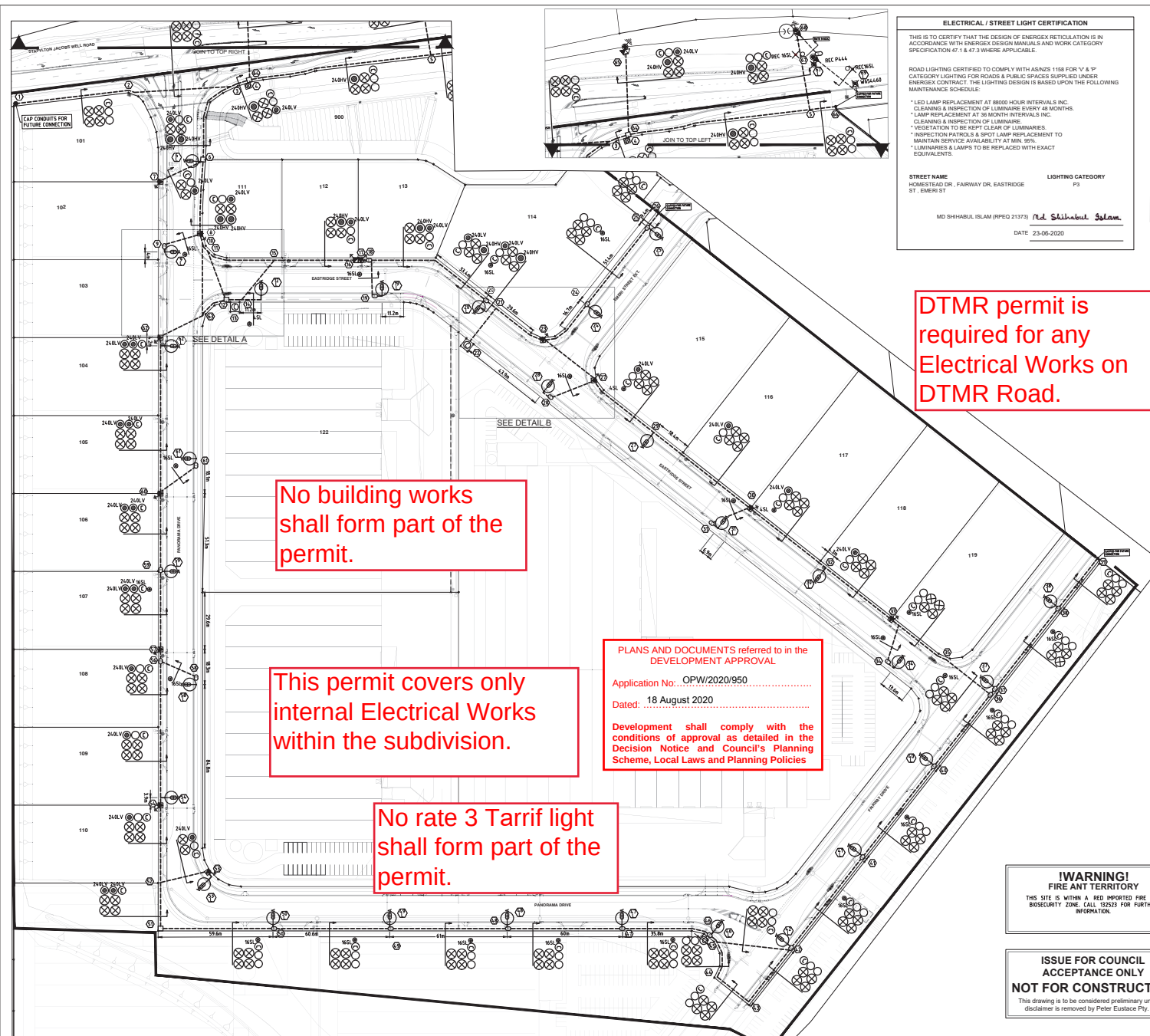




ELECTRICAL / STREET LIGHT CERTIFICATION

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.

ROAD LIGHTING CERTIFIED TO COMPLY WITH AS/NZS 1158 FOR 'V' & 'P' CATEGORY LIGHTING FOR ROADS & PUBLIC SPACES SUPPLIED UNDER ENERGEX CONTRACT. THE LIGHTING DESIGN IS BASED UPON THE FOLLOWING MAINTENANCE SCHEDULE:

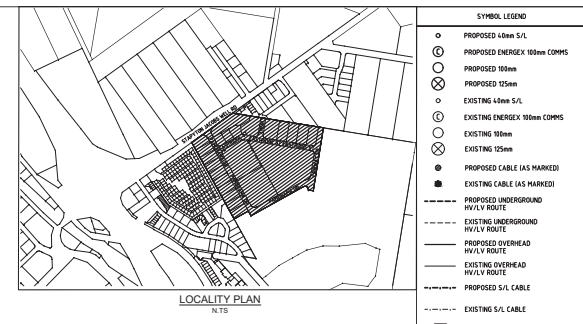
- * LED LAMP REPLACEMENT AT 8000 HOUR INTERVALS INC. CLEANING & INSPECTION OF LUMINAIRE EVERY 48 MONTHS.
- * LAMP REPLACEMENT AT 36 MONTH INTERVALS INC. CLEANING & INSPECTION OF LUMINAIRE.
- * VEGETATION TO BE KEPT CLEAR OF LUMINAIRES.
- * INSPECTION PATROLS & SPOT LAMP REPLACEMENT TO MAINTAIN SERVICE AVAILABILITY AT MIN. 90%.
- * LUMINAIRES & LAMPS TO BE REPLACED WITH EXACT EQUIVALENTS.

STREET NAME: HOMESTEAD DR., FAIRWAY DR, EASTRIDGE ST., EMERI ST.

LIGHTING CATEGORY: P3

MO SHIRAHUL ISLAM (RPEC 21373) *Md Shirahul Islam*

DATE: 23-06-2020



DTMR permit is required for any Electrical Works on DTMR Road.

No building works shall form part of the permit.

This permit covers only internal Electrical Works within the subdivision.

No rate 3 Tarrif light shall form part of the permit.

PLANS AND DOCUMENTS referred to in the DEVELOPMENT APPROVAL

Application No: OPW/2020/950

Dated: 18 August 2020

Development shall comply with the conditions of approval as detailed in the Decision Notice and Council's Planning Scheme, Local Laws and Planning Policies

**!WARNING!
FIRE ANT TERRITORY**

THIS SITE IS WITHIN A RED IMPORTED FIRE ANT BIOSECURITY ZONE. CALL 13233 FOR FURTHER INFORMATION.

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

This drawing is to be considered preliminary until this disclaimer is removed by Peter Eustace Pty. Ltd.

MAINTENANCE REGIME

Maintenance Factor Assumed: The maintenance factor assumed in the calculations is as follows:

- * Luminaire Maintenance Factor (refer AS 1158.1.1:2005 APPENDIX E).
- * Lamp Lumen Depreciation Factor (refer Lamp Manufacturer's "Lamp Lumen Depreciation Curve").

Maintenance Factor Calculated: **0.75**

Schedule of Maintenance: This road lighting design is based on the following maintenance schedule:

- * LED lamp replacement carried out at 8000 hrs intervals. Cleaning regime every 48 months.
- * All other luminaires lamp replacement & cleaning carried out at 36 month intervals.

At this time the following shall also occur:

- * All optical surfaces, both internal and external, of the luminaire shall be cleaned.
- * All glands shall be checked for deterioration and replaced where necessary.
- * Damaged/defuncted spacers shall be replaced.
- * All accessible screws, nuts etc. shall be checked for tightness.
- * A visual check shall be made of the electrical components and wiring for signs of overheating.
- * If required, the luminaire shall be realigned/adjusted to the design specification.

CERTIFICATE OF COMPLIANCE

DESIGN DOCUMENTATION IN ACCORDANCE WITH THE REQUIREMENTS OF COMPLIANCE OF AS/NZS 1158

- * Refer AS1158.1.1:2005 Appendix D for information regarding V category
- * Refer AS1158.3.1:2005 Appendix E for information regarding P category
- * Performed in 5.06 computer software used

ITEM	PROJECT SPECIFICATION
LIGHTING CATEGORY	
Nominate Lighting Category	P3
Road Surface Reflectance Characteristics	R3
INSTALLATION GEOMETRY	
Road Reserve Lighting Design Width	23m
Mounting Height	8m
Overhang	1.5m
Lighting Arrangement	ARR3
Pole Spacing	0.8 BxI
Upcast Angle	0°
LUMINAIRE/LAMP 1 DETAILS	
Lamp Type / Wattage	LSA
Luminaire Identification	Philips RoadFair
Lamp Flux (Lumens)	6900
I-Table Number (see)	BRP351 LEDDOWN 80W DIMV
Lighting Tarrif	
Power Factor	HFF (0.95)
Start/Run Currents (Amps)	0.223
IP Rating	IP66
LUMINAIRE BASED DESIGN - CATEGORY V LUMINAIRE/LAMP 1 TECHNICAL PARAMETER COMPLIANCE	
Spacing (m)	Normal Overhang
Average carriageway luminance (L) cd/m²	
Overall uniformity (U ₀)	
Longitudinal uniformity (U _L)	
Upward wasted light ratio (UWL/R) %	
Threshold increment (T _h) %	
Surround verge luminance (E _v) %	
Complies with standard	
LUMINAIRE BASED DESIGN - CATEGORY V TECHNICAL PARAMETER COMPLIANCE - "Design area" is intersection of a and a roads	
Point Horizontal Illuminance (E _h)	
Illuminance (Horizontal Uniformity) Cat V (U _h)	
CATEGORY P3 LUMINAIRE/LAMP 1 MAXIMUM SPACING CALC	
Average Horizontal Illuminance (E _h)	21.75 lx
Minimum Point Horizontal Illuminance (E _h)	28.2 lx
Illuminance Uniformity (U ₀)	919
Upward wasted light ratio (UWL/R) %	≤ 0%
Road Reserve Lighting Design Width (m)	Maximum Spacing (m)
23	90.2

SYMBOL LEGEND

- PROPOSED 400w S/L
- ⊙ PROPOSED ENERGEX 100mm COMPS
- ⊗ PROPOSED 150mm
- ⊙ EXISTING 400w S/L
- ⊙ EXISTING ENERGEX 100mm COMPS
- ⊗ EXISTING 150mm
- 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
- ⊕ PDMOUNT TRANSFORMER
- ⊙ PHT LV GEODRAPHIC
- ⊙ PHT HV GEODRAPHIC
- ⊙ RING MAIN UNIT
- ⊙ RNU 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
- ⊕ 1WV 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

- ⊕ RATE 2 LSA
- ⊕ EXISTING RATE 2 LSA
- ⊕ RECOVER S30 RATE 2
- ⊕ RECOVER M30 RATE 2

ENERGEX NON-STANDARD TRENCH SECTIONS

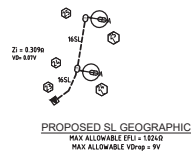
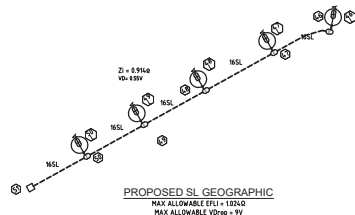
TC. ETC.

DETAIL SP1

DETAIL SP2

RATE 2 STREETLIGHT SCHEDULE																								
LOCATION	STN NO	SITE ID (POLE NO)	POLE or COMPONENTS										LANTERN				OUTREACH BRACKET						REMARKS	
			COMP ID	EXIST (m)	REC (m)	ERECT (m)	SLM or IN	ALGN (m)	COMP ID	EXIST	RECOVER CUST	DATE OF EMERG	ERECT CUST	DATE ENRG	SLM or IN	EXIST (m)	REC (m)	ERECT (m)	SLM or IN	MOUNT HEIGHT (m)				
HOMESTEAD DRIVE	6L	P2226562	PO 1			7.0 BPM	SB0015UC1	0.8 BK0	SL 1					L50AL2	GOCC		SLEDPH000A		1.5	-	9			
	48L	P2226564	PO 1			7.0 BPM	SB0015UC1	0.8 BK0	SL 1					L50AL2	GOCC		SLEDPH000A		1.5	-	9			
	47L	P2226565	PO 1			7.0 BPM	SB0015UC1	0.8 BK0	SL 1					L50AL2	GOCC		SLEDPH000A		1.5	-	9			
	46L	P2226566	PO 1			7.0 BPM	SB0015UC1	0.8 BK0	SL 1					L50AL2	GOCC		SLEDPH000A		1.5	-	9			
	45L	P2226567	PO 1			7.0 BPM	SB0015UC1	0.8 BK0	SL 1					L50AL2	GOCC		SLEDPH000A		1.5	-	9			
	44L	P2226568	PO 1			7.0 BPM	SB0015UC1	0.8 BK0	SL 1					L50AL2	GOCC		SLEDPH000A		1.5	-	9			
	43L	P2226569	PO 1			7.0 BPM	SB0015UC1	0.8 BK0	SL 1					L50AL2	GOCC		SLEDPH000A		1.5	-	9			
	42L	P2226570	PO 1			7.0 BPM	SB0015UC1	0.8 BK0	SL 1					L50AL2	GOCC		SLEDPH000A		1.5	-	9			
	41L	P2226571	PO 1			7.0 BPM	SB0015UC1	0.8 BK0	SL 1					L50AL2	GOCC		SLEDPH000A		1.5	-	9			
	40L	P2226572	PO 1			7.0 BPM	SB0015UC1	0.8 BK0	SL 1					L50AL2	GOCC		SLEDPH000A		1.5	-	9			
FAIRWAY DRIVE	39L	P2226573	PO 1			7.0 BPM	SB0015UC1	0.8 BK0	SL 1					L50AL2	GOCC		SLEDPH000A		1.5	-	9			
	38L	P2226574	PO 1			7.0 BPM	SB0015UC1	0.8 BK0	SL 1					L50AL2	GOCC		SLEDPH000A		1.5	-	9			
	37L	P2226575	PO 1			7.0 BPM	SB0015UC1	0.8 BK0	SL 1					L50AL2	GOCC		SLEDPH000A		1.5	-	9			
	36L	P2226576	PO 1			7.0 BPM	SB0015UC1	0.8 BK0	SL 1					L50AL2	GOCC		SLEDPH000A		1.5	-	9			
	35L	P2226577	PO 1			7.0 BPM	SB0015UC1	0.8 BK0	SL 1					L50AL2	GOCC		SLEDPH000A		1.5	-	9			
	34L	P2226578	PO 1			7.0 BPM	SB0015UC1	0.8 BK0	SL 1					L50AL2	GOCC		SLEDPH000A		1.5	-	9			
	33L	P2226579	PO 1			7.0 BPM	SB0015UC1	0.8 BK0	SL 1					L50AL2	GOCC		SLEDPH000A		1.5	-	9			
	32L	P2226580	PO 1			7.0 BPM	SB0015UC1	0.8 BK0	SL 1					L50AL2	GOCC		SLEDPH000A		1.5	-	9			
	31L	P2226581	PO 1			7.0 BPM	SB0015UC1	0.8 BK0	SL 1					L50AL2	GOCC		SLEDPH000A		1.5	-	9			
	30L	P2226582	PO 1			7.0 BPM	SB0015UC1	0.8 BK0	SL 1					L50AL2	GOCC		SLEDPH000A		1.5	-	9			
EASTRIDGE ST	29L	P2226583	PO 1			7.0 BPM	SB0015UC1	0.8 BK0	SL 1					L50AL2	GOCC		SLEDPH000A		1.5	-	9			
	28L	P2226584	PO 1			7.0 BPM	SB0015UC1	0.8 BK0	SL 1					L50AL2	GOCC		SLEDPH000A		1.5	-	9			
	27L	P2226585	PO 1			7.0 BPM	SB0015UC1	0.8 BK0	SL 1					L50AL2	GOCC		SLEDPH000A		1.5	-	9			
	26L	P2226586	PO 1			7.0 BPM	SB0015UC1	0.8 BK0	SL 1					L50AL2	GOCC		SLEDPH000A		1.5	-	9			
	25L	P2226587	PO 1			7.0 BPM	SB0015UC1	0.8 BK0	SL 1					L50AL2	GOCC		SLEDPH000A		1.5	-	9			
	24L	P2226588	PO 1			7.0 BPM	SB0015UC1	0.8 BK0	SL 1					L50AL2	GOCC		SLEDPH000A		1.5	-	9			
	23L	P2226589	PO 1			7.0 BPM	SB0015UC1	0.8 BK0	SL 1					L50AL2	GOCC		SLEDPH000A		1.5	-	9			
	22L	P2226590	PO 1			7.0 BPM	SB0015UC1	0.8 BK0	SL 1					L50AL2	GOCC		SLEDPH000A		1.5	-	9			
	21L	P2226591	PO 1			7.0 BPM	SB0015UC1	0.8 BK0	SL 1					L50AL2	GOCC		SLEDPH000A		1.5	-	9			
	20L	P2226592	PO 1			7.0 BPM	SB0015UC1	0.8 BK0	SL 1					L50AL2	GOCC		SLEDPH000A		1.5	-	9			
EMERI STREET	19L	P2226593	PO 1			7.0 BPM	SB0015UC1	0.8 BK0	SL 1					L50AL2	GOCC		SLEDPH000A		1.5	-	9			
	18L	P2226594	PO 1			7.0 BPM	SB0015UC1	0.8 BK0	SL 1					L50AL2	GOCC		SLEDPH000A		1.5	-	9			
	17L	P2226595	PO 1			7.0 BPM	SB0015UC1	0.8 BK0	SL 1					L50AL2	GOCC		SLEDPH000A		1.5	-	9			
	16L	P2226596	PO 1			7.0 BPM	SB0015UC1	0.8 BK0	SL 1					L50AL2	GOCC		SLEDPH000A		1.5	-	9			
	15L	P2226597	PO 1			7.0 BPM	SB0015UC1	0.8 BK0	SL 1					L50AL2	GOCC		SLEDPH000A		1.5	-	9			
	14L	P2226598	PO 1			7.0 BPM	SB0015UC1	0.8 BK0	SL 1					L50AL2	GOCC		SLEDPH000A		1.5	-	9			
	13L	P2226599	PO 1			7.0 BPM	SB0015UC1	0.8 BK0	SL 1					L50AL2	GOCC		SLEDPH000A		1.5	-	9			
	12L	P2226600	PO 1			7.0 BPM	SB0015UC1	0.8 BK0	SL 1					L50AL2	GOCC		SLEDPH000A		1.5	-	9			
	11L	P2226601	PO 1			7.0 BPM	SB0015UC1	0.8 BK0	SL 1					L50AL2	GOCC		SLEDPH000A		1.5	-	9			
	10L	P2226602	PO 1			7.0 BPM	SB0015UC1	0.8 BK0	SL 1					L50AL2	GOCC		SLEDPH000A		1.5	-	9			
STAPYLTON JACOBS WELL RD	9L	P2226603	PO 1			7.0 BPM	SB0015UC1	0.8 BK0	SL 1					L50AL2	GOCC		SLEDPH000A		1.5	-	9			
	8L	P2226604	PO 1			7.0 BPM	SB0015UC1	0.8 BK0	SL 1					L50AL2	GOCC		SLEDPH000A		1.5	-	9			
	7L	P2226605	PO 1			7.0 BPM	SB0015UC1	0.8 BK0	SL 1					L50AL2	GOCC		SLEDPH000A		1.5	-	9			
	6L	P2226606	PO 1			7.0 BPM	SB0015UC1	0.8 BK0	SL 1					L50AL2	GOCC		SLEDPH000A		1.5	-	9			
	5L	P2226607	PO 1			7.0 BPM	SB0015UC1	0.8 BK0	SL 1					L50AL2	GOCC		SLEDPH000A		1.5	-	9			
	4L	P2226608	PO 1			7.0 BPM	SB0015UC1	0.8 BK0	SL 1					L50AL2	GOCC		SLEDPH000A		1.5	-	9			
	3L	P2226609	PO 1			7.0 BPM	SB0015UC1	0.8 BK0	SL 1					L50AL2	GOCC		SLEDPH000A		1.5	-	9			
	2L	P2226610	PO 1			7.0 BPM	SB0015UC1	0.8 BK0	SL 1					L50AL2	GOCC		SLEDPH000A		1.5	-	9			
	1L	P2226611	PO 1			7.0 BPM	SB0015UC1	0.8 BK0	SL 1					L50AL2	GOCC		SLEDPH000A		1.5	-	9			
	0L	P2226612	PO 1			7.0 BPM	SB0015UC1	0.8 BK0	SL 1					L50AL2	GOCC		SLEDPH000A		1.5	-	9			

URD CIVIL WORKS SCHEDULE (ROAD CROSSINGS)																								
LOCATION	STATIONS FROM/TO	CONDUIT LENGTH (m)										BENDS (°/m)				X-SECTION (m)				KEYS MARK	REMARKS			
		40	NO	100C	NO	100	NO	125	NO	40	NO	100C	NO	100	NO	125	NO	EXCAV TAPE	COVER STOP			FRENCH DETAIL	DRAW WIRE	
HOMESTEAD DR	2 - 3					55	1	55	2	55	2							25	N	275	2			
	6 - 7					25	1	25	2	25	2							25	N	125	2			
	8 - 9	20	1															20	O	20	2			
	10 - 61					40	1	40	2	40	4							40	SP1	280	2			
	52 - 53					25	1	25	2	25	2							25	N	125	2			
	56 - 58	25	1															25	O	25	2			
	60 - 61	25	1															25	O	25	2			
FAIRWAY DR	62 - 63			25	1	25	2	25	4									25	SP1	175	2			
	35 - 36	30	1															30	SP2	240	2			
	42 - 45					40	1	40	2	40	4							40	SP1	280	2			
	43 - 44					30	1	30	2	30	2							30	SP1	210	2			
	11 - 12			30	1	30	2	30	2	30	2							30	N	150	2			
EASTRODGE ST	14 - 15			30	1	30	2	30	2									30	N	150	2			
	18 - 19	20	1															20	O	20	2			
	21 - 22			20	1	20	2	20	4									20	SP1	140	2			
	23 - 27			20	1	20	2	20	2									20	SP1	210	2			
	27 - 28	25	1															25	O	25	2			
	30 - 31	25	1															25	O	25	2			
	33 - 34	20	1															20	O	20	2			
STAPLYTON JACOBS WELL RD	4 - 65			50	1	50	2	50	4									50	SP1	390	2			
	5 - 68			40	1	40	2	40	4									40	SP1	280	2			
	TOTALS	190		380		760		1190										540		2520	38			



PLANS AND DOCUMENTS referred to in the DEVELOPMENT APPROVAL

Dated: 18 August 2020

Development shall comply with the conditions of approval as detailed in the Decision Notice and Council's Planning Scheme, Local Laws and Planning Policies

This drawing is to be considered preliminary until the disclaimer is removed by Peter Eustace Pty. Ltd.

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

○	PROPOSED 50mm S/L
⊙	PROPOSED ENDSIDE 100mm COMPS
⊗	PROPOSED 100mm
⊗	PROPOSED 150mm
○	EXISTING 40mm S/L
⊙	EXISTING ENDSIDE 100mm COMPS
⊗	EXISTING 100mm
⊗	EXISTING 150mm
●	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 HV GEOPADIC
⊙	PMT HV GEOPADIC
⊙	RING MAIN UNIT
⊙	RNH HV SCHEMATIC
■	PROPOSED SUPPLY PILLAR
■	EXISTING SUPPLY PILLAR
■	PROPOSED LINK PILLAR
■	EXISTING LINK PILLAR
■	COMMERICAL PILLAR
⊕	EARTH
⊕	PROPOSED TYPE 1 PIT
⊕	EXISTING TYPE 4 PIT
⊕	RECOVER EQUIPMENT
⊕	TVN STRAIGHT JOINT
●	OVERHEAD POLE TRANSFORMER
●	OVERHEAD POLE (HV ONLY)
●	OVERHEAD POLE (HV & LV)
●	OVERHEAD POLE (HV & LV)
▷	OVERHEAD HV TERMINATION
▷	OVERHEAD LV TERMINATION
⊕	AIR BREAK SWITCH (OPEN)
⊕	AIR BREAK SWITCH (CLOSED)
⊕	DISCONNECT LIMS (OPEN)
⊕	DISCONNECT LIMS (CLOSED)
⊕	WATER METER
+	SURVEY PEG

STREET LIGHT SYMBOL LEGEND

⊕	RATE 1.50A
⊕	EXISTING RATE 2.150A
⊕	RECOVER SSO (RATE 2)
⊕	RECOVER MTS (RATE3)

ENERGES NON-STANDARD TRACER SECTIONS

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DATE	29.06.2020	COUNCIL RESOLVED FOR ACCEPTANCE	 PE CONSULTING ENGINEERS	STREET ADDRESS PO Box 2813, Nanning QLD 4211 TELEPHONE (07) 5596 1425 EMAIL info@pece.com.au WEB www.pece.com.au		SITE CONTACT DETAILS		COUNCIL STANDARD ALIGNMENTS		WORKS COORDINATOR		PETER EUSTACE & ASSOCIATES		APPROVED	SHRIHABUL ISLAM	Peter Eustace & Associates		WORKSPLOM VERSION 5.5																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
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