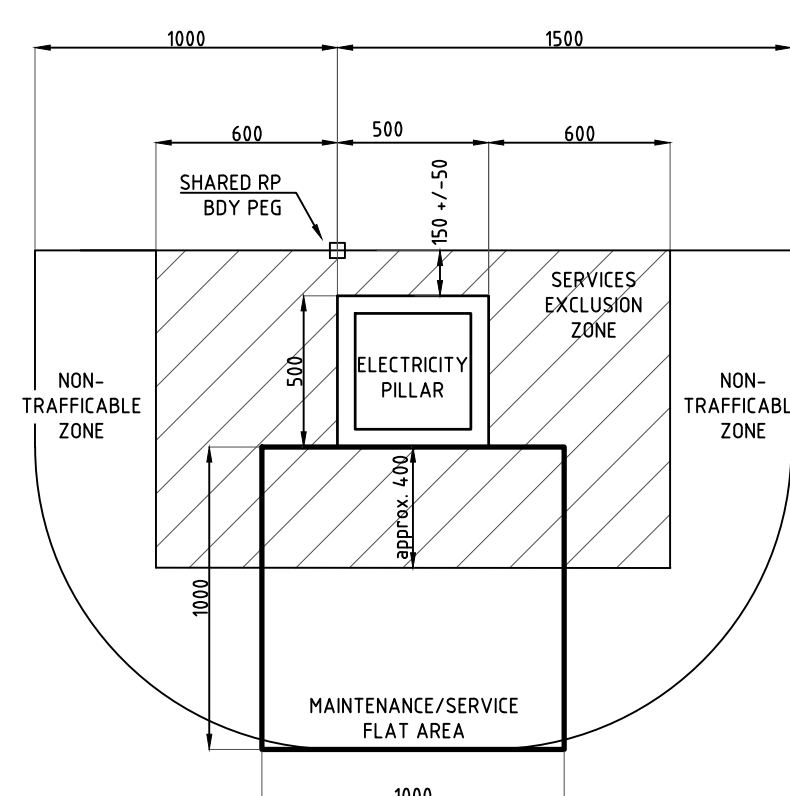
ENERGEX NON-STANDARD TRENCH DETAILS (NTS)



DETAIL SP1 & SP1-SL

**ISSUE FOR ENERGEX &
COUNCIL ACCEPTANCE ONLY
NOT FOR CONSTRUCTION**

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PILLAR OFFSET TO ONE
SIDE OF SHARED RP BDY

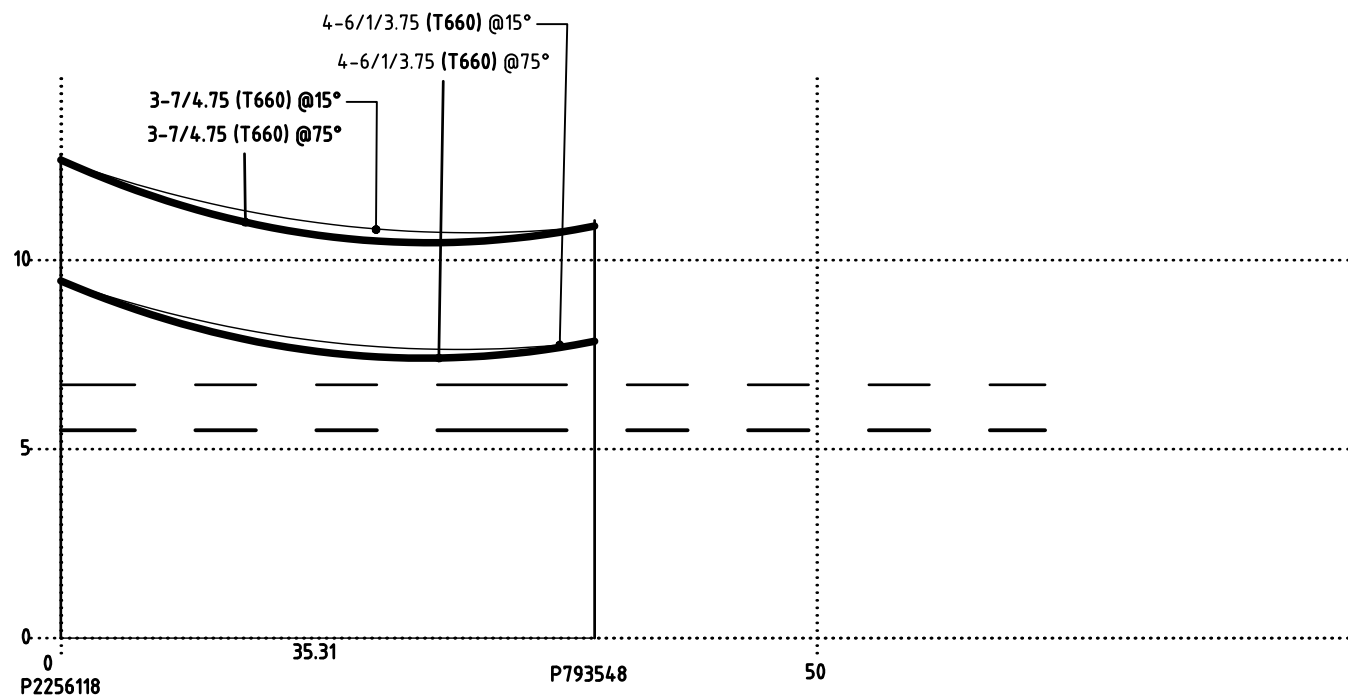
- NOTES
1. PILLARS MAY BE SET CENTRED ON BODY PEG OR OFFSET TO ONE SIDE AS SHOWN.
 2. PILLARS TO BE OFFSET 150 (+/-50) FROM RP BODY
 3. SERVICES EXCLUSION ZONE IS FOR ABOVE GROUND SERVICES ONLY. (PITS, MANHOLES ETC). UNDERGROUND PIPES MAY PASS THROUGH THIS AREA AS LONG AS THEY DO NOT CONFLICT WITH ELECTRICITY ASSETS.
 4. IF ROADS/DRIVEWAYS ARE WITHIN 1000 OF PILLAR 2 X PROTECTION BOLLARDS WILL BE REQUIRED.
 5. FLAT AREA IN FRONT OF PILLAR TO BE MAINTAINED FOR ACCESS AND MAINTENANCE.

WORKSPLAN VERSION 5.5

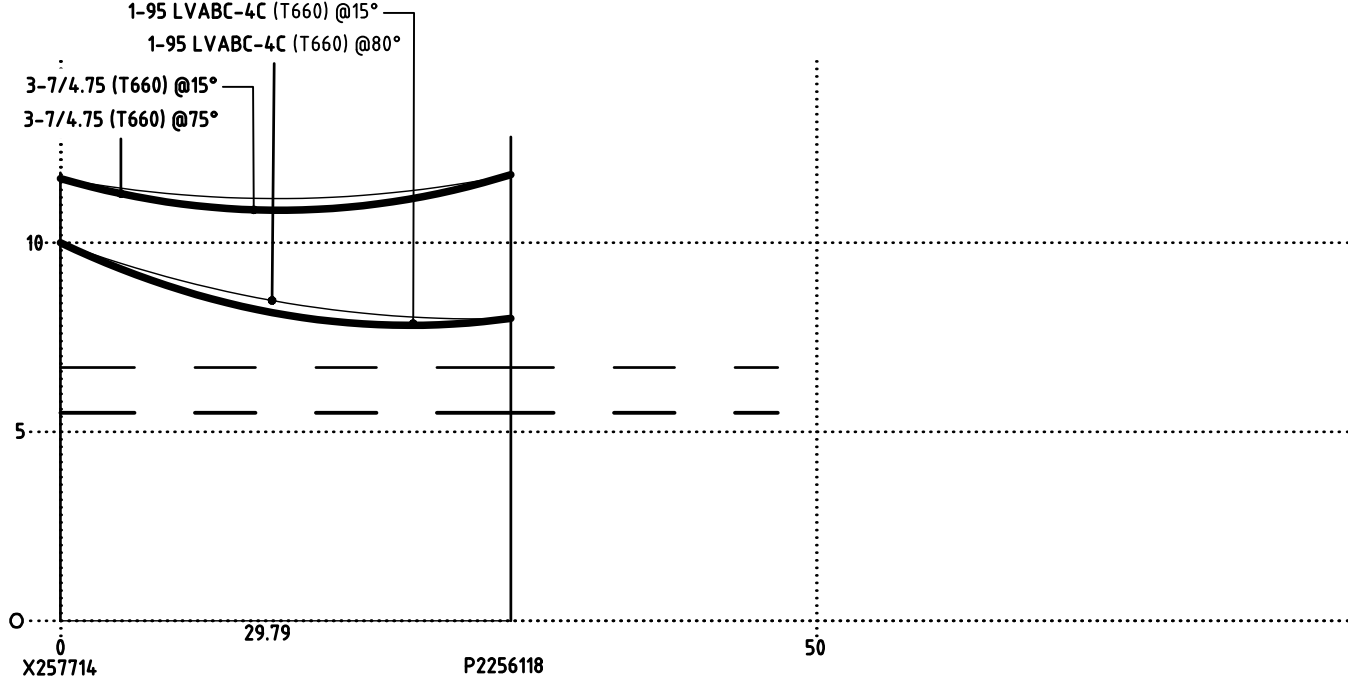
SCALE: 1:500@A1

S1301569

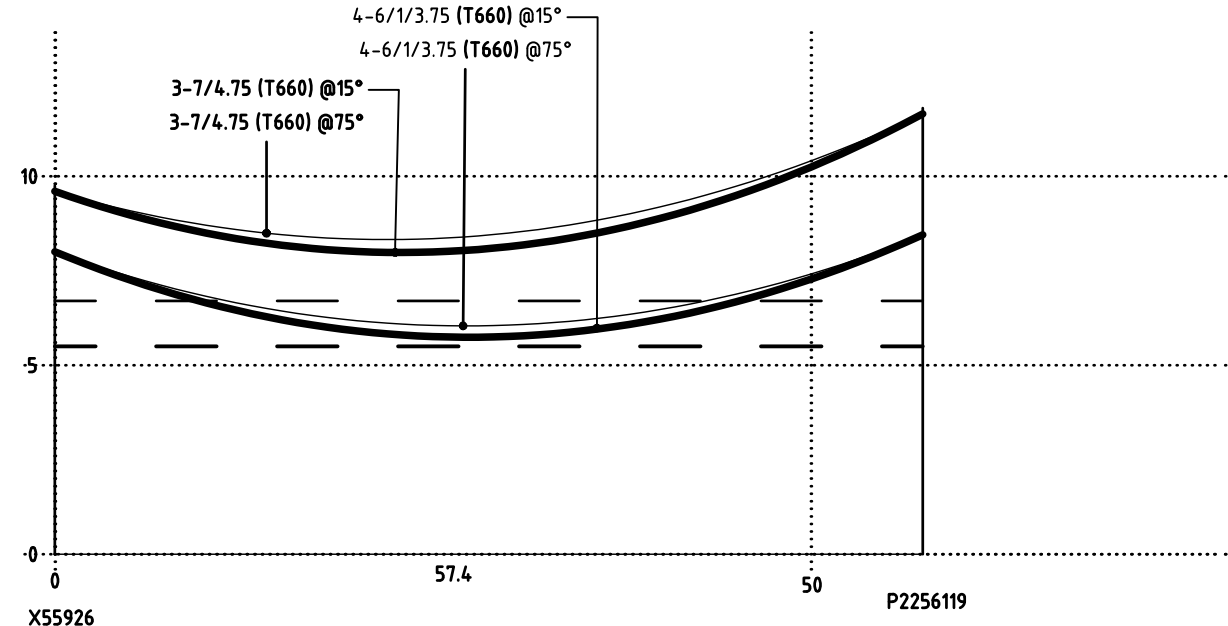
Sheet 1 of 3
ISSUE NO: A



PROPOSED OVERHEAD PROFILE
SCALE: X=150 Y=1250



PROPOSED OVERHEAD PROFILE
SCALE: X=150 Y=1250



PROPOSED OVERHEAD PROFILE
SCALE: X=150 Y=1250

OVERHEAD WORKS SCHEDULE																						
LOCATION	STN No.	SITE I.D (POLE No)	POLES											CONSTRUCTIONS (Note: KBS is top KB to top KB)								REMARKS
			EDT ANG	EDT kN	SST Kn	LST Kn	EXISTING	RECOVER	ERECT	SINK	FOOT	COMP ID	ALIGN	LCC	EXISTING	RECOVER	ERECT	No	KBS	ANG	LCC	
CHRISTENSEN ROAD	1	X257714	49° 42"	6.76 0.99	2.82 3.09	5.94 5.95	P14/8-14			EX	EX	PO1	EX		11LSPTFFIS 11S LVABC/A SWPBM11B			1 1 1	EX EX			
	2	P793548	99° 94"	3.62	7.54	15.33	P14/12-22			EX	EX	PO1	EX		11T 11PTTRIPXW MEN			1 1 1	EX EX EX			
	3	P2256118	288°	7.2	13.18	26.1			P15.5/20-36	2.7	MDCF	PO1	1.2 BOK			11TC HVTMO 11TC HVTMO SC0020279 PAGE7-54-2 SC0005909 11PTTRIPXW 11BRAL/240XL LVT LVTBA LVABC/DS2 S3B/W LVT240/HV SC0010604 LVBR240/ABC CGEC	1 3 1 3 3 6 1 3 1 4 1 1 1 1 1 1	150 850 1400 1800 300 500	32°			1-4B35 SERVICE
	5	P55923	EX	EX	EX	EX	P14/12-22	P14/12-22		EX	EX	PO1	EX		11T 11S LVT LVABC/S S3B/W	11T 11S LVT LVABC/S S3B/W		1 1 1 1 1	EX EX EX EX			
	6	X55924	EX	EX	EX	EX	P12.5/12-22	P12.5/12-22		EX	EX	PO1	EX		11LSPTFFIS 11S LVS LVABC/T	11LSPTFFIS 11S LVS LVABC/T		1 1 1 2	EX EX EX			
	6A	SERV POLE	EX	EX	EX	EX	EX	EX		EX	EX	EX	EX		LVABC/T	LVABC/T		2	EX			
	11	SP55925	EX	EX	EX	EX	P14/12-CPT2	P14/12-CPT2		EX	EX	PO1	EX		11ED03 S21653 LVT LVABC/DS2	11ED03 S21653 LVT LVABC/DS2		1 1 1 1				
	13	P2256119	138°	3.62	7.77	16.09			P14/12-22	2.2	MDCF	PO1	1.2 BOK			11TC HVTMO 11PTTRIPXW 11BRAL/240XL PAGE7-54-2 11BRAL/240XL LVT LVTBA S3B/W45 LVBR240/ABC CGEC	1 3 1 3 3 3 4 1 1 1	150 1400 1800				
	14	X55926	48° 48"	0.02	1.9	3.44	40FT LG MED			EX	EX	EX	EX		11LSPTFFIS 11SC LVS LVABC/DS2			1 1 1	EX EX			

!WARNING!
FIRE ANT TERRITORY
THIS SITE IS WITHIN A RED IMPORTED FIRE ANT BIOSECURITY ZONE. CALL 132523 FOR FURTHER INFORMATION.

OVERHEAD CONDUCTOR SCHEDULE																	
LOCATION	STATIONS 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)		LCC	REMARKS
												15°	30°	NEW	REC		
CHRISTENSEN ROAD	1 - 3	11KV	3-7/4.75	3-7/4.75			1	30	660	30	STN 1-3	0.58	0.67				
	2 - 3	11KV	3-7/4.75	3-7/4.75			1	36	660	36	STN 2-3	0.82	0.91				
	5 - 11	11KV	3-7/4.75		3-7/4.75		2	120	EX	EX	EX	EX	EX		360		
	13 - 14	11KV	3-7/4.75	3-7/4.75			1	60	660	60	STN 13-14	2.18	2.27				
	1 - 3	LV	1-95 ABC 4C	1-95 ABC 4C			1	30	660	30	STN 2-3	0.59	0.68				
	2 - 3	LV	4-6/1/3.75	4-6/1/3.75			1	36	660	36	STN 1-3	0.82	0.9				
	5 - 11	LV	4-6/1/3.75		4-6/1/3.75		2	120	EX	EX	EX	EX	EX		480		
	6 - 6A	LV	2-95 ABC 4C		2-95 ABC 4C		2	25	EX	EX	EX	EX	EX		50		
	13 - 14	LV	4-6/1/3.75	4-6/1/3.75			1	60	660	60	STN 13-14	2.18	2.26				

LV OVERHEAD SERVICE CONDUCTOR SCHEDULE																		
LOCATION	STN No.	HOUSE No	EXISTING	TRANSFER	RECOVER	ERECT	No OF SPANS	DIST (m)	SAG SPAN	SAG(m)		TOTAL CONDUCTOR LENGTH (m)	FITTINGS					REMARKS
										15°	30°		MAINS BOX	CHANGE P.O.A.	FUSE SIZE	φ	SERVICE FITTING CODE or IIN	
CHRISTENSEN	5	34	4B35	4B35			1	EX	EX	EX	EX	20	EX	N	EX	EX	NOTE 1	TRANSFER SERVICE CABLE TO NEW POLE STN 3
NOTE 1 : CONTRACTOR TO CHECK EXISTING FUSE SIZE																		

PROPOSED 40mm S/L

PROPOSED ENERGEX 100mm COMMS

PROPOSED 100mm

PROPOSED 125mm

EXISTING 40mm S/L

EXISTING ENERGEX 100mm COMMS

EXISTING 100mm

EXISTING 125mm

PROPOSED CABLE (AS MARKED)

EXISTING CABLE (AS MARKED)

PROPOSED UNDERGROUND HV/LV ROUTE

EXISTING UNDERGROUND HV/LV ROUTE

PROPOSED OVERHEAD HV/LV ROUTE

EXISTING OVERHEAD HV/LV ROUTE

PROPOSED S/L CABLE

EXISTING S/L CABLE

PADMOUNT TRANSFORMER

PMT LV GEOGRAPHIC

PMT HV GEOGRAPHIC

RING MAIN UNIT

RMU HV SCHEMATIC

PROPOSED SUPPLY PILLAR

EXISTING SUPPLY PILLAR

PROPOSED LINK PILLAR

EXISTING LINK PILLAR

COMMERCIAL PILLAR

EARTH

PROPOSED TYPE 4 PIT

EXISTING TYPE 4 PIT

RECOVER EQUIPMENT

11kV STRAIGHT JOINT

OVERHEAD POLE TRANSFORMER

OVERHEAD POLE (HV ONLY)

OVERHEAD POLE (LV ONLY)

OVERHEAD POLE (HV & LV)

OVERHEAD HV TERMINATION

OVERHEAD LV TERMINATION

AIR BREAK SWITCH (OPEN)

AIR BREAK SWITCH (CLOSED)

DISCONNECT LINKS (OPEN)

DISCONNECT LINKS (CLOSED)

WATER METER

SURVEY PEG

STREET LIGHT SYMBOL LEGEND

EXISTING M50 (RATE 2)

ENERGEX NON-STANDARD TRENCH DETAILS (NTS)

ETC.

SP1-SL HAS S/L CONDUIT

DETAIL SP1 & SP1-SL

ISSUE FOR ENERGEX & COUNCIL ACCEPTANCE ONLY
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DATE30.08.21

ISSUED FOR ENERGEX & COUNCIL ACCEPTANCE

RDESCRIPTION

PE

CONSULTING ENGINEERS

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(07) 5596 1425

mail@pece.com.au

peter@eustace.com.au

NORTH

20-0209- 02

SITE CONTACT DETAILS

NAME

TBC

COMPANY

-

PHONE

MOBILE

FAX

Energex OH

Energex UG

NBN

GAS

HP GAS

WATER

STORMWATER

SEWERAGE

OTHER

COUNCIL STANDARD ALIGNMENTS

Energex OH

Energex UG

REFER NBN

REFER GAS

REFER GAS

REFER CIVIL

REFER CIVIL

REFER CIVIL

WORKS COORDINATOR

PARENT PROJECT NO.

WORK REQUEST NO.

LOTS

CANCELLING LOTS

LOCAL AUTHORITY

UBD REF

PEGGED?

PETER EUSTACE & ASSOCIATES

LOT 501 on SP285984

GOLD COAST CITY COUNCIL

YES

APPROVED

CHECKED

DESIGNER

PLANNER

PHONE

ISSUE DATE

SHIHABUL ISLAM

DAVID PRUSS

ABRAHAM IKORO

KRIS BOYENIS

(07) 5596 1425

30 AUGUST 2021

Peter Eustace & Associates

INSTALL CONDUITS, CABLES, POLES, PILLARS

EARLY WORKS

HESTER STAGE 2 - YATALA STAPYLTON JACOBS WELL ROAD

CHRISTENSEN RD YATALA

WORKSPLAN VERSION 5.5

SCALE: 1:500@A1

PROJECT / SUB PROJECT NO.

S1301569

Sheet 2 of 3

ISSUE NO: A

PROPOSED COMMISSIONING SCHEDULE			
TENTATIVE ONLY SUBJECT TO AMENDMENT BY SWITCHING CO-ORDINATOR			
ITEM No	LOCATION	APPARATUS	ACTION
1	COMMISSION NEW PMT - LV AND HV SWITCHING		
2	ADVISE CONTRACT SUPERVISOR SWITCHING TO COMMENCE		
3	RECEIVE CLEARANCE FROM WORK CREWS ALL WORK COMPLETED		
4	NOTIFY ALL WORK CREWS TREAT PILLARS AS LIVE		
5	CHRISTENSEN RD SC833233, CHRISTENSEN RD SG747134, CHRISTENSEN RD SP383749, CHRISTENSEN RD SP763958, CHRISTENSEN RD SP383758, CHRISTENSEN RD SC714279, CHRISTENSEN RD SC777098, CHRISTENSEN RD SG11309, CHRISTENSEN RD SC736411	NEW LV EQUIPMENT	MAKE READY
6	CHRISTENSEN RD SC793547	GENSET	CONNECT GENSET
7	CHRISTENSEN RD X55926		
8	CHRISTENSEN RD X257714		
9	CHRISTENSEN RD		
10	REVERSE		
11	CHRISTENSEN RD		
12	ADVISE CONTRACT SUPERVISOR SWITCHING COMPLETE		

11kV FEEDER DESTINATION LABELS		
LOCATION:	CHRISTENSEN RD	
LABEL SIZE	STATION I.D	LABEL INFORMATION
300 x 100	POLE No: P2256118	11kV CABLE TO CHRISTENSEN RD P2256119
MATERIAL: GRAVOPLY II (1.5mm) or similar		

LV POLE TERMINATION LABEL		
LABEL SIZE	SITE LOCATION FOR ATTACHING OF LABEL	LABEL INFORMATION
300x100	POLE No: P2256118	LV CABLE TO CHRISTENSEN RD U2256087 (DIRECT) / CHRISTENSEN RD P2256119 & SERVICES
	LOCATION: CHRISTENSEN RD	
MATERIAL: GRAVOPLY II (1.5mm) or similar		

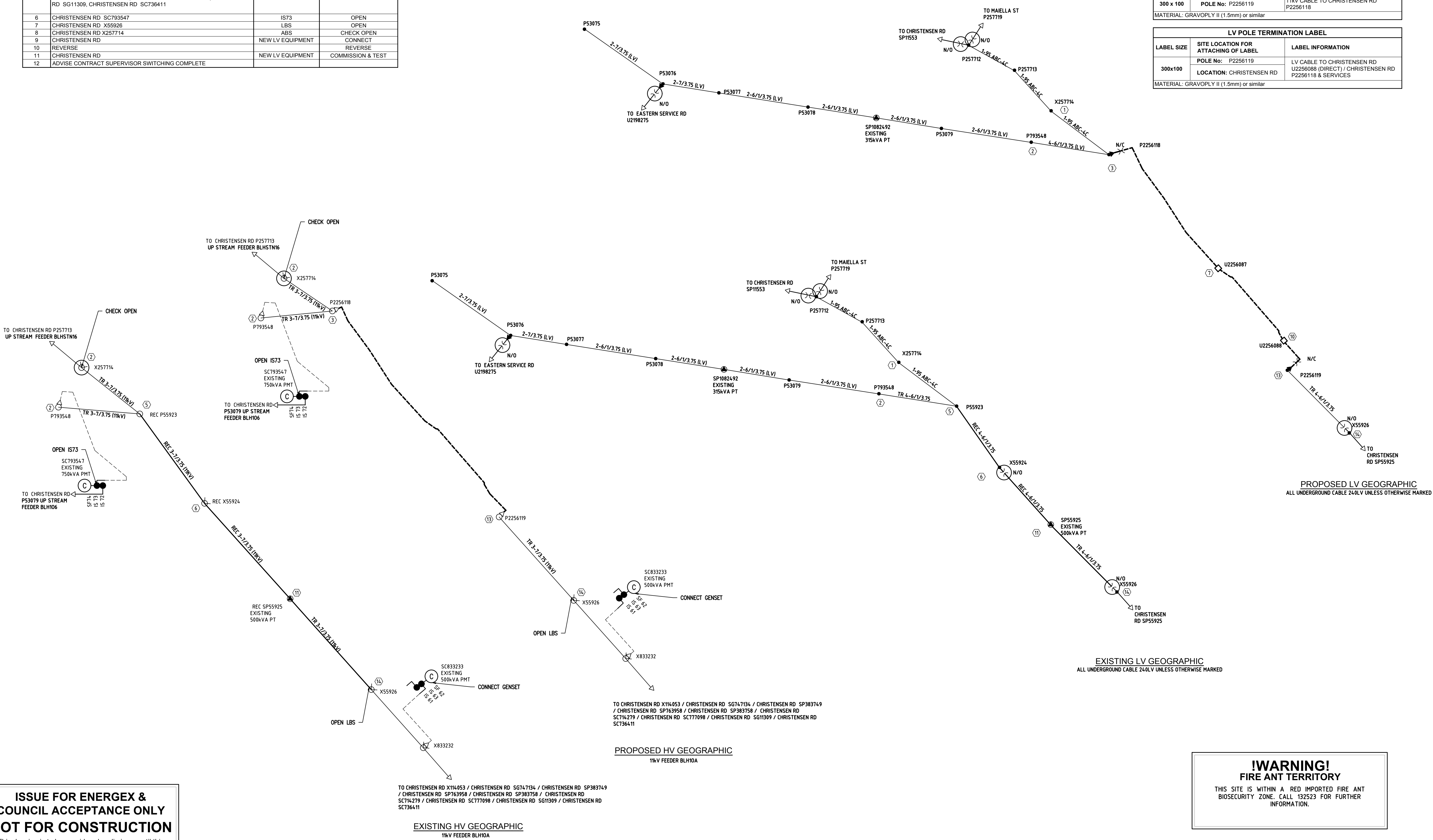
11kV FEEDER DESTINATION LABELS		
LOCATION:	CHRISTENSEN RD	
LABEL SIZE	STATION I.D	LABEL INFORMATION
300 x 100	POLE No: P2256119	11kV CABLE TO CHRISTENSEN RD P2256118
MATERIAL: GRAVOPLY II (1.5mm) or similar		

LV POLE TERMINATION LABEL		
LABEL SIZE	SITE LOCATION FOR ATTACHING OF LABEL	LABEL INFORMATION
300x100	POLE No: P2256119	LV CABLE TO CHRISTENSEN RD U2256088 (DIRECT) / CHRISTENSEN RD P2256118 & SERVICES
	LOCATION: CHRISTENSEN RD	
MATERIAL: GRAVOPLY II (1.5mm) or similar		

SYMBOL LEGEND	
	PROPOSED 40mm S/L
	PROPOSED ENERGEX 100mm COMMS
	PROPOSED 100mm
	PROPOSED 125mm
	EXISTING 40mm S/L
	EXISTING ENERGEX 100mm COMMS
	EXISTING 100mm
	EXISTING 125mm
	PROPOSED CABLE (AS MARKED)
	EXISTING CABLE (AS MARKED)
	PROPOSED UNDERGROUND HV/LV ROUTE
	EXISTING UNDERGROUND HV/LV ROUTE
	PROPOSED OVERHEAD HV/LV ROUTE
	EXISTING OVERHEAD HV/LV ROUTE
	PROPOSED S/L CABLE
	EXISTING S/L CABLE
	PADMOUNT TRANSFORMER
	PMT LV GEOGRAPHIC
	PMT HV GEOGRAPHIC
	RING MAIN UNIT
	RMU HV SCHEMATIC
	PROPOSED SUPPLY PILLAR
	EXISTING SUPPLY PILLAR
	PROPOSED LINK PILLAR
	EXISTING LINK PILLAR
	COMMERCIAL PILLAR
	EARTH
	PROPOSED TYPE 4 PIT
	EXISTING TYPE 4 PIT
	RECOVER EQUIPMENT
	11kV STRAIGHT JOINT
	OVERHEAD POLE TRANSFORMER
	OVERHEAD POLE (HV ONLY)
	OVERHEAD POLE (LV ONLY)
	OVERHEAD POLE (HV & LV)
	OVERHEAD HV TERMINATION
	OVERHEAD LV TERMINATION
	AIR BREAK SWITCH (OPEN)
	AIR BREAK SWITCH (CLOSED)
	DISCONNECT LINKS (OPEN)
	DISCONNECT LINKS (CLOSED)
	WATER METER
	SURVEY PEG

STREET LIGHT SYMBOL LEGEND	
	EXISTING M50 (RATE 2)

	EXISTING M50 (RATE 2)
ENERGEX NON-STANDARD TRENCH DETAILS (NTS)	



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DATE	30.08.21			SITE CONTACT DETAILS		COUNCIL STANDARD ALIGNMENTS		WORKS COORDINATOR	PETER EUSTACE & ASSOCIATES	APPROVED	SHIHABUL ISLAM	Peter Eustace & Associates		WORKSPLAN VERSION 5.5
R DESCRIPTION	A ISSUED FOR ENERGEX & COUNCIL ACCEPTANCE			NAME	Energex OH	Energex OH	PARENT PROJECT NO.			CHECKED	DAVID PRUSS	INSTALL CONDUITS, CABLES, POLES, PILLARS		SCALE: N.T.S.
				TBC	Energex UG	Energex UG	WORK REQUEST NO.			DESIGNER	ABRAHAM IKORO	HESTER STAGE 2 - YATALA STAPULTON JACOBS WELL ROAD		PROJECT / SUB PROJECT NO.
				COMPANY	NBN	REFER NBN				PLANNER	(07) 5596 1425	EARLY WORKS		S1301569
				-	GAS	REFER GAS	LOTS		NIL - EARLY WORKS	PHONE	(07) 5596 1425	CHRISTENSEN RD YATALA		Sheet 3 of 3
				PHONE	-	HP GAS	REFER GAS			PHONE	(07) 5596 1425			ISSUE NO: A
				MOBILE	-	WATER	REFER CIVIL	CANCELLING LOTS	LOT 501 on SP286984					
				FAX	-	STORMWATER	REFER CIVIL	LOCAL AUTHORITY	GOLD COAST CITY COUNCIL					
					SEWERAGE	REFER CIVIL	UBD REF			ISSUE DATE	30 AUGUST 2021			
					OTHER	REFER CIVIL	PEGGED?	YES						