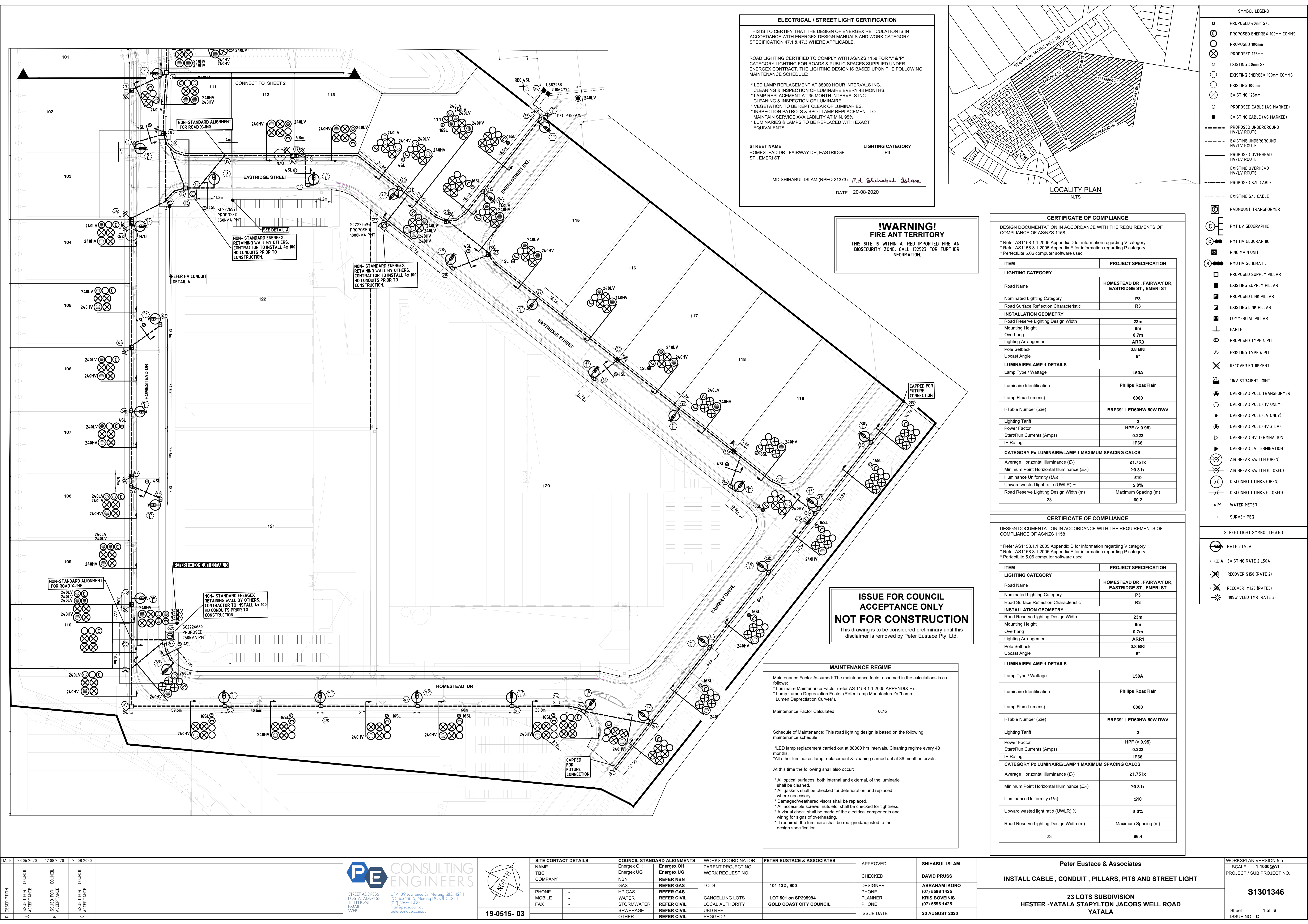




ELECTRICAL / STREET LIGHT CERTIFICATION

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 88000 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. 95%.
- * LUMINAIRES & LAMPS TO BE REPLACED WITH EXACT EQUIVALENTS.

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

LIGHTING CATEGORY
P3

MD SHIHABUL ISLAM (RPEQ 21373) *Md Shihabul Islam*

DATE 20-08-2020

!WARNING!
FIRE ANT TERRITORY

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

ISSUE FOR COUNCIL ACCEPTANCE ONLY
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 Curves").

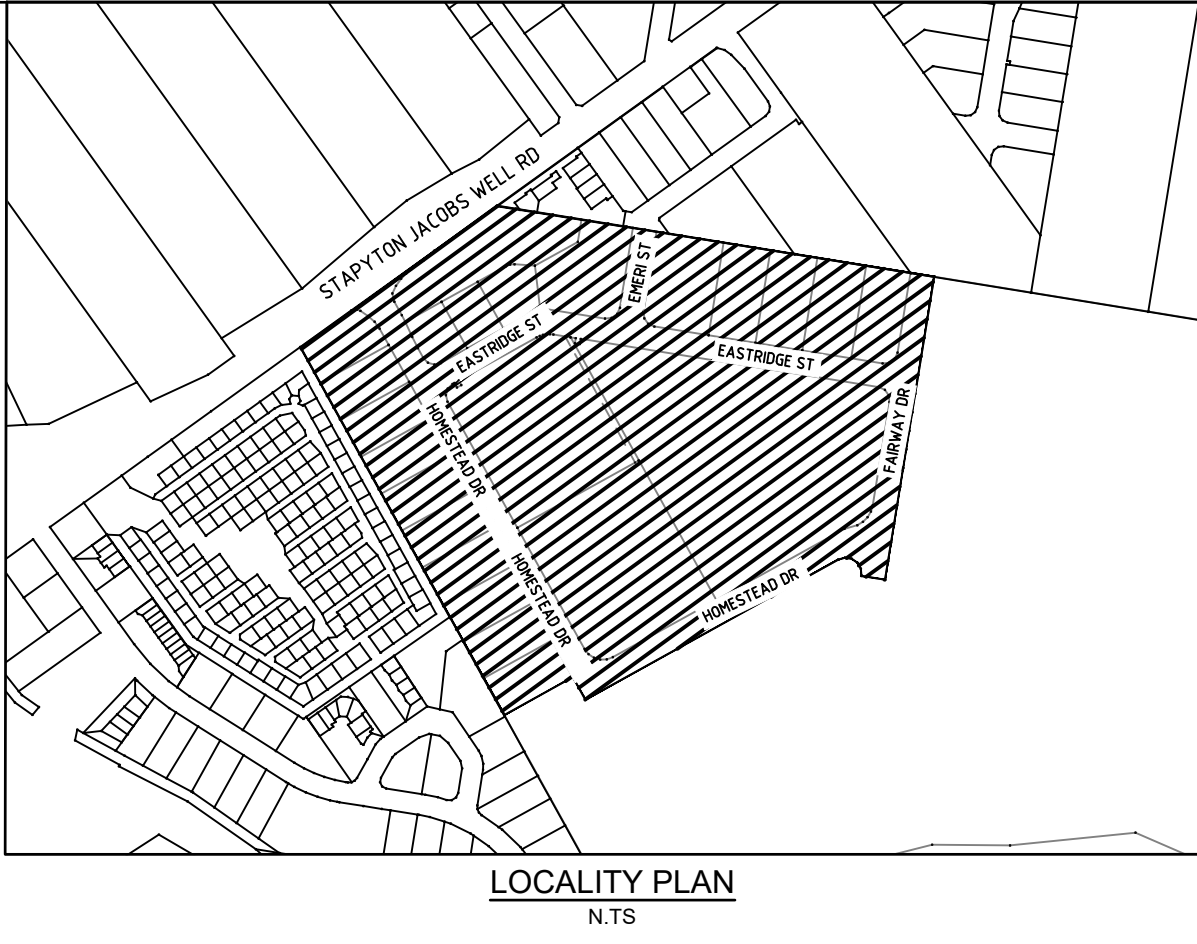
Maintenance Factor Calculated **0.75**

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

- * LED lamp replacement carried out at 88000 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 gaskets shall be checked for deterioration and replaced where necessary.
- * Damaged/weathered visors 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
* PerfectLite 5.06 computer software used

ITEM	PROJECT SPECIFICATION
LIGHTING CATEGORY	HOMESTEAD DR, FAIRWAY DR, EASTRIDGE ST, EMERI ST
Road Name	P3
Nominated Lighting Category	R3
Road Surface Reflection Characteristic	
INSTALLATION GEOMETRY	
Road Reserve Lighting Design Width	23m
Mounting Height	9m
Overhang	0.7m
Lighting Arrangement	ARR3
Pole Setback	0.8 BKI
Upcast Angle	5°
LUMINAIRE/LAMP 1 DETAILS	
Lamp Type / Wattage	L50A
Luminaire Identification	Philips RoadFlair
Lamp Flux (Lumens)	6000
I-Table Number (.cie)	BRP391 LED60NW 50W DWV
Lighting Tariff	2
Power Factor	HPF (> 0.95)
Start/Run Currents (Amps)	0.223
IP Rating	IP66
CATEGORY Px LUMINAIRE/LAMP 1 MAXIMUM SPACING CALCLS	
Average Horizontal Illuminance (E _a)	≥1.75 lx
Minimum Point Horizontal Illuminance (E _{min})	≥0.3 lx
Illuminance Uniformity (U _o)	≤10
Upward wasted light ratio (UWLRL) %	≤ 0%
Road Reserve Lighting Design Width (m)	Maximum Spacing (m)
23	60.2

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
* PerfectLite 5.06 computer software used

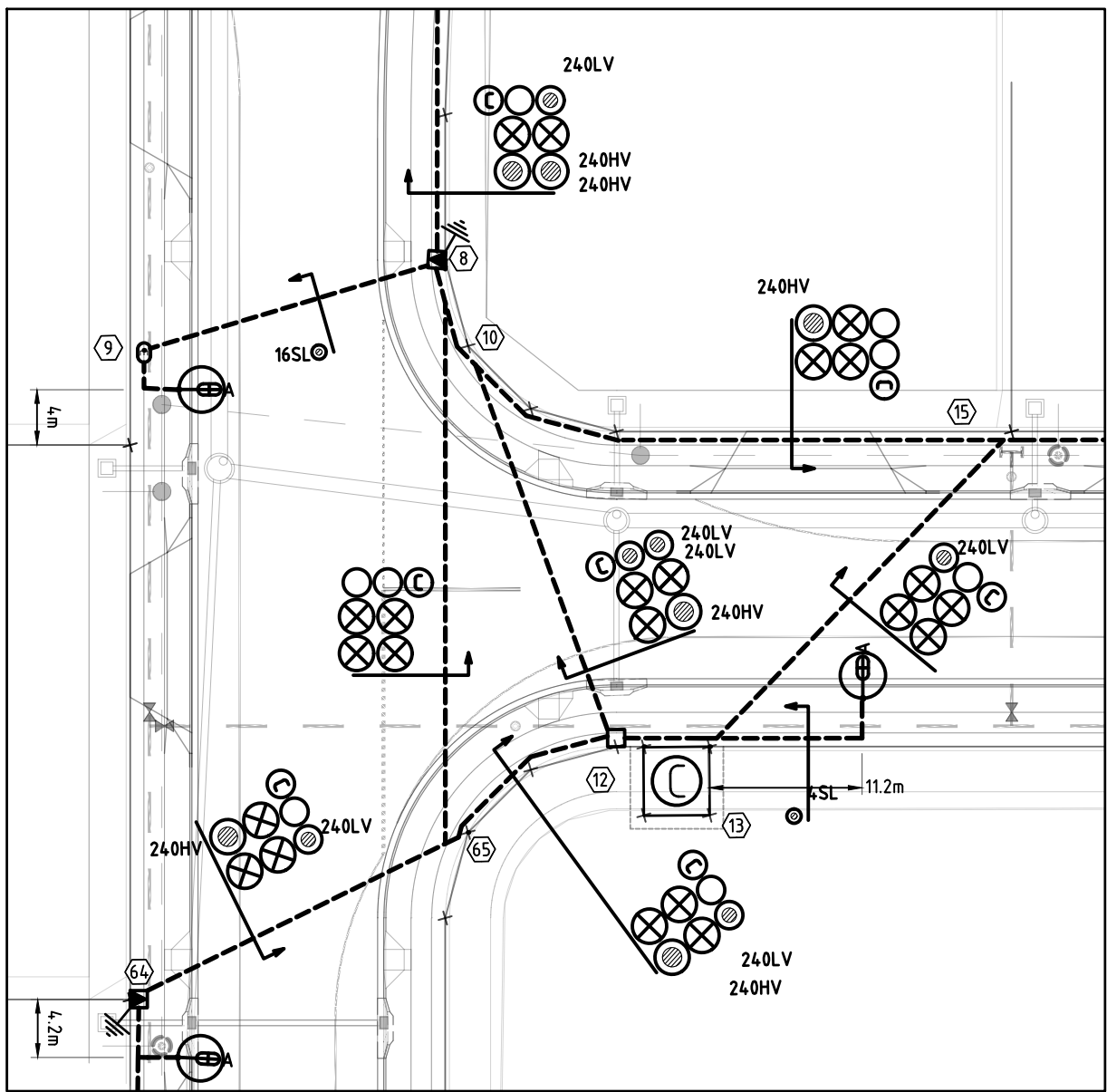
ITEM	PROJECT SPECIFICATION
LIGHTING CATEGORY	HOMESTEAD DR, FAIRWAY DR, EASTRIDGE ST, EMERI ST
Road Name	P3
Nominated Lighting Category	R3
Road Surface Reflection Characteristic	
INSTALLATION GEOMETRY	
Road Reserve Lighting Design Width	23m
Mounting Height	9m
Overhang	0.7m
Lighting Arrangement	ARR1
Pole Setback	0.8 BKI
Upcast Angle	5°
LUMINAIRE/LAMP 1 DETAILS	
Lamp Type / Wattage	L50A
Luminaire Identification	Philips RoadFlair
Lamp Flux (Lumens)	6000
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Lighting Tariff	2
Power Factor	HPF (> 0.95)
Start/Run Currents (Amps)	0.223
IP Rating	IP66
CATEGORY Px LUMINAIRE/LAMP 1 MAXIMUM SPACING CALCLS	
Average Horizontal Illuminance (E _a)	≥1.75 lx
Minimum Point Horizontal Illuminance (E _{min})	≥0.3 lx
Illuminance Uniformity (U _o)	≤10
Upward wasted light ratio (UWLRL) %	≤ 0%
Road Reserve Lighting Design Width (m)	Maximum Spacing (m)
23	66.4

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

- ⊠ RATE 2 L50A
- ⊠ EXISTING RATE 2 L50A
- ⊠ RECOVER S150 (RATE 2)
- ⊠ RECOVER M125 (RATE3)
- ⊠ 105W VLED THR (RATE 3)



UNDERGROUND CABLE SCHEDULE															
LOCATION	STATIONS FROM-TO	VOLTS	EXIST	TRF	REC	INSTALL	CABLE SIZE/TYPE	MODEL ID	ROUTE LENGTH (m)		CABLE LENGTH (m)		LOC	REMARKS	
									ENTR	EXIT	NEW	REC			
STAPLYTON JACOBS WELL RD	66 - 67	11kV				*	240mm ² 3 x 1C AL XLPE TRIPLEX	11AT240XSH	57	60					
	66 - 68	11kV				*	240mm ² 3 x 1C AL XLPE TRIPLEX	11AT240XSH	77	80					
	4 - 66	E				*	120mm ² Cu PVC/PVC	8939	7	10					
	4 - 67	LV				*	240mm ² 4C AL XLPE	LVA4240XPV	52	55					
	4 - 6	LV				*	240mm ² 4C AL XLPE	LVA4240XPV	55	50					
	70 - 71L	SL	*			*	16mm ² 2C Cu PVC/PVC	LVC216PVPV	27			30			
HOMESTEAD DR	44 - 52	11kV				*	240mm ² 3 x 1C AL XLPE TRIPLEX	11AT240XSH	332		335				
	6 - 7	LV				*	240mm ² 4C AL XLPE	LVA4240XPV	12		25				
	6 - 13	LV				*	240mm ² 4C AL XLPE	LVA4240XPV	82		85				
	8 - 12	LV				*	240mm ² 4C AL XLPE	LVA4240XPV	37		40				
	12 - 13	LV				*	240mm ² 4C AL XLPE	LVA4240XPV	7		10				
	13 - 64	LV				*	240mm ² 4C AL XLPE	LVA4240XPV	42		45				
	51 - 53	LV				*	240mm ² 4C AL XLPE	LVA4240XPV	52		55				
	52 - 53	LV				*	240mm ² 4C AL XLPE	LVA4240XPV	7		10				
	53 - 56	LV				*	240mm ² 4C AL XLPE	LVA4240XPV	42		45				
	52 - 58	LV				*	240mm ² 4C AL XLPE	LVA4240XPV	127		130				
	52 - 61	LV				*	240mm ² 4C AL XLPE	LVA4240XPV	207		210				
	61 - 63	LV				*	240mm ² 4C AL XLPE	LVA4240XPV	82		85				
	63 - 64	LV				*	185mm ² 4 x 1C Cu PVC	SC0007181	2		5				
	6 - 6L	SL				*	4mm ² 2C Cu PVC/PVC	LVC24PVPV	2		5				
	8 - 9L	SL				*	4mm ² 2C Cu PVC/PVC	LVC24PVPV	27		30				
	46 - 46L	SL				*	4mm ² 2C Cu PVC/PVC	LVC24PVPV	2		5				
	46 - 47	SL				*	16mm ² 2C Cu PVC/PVC	LVC216PVPV	47		50				
	47 - 47L	SL				*	4mm ² 2C Cu PVC/PVC	LVC24PVPV	2		5				
	47 - 48	SL				*	16mm ² 2C Cu PVC/PVC	LVC216PVPV	57		60				
	48 - 48L	SL				*	4mm ² 2C Cu PVC/PVC	LVC24PVPV	2		5				
	48 - 49	SL				*	16mm ² 2C Cu PVC/PVC	LVC216PVPV	62		65				
	49 - 49L	SL				*	4mm ² 2C Cu PVC/PVC	LVC24PVPV	2		5				
	49 - 50	SL				*	16mm ² 2C Cu PVC/PVC	LVC216PVPV	57		60				
	50 - 50L	SL				*	4mm ² 2C Cu PVC/PVC	LVC24PVPV	2		5				
	50 - 51	SL				*	16mm ² 2C Cu PVC/PVC	LVC216PVPV	57		60				
	53 - 53L	SL				*	4mm ² 2C Cu PVC/PVC	LVC24PVPV	32		35				
	56 - 56L	SL				*	4mm ² 2C Cu PVC/PVC	LVC24PVPV	7		10				
	58 - 59L	SL				*	4mm ² 2C Cu PVC/PVC	LVC24PVPV	27		30				
	58 - 60L	SL				*	4mm ² 2C Cu PVC/PVC	LVC24PVPV	52		55				
	61 - 62L	SL				*	4mm ² 2C Cu PVC/PVC	LVC24PVPV	32		35				
	63 - 63L	SL				*	4mm ² 2C Cu PVC/PVC	LVC24PVPV	7		10				
	EASTRIDGE ST	13 - 66	11kV				*	240mm ² 3 x 1C AL XLPE TRIPLEX	11AT240XSH	127		130			
		22 - 45	11kV				*	240mm ² 3 x 1C AL XLPE TRIPLEX	11AT240XSH	362		365			
13 - 52		11kV				*	240mm ² 3 x 1C AL XLPE TRIPLEX	11AT240XSH	337		340				
22 - 52		11kV				*	240mm ² 3 x 1C AL XLPE TRIPLEX	11AT240XSH	937		940				
12 - 16		LV				*	240mm ² 4C AL XLPE	LVA4240XPV	77		80				
16 - 17		LV				*	185mm ² 4 x 1C Cu PVC	SC0007181	2		5				
17 - 23		LV				*	240mm ² 4C AL XLPE	LVA4240XPV	97		100				
22 - 23		LV				*	240mm ² 4C AL XLPE	LVA4240XPV	47		50				
22 - 27		LV				*	240mm ² 4C AL XLPE	LVA4240XPV	87		90				
27 - 30		LV				*	240mm ² 4C AL XLPE	LVA4240XPV	107		110				
30 - 33		LV				*	240mm ² 4C AL XLPE	LVA4240XPV	92		95				
12 - 12L		SL				*	4mm ² 2C Cu PVC/PVC	LVC24PVPV	17		20				
17 - 19L		SL				*	4mm ² 2C Cu PVC/PVC	LVC24PVPV	27		30				
23 - 20L		SL				*	4mm ² 2C Cu PVC/PVC	LVC24PVPV	37		40				
27 - 27L		SL				*	16mm ² 2C Cu PVC/PVC	LVC216PVPV	47		50				
27 - 28L		SL				*	16mm ² 2C Cu PVC/PVC	LVC216PVPV	27		30				
30 - 31L		SL				*	16mm ² 2C Cu PVC/PVC	LVC216PVPV	22		25				
30 - 30L		SL				*	16mm ² 2C Cu PVC/PVC	LVC216PVPV	57		60				
33 - 34L		SL				*	16mm ² 2C Cu PVC/PVC	LVC216PVPV	32		35				
EMERI ST	33 - 36	SL				*	16mm ² 2C Cu PVC/PVC	LVC216PVPV	62		65				
	23 - 24	SL				*	16mm ² 2C Cu PVC/PVC	LVC216PVPV	27		30				
	24 - 25	SL				*	16mm ² 2C Cu PVC/PVC	LVC216PVPV	62		65				
	24 - 24L	SL				*	4mm ² 2C Cu PVC/PVC	LVC24PVPV	2		5				
	25 - 25L	SL				*	4mm ² 2C Cu PVC/PVC	LVC24PVPV	2		5				
FAIRWAY DR	26 - 26L	SL	*			*	4mm ² 2C Cu PVC/PVC	LVC24PVPV	12		15				
	44 - 45	11kV				*	240mm ² 3 x 1C AL XLPE TRIPLEX	11AT240XSH	227		230				
	36 - 37	SL				*	16mm ² 2C Cu PVC/PVC	LVC216PVPV	2		5				
	37 - 37L	SL				*	4mm ² 2C Cu PVC/PVC	LVC24PVPV	2		5				
	37 - 38	SL				*	16mm ² 2C Cu PVC/PVC	LVC216PVPV	52		55				
	38 - 38L	SL				*	4mm ² 2C Cu PVC/PVC	LVC24PVPV	52		55				
	38 - 40	SL				*	16mm ² 2C Cu PVC/PVC	LVC216PVPV	42		45				
	40 - 40L	SL				*	4mm ² 2C Cu PVC/PVC	LVC24PVPV	2		5				
TOTALS	40 - 41	SL				*	16mm ² 2C Cu PVC/PVC	LVC216PVPV	57		60				
	41 - 41L	SL				*	4mm ² 2C Cu PVC/PVC	LVC24PVPV	2		5				
	41 - 42	SL				*	16mm ² 2C Cu PVC/PVC	LVC216PVPV	57		60				
	42 - 42L	SL				*	4mm ² 2C Cu PVC/PVC	LVC24PVPV	2		5				
		11kV					240mm ² 3 x 1C AL XLPE TRIPLEX	11AT240XSH			2480				
		LV					185mm ² 4 x 1C Cu PVC	LVA4240XPV			1370				
	E					16mm ² 4C Cu XLPE	LVA4240XPV			10					
	SL					120mm ² Cu PVC/PVC	8939			10					
	SL					16mm ² 2C Cu PVC/PVC	LVC216PVPV			880		30			
	SL					4mm ² 2C Cu PVC/PVC	LVC24PVPV			410		15			

**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.

SYMBOL LEGEND	
	PROPOSED 4.0mm S/L
	PROPOSED ENERGENEX 100mm COMMS
	PROPOSED 100mm
	PROPOSED 125mm
	EXISTING 4.0mm S/L
	EXISTING ENERGENEX 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	
	RATE 2 L50A
	EXISTING RATE 2 L50A
	RECOVER S150 (RATE 2)
	RECOVER M125 (RATE 3)
	105W VLED TMR (RATE 3)

DATE	23.06.2020	12.08.2020	20.08.2020
R DESCRIPTION	A ISSUED FOR COUNCIL ACCEPTANCE	B ISSUED FOR COUNCIL ACCEPTANCE	C ISSUED FOR COUNCIL ACCEPTANCE



STREET ADDRESS:
POSTAL ADDRESS:
TELEPHONE:
EMAIL:
WEB:

U14, 59 Lawrence Dr, Nareng QLD 4211
PO Box 2835, Nareng DC QLD 4211
(07) 5590 1425
mail@pece.com.au
petereustace.com.au



19-0515- 04

SITE CONTACT DETAILS	COUNCIL STANDARD ALIGNMENTS	WORKS COORDINATOR	PETER EUSTACE & ASSOCIATES
NAME Energex OH	Energex OH	PARENT PROJECT NO.	APPROVED SHIHABUL ISLAM
TBC Energex UG	Energex UG	WORK REQUEST NO.	
COMPANY -	NBN REFER NBN	GAS REFER GAS	CHECKED DAVID PRUSS
PHONE -	HP GAS REFER GAS	LOTS 101-122 , 900	DESIGNER ABRAHAM IKORO (07) 5596 1425
MOBILE -	WATER REFER CIVIL	CANCELLING LOTS LOT 501 ON SP259994	PLANNER KRIS BOVEINIS (07) 5596 1425
FAX -	STORMWATER REFER CIVIL	LOCAL AUTHORITY GOLD COAST CITY COUNCIL	ISSUE DATE 20 AUGUST 2020
	SEWERAGE REFER CIVIL	UBD REF PEGGED?	
	OTHER REFER CIVIL		

Peter Eustace & Associates

INSTALL CABLE , CONDUIT , PILLARS, PITS AND STREET LIGHT

23 LOTS SUBDIVISION

HESTER -YATALA STAYTLTON JACOBS WELL ROAD

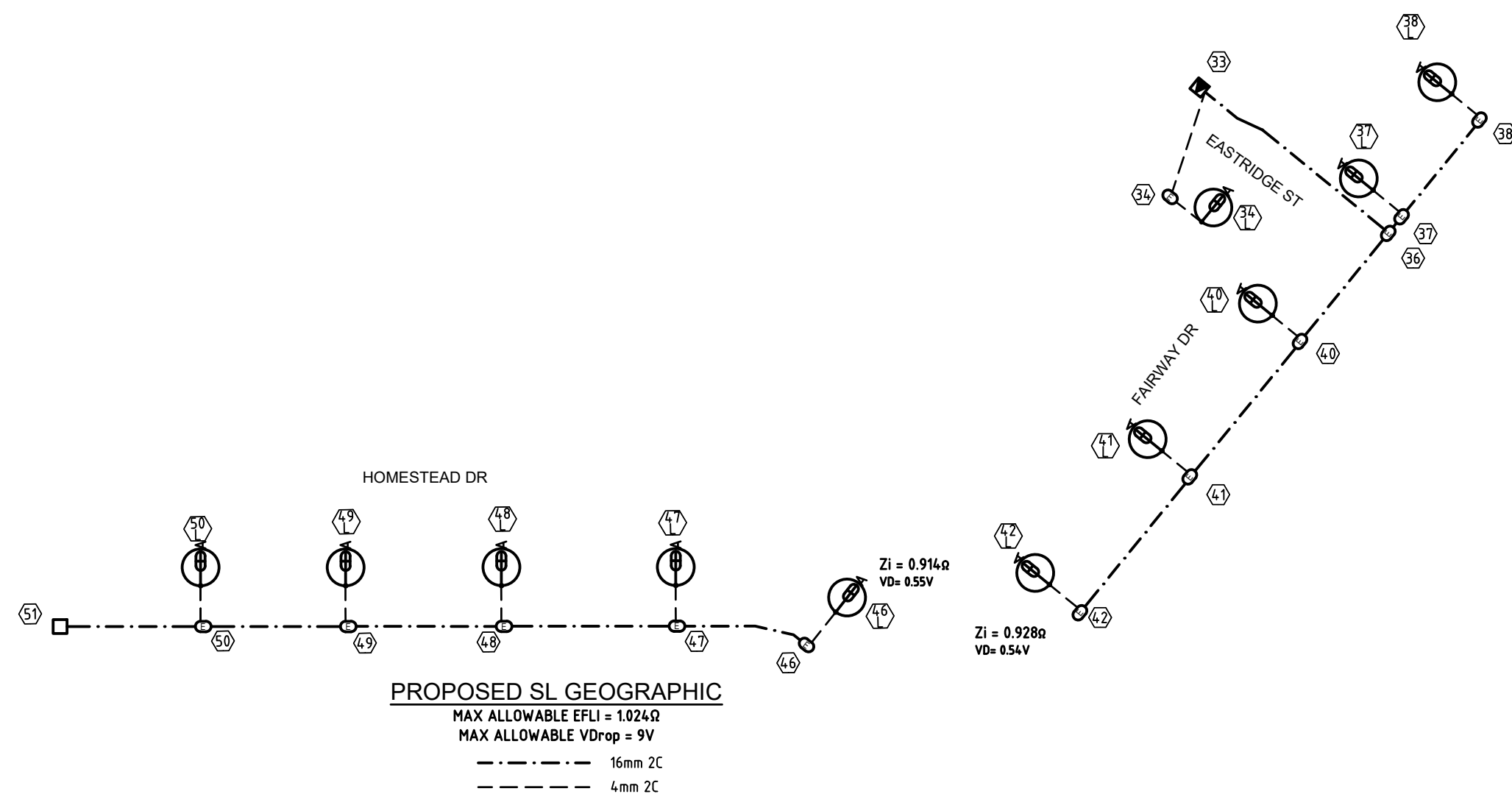
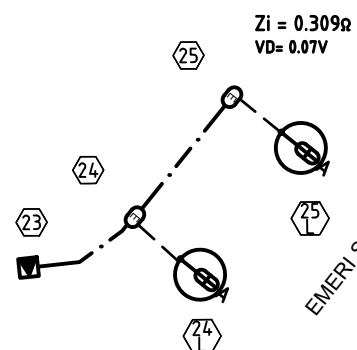
YATALA

S1301346

Sheet 2 of 6
Issue No. C

WORKSPAN VERSION 5.5
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 PROJECT / SUB PROJECT NO.

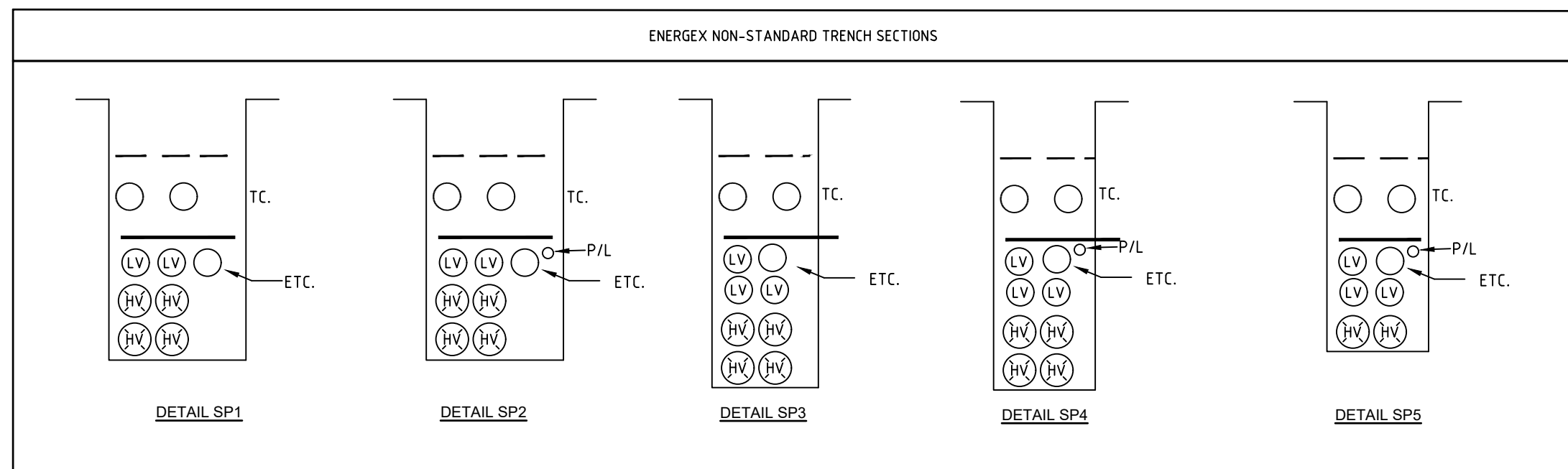
EQUIPMENT SCHEDULE PART 2													
LOCATION	STN No	SITE I.D.	EXIST	REC	INSTALL	SIZE & DESCRIPTION	IIN	COMP ID	PLANT No.	MODEL ID	QTY	LCC	REMARKS
EASTRIDGE ST	12	U2226590			*	SUPPLY PILLAR (240-240-240 7F)		P11		LVSP9-6S	1		
	13	SC2226591			*	750KVA PADMOUNT TRANSFORMER		TR1		S25119	1		
					*	CULVERT & BASE				C & B	1		
					*	PMT INSTALLATION				PMTINSTALL	1		
					*	PMT COMMISSION				PMTCOM	1		
					*	HV FUSES				DSHVF7SLK	1		
					*	LV FUSES				DSLVF31	3		
					*	HV TERMINATIONS				2DBSTA24D	2		
					*	LV TERMINATIONS				LTA24D	3		
					*	COMMON EARTHING				DSSQPMCEG	1		
	16	LP2226592			*	LINK PILLAR (240-240 6F)		LP1		LVSP14-6	1		
					*	EARTH				ASSY1037-1	1		
	17	U2226593			*	C + I PILLAR		C11		LVLP400CFS	1		
					*	SIL FUSE				ASSY801-1	1		
					*	SIL FUSE HOLDER				ASSY1043-3	1		
					*	EARTH				ASSY1037-1	1		
	18				*	SIL PIT & LID (TYPE 4)		PIT1		ASSY833-1	1		
	19				*	SIL PIT & LID (TYPE 4)		PIT1		ASSY833-1	1		
	20				*	SIL PIT & LID (TYPE 4)		PIT1		ASSY833-1	1		
	22	SC2226594			*	1000KVA PADMOUNT TRANSFORMER		TR1		S25120	1		
				*	CULVERT & BASE				C & B	1			
				*	PMT INSTALLATION				PMTINSTALL	1			
				*	PMT COMMISSION				PMTCOM	1			
				*	HV FUSES				DSHVF10SLK	1			
				*	LV FUSES				DSLVF31	2			
				*	HV TERMINATIONS				2DBSTA24D	2			
				*	LV TERMINATIONS				LTA24D	2			
				*	COMMON EARTHING				DSSQPMCEG	1			
23	U2226595			*	C + I PILLAR		C11		LVLP400CFS	1			
				*	SIL FUSE				ASSY801-1	1			
				*	SIL FUSE HOLDER				ASSY1043-3	1			
27	U2226596			*	C + I PILLAR		C11		LVLP400CFS	1			
				*	SIL FUSE				ASSY801-1	1			
				*	SIL FUSE HOLDER				ASSY1043-3	1			
				*	EARTH				ASSY1037-1	1			
28				*	SIL PIT & LID (TYPE 4)		PIT1		ASSY833-1	1			
30	U2226597			*	C + I PILLAR		C11		LVLP400CFS	1			
				*	FUSES					2			
				*	SIL FUSE				ASSY801-1	1			
				*	SIL FUSE HOLDER				ASSY1043-3	1			
				*	EARTH				ASSY1037-1	1			
31				*	SIL PIT & LID (TYPE 4)		PIT1		ASSY833-1	1			
33	U2226598			*	C + I PILLAR		C11		LVLP400CFS	1			
				*	SIL FUSE				ASSY801-1	1			
				*	SIL FUSE HOLDER				ASSY1043-3	1			
				*	EARTH				ASSY1037-1	1			
34				*	SIL PIT & LID (TYPE 4)		PIT1		ASSY833-1	1			
EMERI ST	24			*	SIL PIT & LID (TYPE 4)		PIT1		ASSY833-1	1			
				*	JUNCTION BOX KIT (NO FUSE)				ASSY833-5	1			
	25			*	SIL PIT & LID (TYPE 4)		PIT11		ASSY833-1	1			
				*	JUNCTION BOX KIT (NO FUSE)				ASSY833-5	1			
26	U382968		*	*	SERVICE PILLAR		P11		EX	EX	1		
FAIRWAY DR	36			*	SIL PIT & LID (TYPE 4)		PIT1		ASSY833-1	1			
				*	JUNCTION BOX KIT (NO FUSE)				ASSY833-5	1			
	37			*	SIL PIT & LID (TYPE 4)		PIT1		ASSY833-1	1			
				*	JUNCTION BOX KIT (NO FUSE)				ASSY833-5	1			
	38			*	SIL PIT & LID (TYPE 4)		PIT1		ASSY833-1	1			
				*	JUNCTION BOX KIT (NO FUSE)				ASSY833-5	1			
	40			*	SIL PIT & LID (TYPE 4)		PIT1		ASSY833-1	1			
				*	JUNCTION BOX KIT (NO FUSE)				ASSY833-5	1			
	41			*	SIL PIT & LID (TYPE 4)		PIT1		ASSY833-9	1			
				*	JUNCTION BOX KIT (NO FUSE)				ASSY833-13	1			
42			*	SIL PIT & LID (TYPE 4)		PIT1		ASSY833-1	1				
			*	JUNCTION BOX KIT (NO FUSE)				ASSY833-5	1				
45	U2226796			*	11KV STRAIGHT JOINT		SJ1		11ST24-24X	1			
STAPLYTON JACOBS WELL RD	4	U2226599			*	SUPPLY PILLAR (240-240 6F)		P11		LVSP4-6	1		
	66	X2226600			*	ABB SAFELINK 2 'C'CC' RMU - OUTDOOR		RM1		34142	1		
				*	OUTDOOR ENCLOSURE				20732	1			
				*	CONCRETE PLYNTH				20735	1			
				*	BASE SLAB FOR UNICULVERT				19960	1			
				*	BOX CULVERT FOUNDATION				19566	1			
				*	STEEL SUPPORT CHANNELS				18454	3			
				*	EARTH GRID				DSGT4EGS	1			
			*	EARTH TAILS TO RMU				DSRMEGT	1				
			*	11KV TERMINATION				1SGTPM9524XG	4				



EQUIPMENT SCHEDULE PART 1													
LOCATION	STN No	SITE I.D.	EXIST	REC	INSTALL	SIZE & DESCRIPTION	IIN	COMP ID	PLANT No.	MODEL ID	QTY	LCC	REMARKS
HOMESTEAD DRIVE	6	U2226601			*	SUPPLY PILLAR (240-240-240 7F)		PI1		LVPSP-6S	1		
	7	U2226602			*	C + I PILLAR		CI1		LVLPA400CFS	1		
					*	EARTH				ASSY1037-1	1		
	8	U2226603			*	C + I PILLAR		CI1		LVLPA400CFS	1		
					*	S/L FUSE				ASSY801-1	1		
					*	S/L FUSE HOLDER				ASSY1043-3	1		
					*	EARTH				ASSY1037-1	1		
	9				*	S/L PIT & LID (TYPE 4)		PIT1		ASSY833-1	1		
	44	U2226795			*	11KV STRAIGHT JOINT		SJ1		11ST24/24X	1		
	46				*	S/L PIT & LID (TYPE 4)		PIT1		ASSY833-1	1		
					*	JUNCTION BOX KIT (NO FUSE)				ASSY833-5	1		
	47				*	S/L PIT & LID (TYPE 4)		PIT1		ASSY833-1	1		
					*	JUNCTION BOX KIT (NO FUSE)				ASSY833-5	1		
	48				*	S/L PIT & LID (TYPE 4)		PIT1		ASSY833-1	1		
					*	JUNCTION BOX KIT (NO FUSE)				ASSY833-5	1		
	49				*	S/L PIT & LID (TYPE 4)		PIT1		ASSY833-1	1		
					*	JUNCTION BOX KIT (NO FUSE)				ASSY833-5	1		
	50				*	S/L PIT & LID (TYPE 4)		PIT1		ASSY833-1	1		
					*	JUNCTION BOX KIT (NO FUSE)				ASSY833-5	1		
	51	U2226605			*	SUPPLY PILLAR (240 7F)		PI1		LVPSP2-6S	1		
					*	EARTH				ASSY1011-2	1		
	52	SC2226680			*	750KVA PADMOUNT TRANSFORMER		TR1		S25119	1		
					*	CULVERT & BASE				C & B	1		
					*	PMT INSTALLATION				PMTINSTALL	1		
					*	PMT COMMISSION				PMTCOM	1		
					*	HV FUSES				DSHVVF7SLK	1		
					*	LV FUSES				DSLVEF31	3		
					*	HV TERMINATIONS				2DBSTA24D	2		
					*	LV TERMINATIONS				LTSa24D	3		
					*	COMMON EARTHING				DSSQPMCEG	1		
	53	U2226604			*	SUPPLY PILLAR (240-240-240 7F)		PI1		LVPSP-6S	1		
	56	U2226606			*	C + I PILLAR		CI1		LVLPA400CFS	1		
				*	S/L FUSE				ASSY801-1	1			
				*	S/L FUSE HOLDER				ASSY1043-3	1			
				*	EARTH				ASSY1037-1	1			
57				*	S/L PIT & LID (TYPE 4)		PIT1		ASSY833-1	1			
58	U2226607			*	C + I PILLAR		CI1		LVLPA400CFS	1			
				*	S/L FUSE				ASSY801-1	1			
				*	S/L FUSE HOLDER				ASSY1043-3	1			
				*	EARTH				ASSY1037-1	1			
59				*	S/L PIT & LID (TYPE 4)		PIT1		ASSY833-1	1			
60				*	S/L PIT & LID (TYPE 4)		PIT1		ASSY833-1	1			
61	U2226609			*	C + I PILLAR		CI1		LVLPA400CFS	1			
				*	S/L FUSE				ASSY801-1	1			
				*	S/L FUSE HOLDER				ASSY1043-3	1			
				*	EARTH				ASSY1037-1	1			
62				*	S/L PIT & LID (TYPE 4)		PIT1		ASSY833-1	1			
63	LP2226681			*	LINK PILLAR (240-240 7F)		LP1		LVPSP14-6	1			
				*	S/L FUSE				ASSY801-1	1			
				*	S/L FUSE HOLDER				ASSY1043-3	1			
				*	EARTH				ASSY1037-1	1			
64	U2226610			*	C + I PILLAR		CI1		LVLPA400CFS	1			
				*	S/L FUSE				ASSY801-1	1			
				*	S/L FUSE HOLDER				ASSY1043-3	1			
				*	EARTH				ASSY1037-1	1			

RATE 2 STREETLIGHT SCHEDULE																								
LOCATION	STN NO	SITE ID (POLE NO)	POLE or COMPONENTS						LANTERN						OUTREACH BRACKET				MOUNT HEIGHT (m)	REMARKS				
			COMP ID	EXIST (m)	REC (m)	ERECT (m)	SLM or IIN	ALIGN (m)	COMP	EXIST	RECOVER LUMIN	RECOVER CUST	DATE DE-ENERG	ERECT (m)	CUST	DATE ENERG	SLM or IIN	EXIST (m)			REC (m)	ERECT (m)	SLM or IIN	
HOMESTEAD DRIVE	6L	P2226562	PO 1				7.0 BPM	SB90115UCI	0.8 BKI	SL 1					L50AL2	GCCC		SLDPH0509A		1.5	-	9		
	9L	P2226563	PO 1				7.0 BPM	SB90115UCI	0.8 BKI	SL 1					L50AL2	GCCC		SLDPH0509A		1.5	-	9		
	46L	P2226564	PO 1				7.0 BPM	SB90115UCI	0.8 BKI	SL 1					L50AL2	GCCC		SLDPH0509A		1.5	-	9		
	47L	P2226565	PO 1				7.0 BPM	SB90115UCI	0.8 BKI	SL 1					L50AL2	GCCC		SLDPH0509A		1.5	-	9		
	48L	P2226566	PO 1				7.0 BPM	SB90115UCI	0.8 BKI	SL 1					L50AL2	GCCC		SLDPH0509A		1.5	-	9		
	49L	P2226567	PO 1				7.0 BPM	SB90115UCI	0.8 BKI	SL 1					L50AL2	GCCC		SLDPH0509A		1.5	-	9		
	50L	P2226568	PO 1				7.0 BPM	SB90115UCI	0.8 BKI	SL 1					L50AL2	GCCC		SLDPH0509A		1.5	-	9		
	53L	P2226569	PO 1				7.0 BPM	SB90115UCI	0.8 BKI	SL 1					L50AL2	GCCC		SLDPH0509A		1.5	-	9		
	56L	P2226570	PO 1				7.0 BPM	SB90115UCI	0.8 BKI	SL 1					L50AL2	GCCC		SLDPH0509A		1.5	-	9		
	59L	P2226571	PO 1				7.0 BPM	SB90115UCI	0.8 BKI	SL 1					L50AL2	GCCC		SLDPH0509A		1.5	-	9		
	60L	P2226572	PO 1				7.0 BPM	SB90115UCI	0.8 BKI	SL 1					L50AL2	GCCC		SLDPH0509A		1.5	-	9		
		62L	P2226573	PO 1				7.0 BPM	SB90115UCI	0.8 BKI	SL 1					L50AL2	GCCC		SLDPH0509A		1.5	-	9	
		63L	P2226574	PO 1				7.0 BPM	SB90115UCI	0.8 BKI	SL 1					L50AL2	GCCC		SLDPH0509A		1.5	-	9	
	FAIRWAY DRIVE	37L	P2226575	PO 1				7.0 BPM	SB90115UCI	0.8 BKI	SL 1					L50AL2	GCCC		SLDPH0509A		1.5	-	9	
38L		P2226576	PO 1				7.0 BPM	SB90115UCI	0.8 BKI	SL 1					L50AL2	GCCC		SLDPH0509A		1.5	-	9		
40L		P2226577	PO 1				7.0 BPM	SB90115UCI	0.8 BKI	SL 1					L50AL2	GCCC		SLDPH0509A		1.5	-	9		
41L		P2226578	PO 1				7.0 BPM	SB90115UCI	0.8 BKI	SL 1					L50AL2	GCCC		SLDPH0509A		1.5	-	9		
EASTRIDGE ST	42L	P2226579	PO 1				7.0 BPM	SB90115UCI	0.8 BKI	SL 1					L50AL2	GCCC		SLDPH0509A		1.5	-	9		
	12L	P2226580	PO 1				7.0 BPM	SB90115UCI	0.8 BKI	SL 1					L50AL2	GCCC		SLDPH0509A		1.5	-	9		
EMERI STREET	19L	P2226581	PO 1				7.0 BPM	SB90115UCI	0.8 BKI	SL 1					L50AL2	GCCC		SLDPH0509A		1.5	-	9		
	20L	P2226582	PO 1				7.0 BPM	SB90115UCI	0.8 BKI	SL 1					L50AL2	GCCC		SLDPH0509A		1.5	-	9		
	27L	P2226584	PO 1				7.0 BPM	SB90115UCI	0.8 BKI	SL 1					L50AL2	GCCC		SLDPH0509A		1.5	-	9		
	28L	P2226583	PO 1				7.0 BPM	SB90115UCI	0.8 BKI	SL 1					L50AL2	GCCC		SLDPH0509A		1.5	-	9		
	30L	P2226585	PO 1				7.0 BPM	SB90115UCI	0.8 BKI	SL 1					L50AL2	GCCC		SLDPH0509A		1.5	-	9		
	31L	P2226586	PO 1				7.0 BPM	SB90115UCI	0.8 BKI	SL 1					L50AL2	GCCC		SLDPH0509A		1.5	-	9		
	34L	P2226587	PO 1				7.0 BPM	SB90115UCI	0.8 BKI	SL 1					L50AL2	GCCC		SLDPH0509A		1.5	-	9		
	34L	P2226588	PO 1				7.0 BPM	SB90115UCI	0.8 BKI	SL 1					L50AL2	GCCC		SLDPH0509A		1.5	-	9		
	25L	P2226589	PO 1				7.0 BPM	SB90115UCI	0.8 BKI	SL 1					L50AL2	GCCC		SLDPH0509A		1.5	-	9		
	26L	P382975	PO 1	7.0 BIG	7.0 BIG		EX	EX	SL 1	M50D	M50DL2	GCCC				EX		1.5	1.5			-	9	

RATE 3 STREETLIGHT SCHEDULE																				
LOCATION	STN No	SITE ID (POLE No)	POLE or COMPONENTS					LANTERN							OUTREACH BRACKET				MOUNT HEIGHT (m)	REMARKS
			COMP ID	EXIST (m)	REC (m)	ALIGN (m)	COMP ID	EXIST	RECOVER		DATE EN-ERG	ERECT		DATE EN-ERG	SLM or IIN	EXIST (m)	REC (m)	ERECT (m)		
STAPYLTON JACOBS WELL RD	70L	P444	PO 1	WOOD	POLE		EX	SL 1		M125L3	GCCC					EX				EX
	71L	W654460	PO 1	8.5BPM	8.5BPM		EX	EX	SL 1		S150L3	DTMR				EX		3.0		10.5



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

OVERHEAD WORKS SCHEDULE																								
LOCATION	STN No.	SITE I.D (POLE No)	EDT ANG	EDT kN	SST kN	LST kN	EXISTING	RECOVER	POLES					CONSTRUCTIONS (Note: KBS is top KB to top KB)							REMARKS			
									ERECT	SINK	FOOT	COMP ID	ALIGN	LCC	EXISTING	RECOVER	ERECT	No	KBS	ANG		LCC		
STAPYLTON JACOBS WELL RD	67	P2226538	EX -	EX -	EX -	EX -	P15.5/12-22			2.7	MDCF	PO1	EX		11TD/NPLS		PAGE7-53-2 11BRAL/240XL 11PTTRIPXW LVABC/SU4 SC0010604 LVBR240/ABC LVT4C240/HV LVABC/DS2 MEN	1 3 1 1 1 1 1 1 1 1 1	150 1400 1550 500					
	68	P2226539	-	-	-	-	P15.5/12-22			2.7	MDCF	PO1	EX		11TD/NPLS		PAGE7-53-2 11BRAL/240XL 11PTTRIPXW LVABC/SU4 SC00010604 CGEC	1 3 1 1 1 1 1 1 1	150 1400 2800					CONNECT CGEC TO MEN
	70	P444	-	-	-	-	P15.5/12	P15.5/12		EX	EX	PO1	EX		SOHSL	SOHSL	CGEC	1						CONNECT CGEC TO MEN
	72	P2226541	-	-	-	-	P15.5/12-22			EX	EX	PO1	EX	EX	11SC2/S LVT LVTMO LVABC/S SOHSL225BW MEN	SOHSL225BW		1 1 2 1 1 1	1 2000					

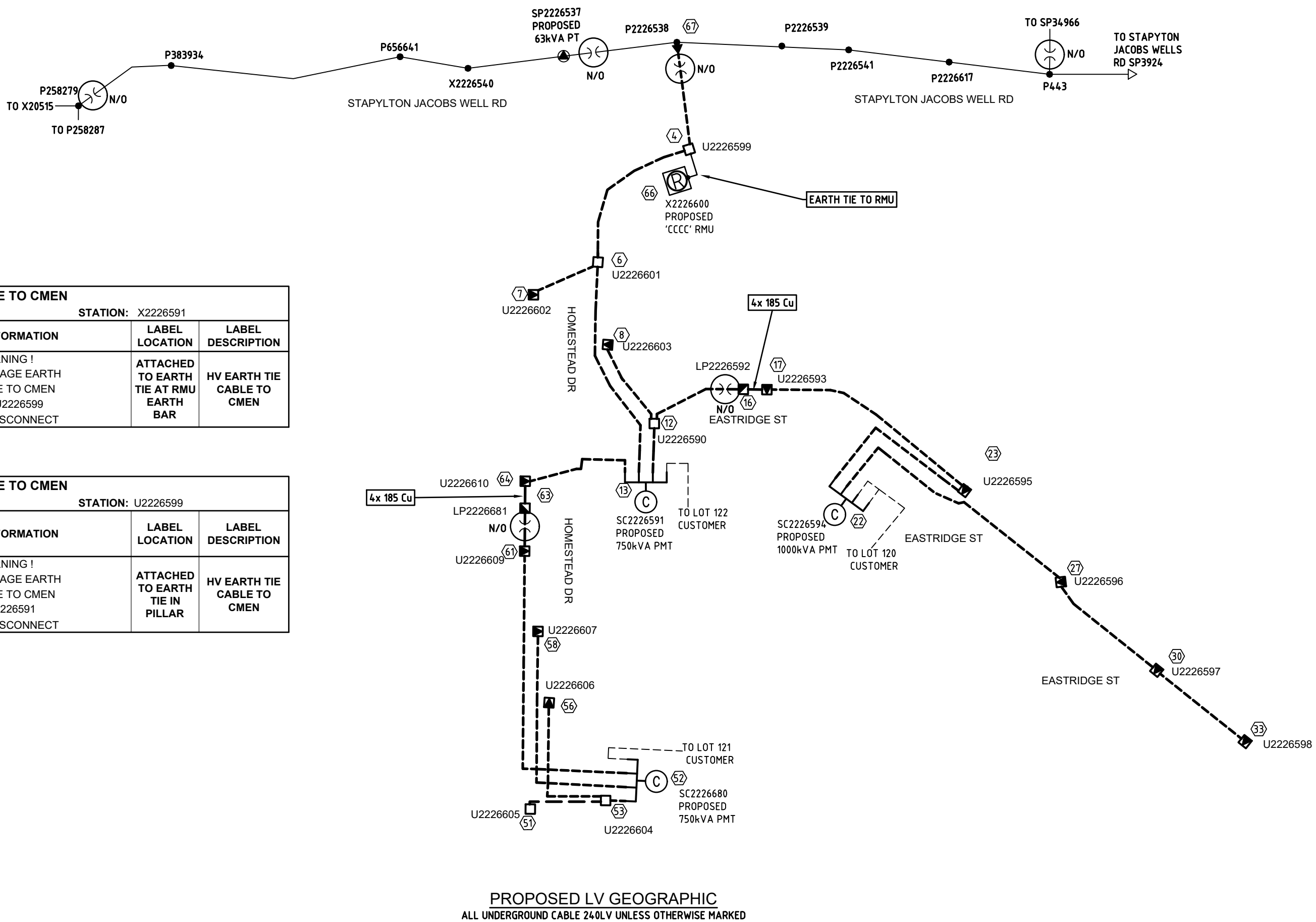
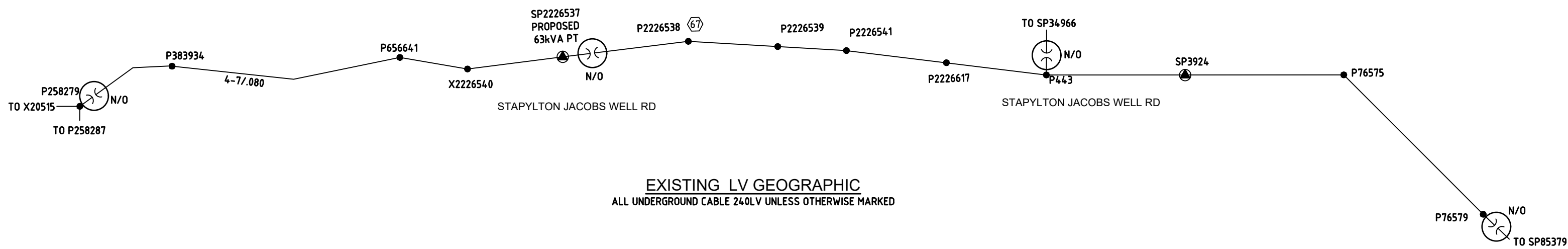
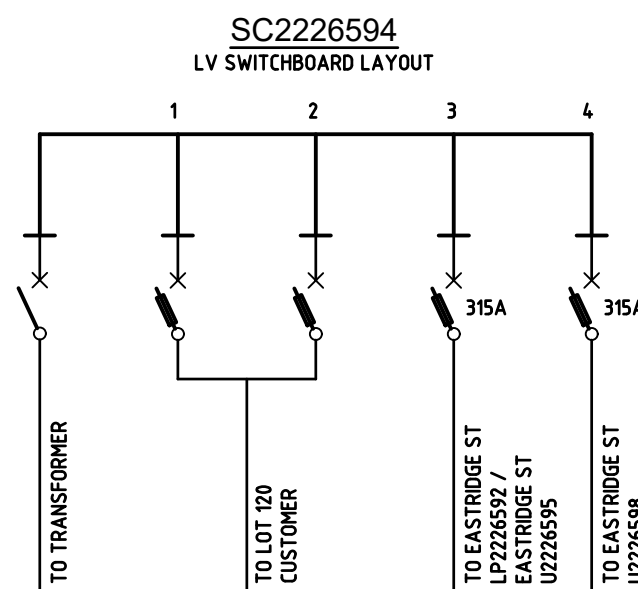
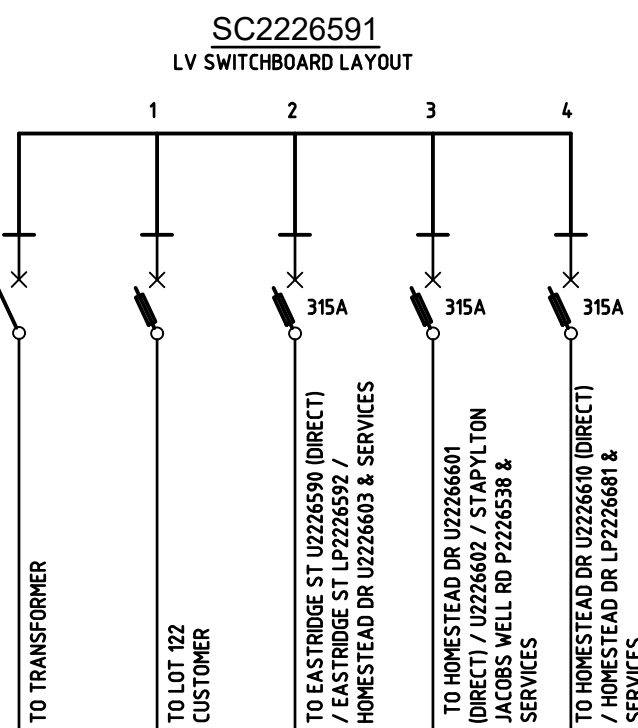
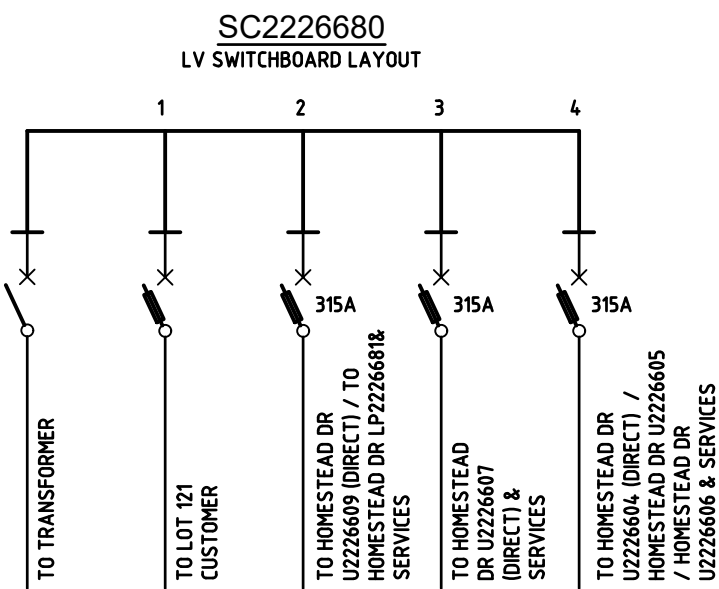
PMT LV SWBD - SWITCH FUSE CIRCUITS				
LOCATION: HOMESTEAD DR		STATION: SC2226680		
CIRCUIT No.	LABEL SIZE	LABEL COLOUR	LETTER SIZE	LABEL INFORMATION
TFMR ISOLATOR	80 x 35	WB	6	TO TRANSFORMER
1	80 x 35	WB	5	TO LOT 121 CUSTOMER
2	80 x 35	WB	5	TO HOMESTEAD DR U2226609 (DIRECT) / TO HOMESTEAD DR LP2226681 & SERVICES
3	80 x 35	WB	5	TO HOMESTEAD DR U2226607 (DIRECT) & SERVICES
4	80 x 35	WB	5	TO HOMESTEAD DR U2226604 (DIRECT) / HOMESTEAD DR U2226605 / HOMESTEAD DR U2226606 & SERVICES

MATERIAL: GRAVOPLY II (1.5mm) or similar

NEW STYLE LINK PILLAR				
LOCATION: HOMESTEAD DR			STATION: LP2226681	
CIRCUIT No.	LABEL SIZE	LABEL COLOUR	LETTER SIZE	LABEL INFORMATION
1 (LHS)	150x50	WB	5	TO EASTRIDGE ST SC2226680 & SERVICES
2 (RHS)	150x50	WB	5	TO EASTRIDGE ST SC2226591 & SERVICES

MATERIAL: GRAVOPLY II (1.5mm) or similar

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	
STAPYLTON JACOBS WELL ROAD	70-72	SL	1-2B25		1-2B25		1	13	70-72			13	REC	EX	EX		SOHL225BW	



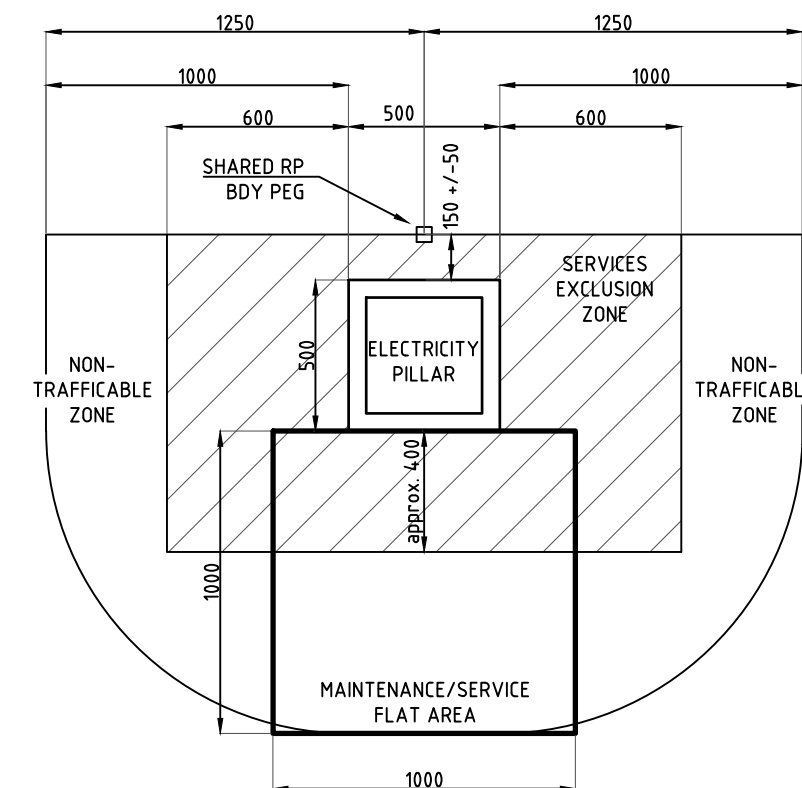
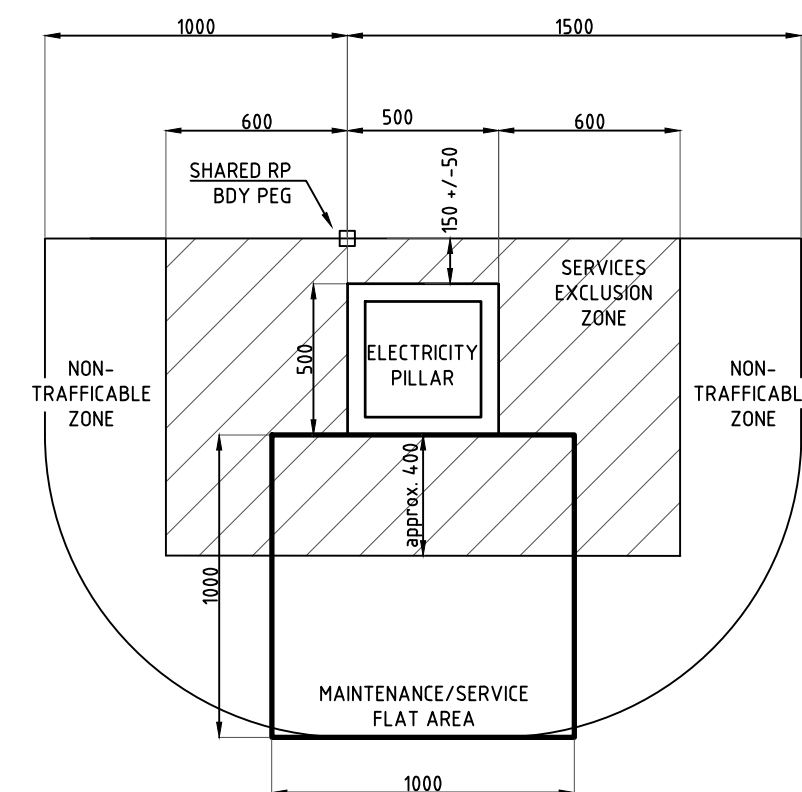
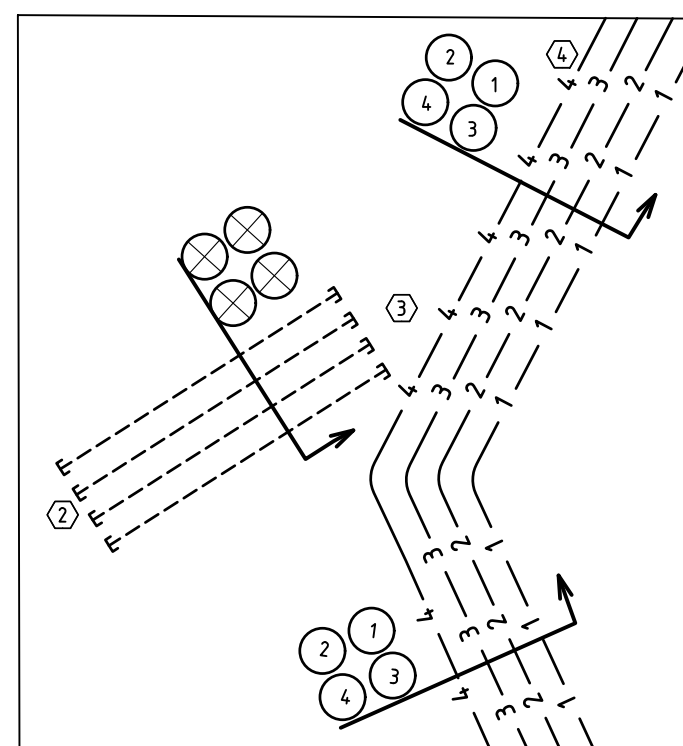
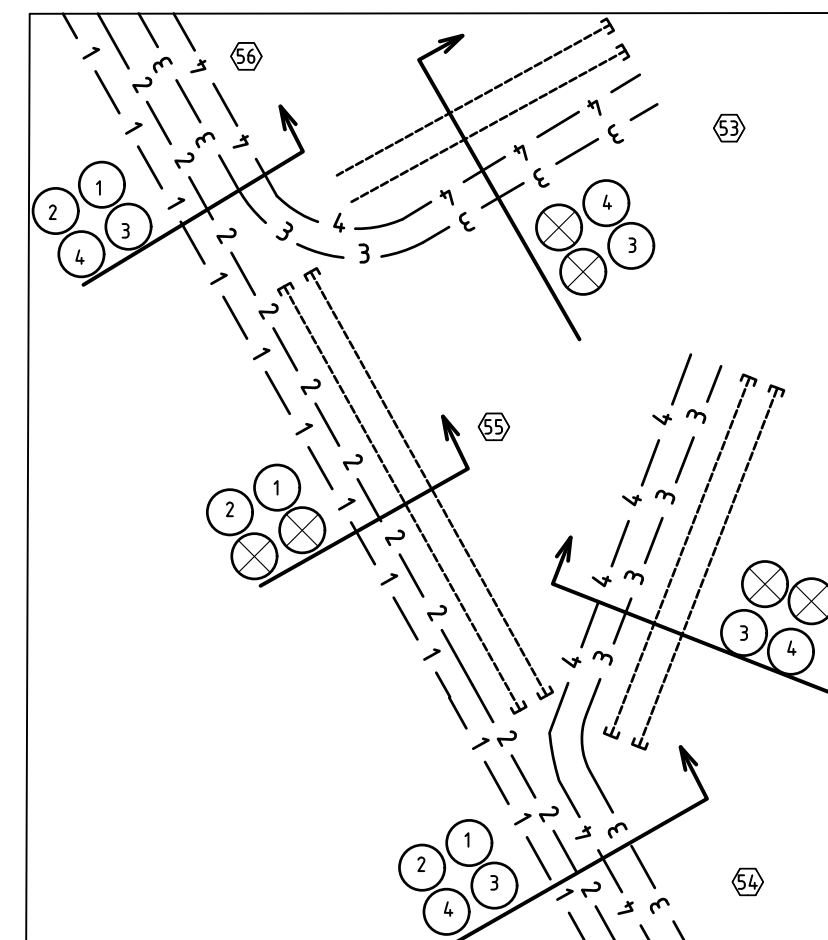
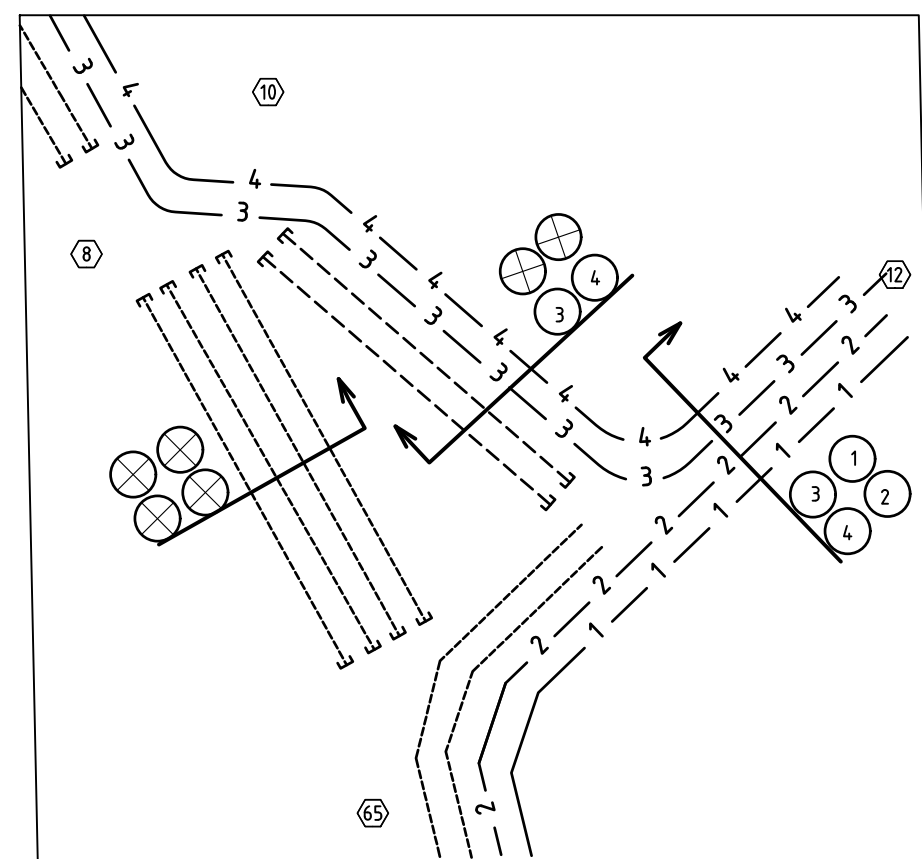
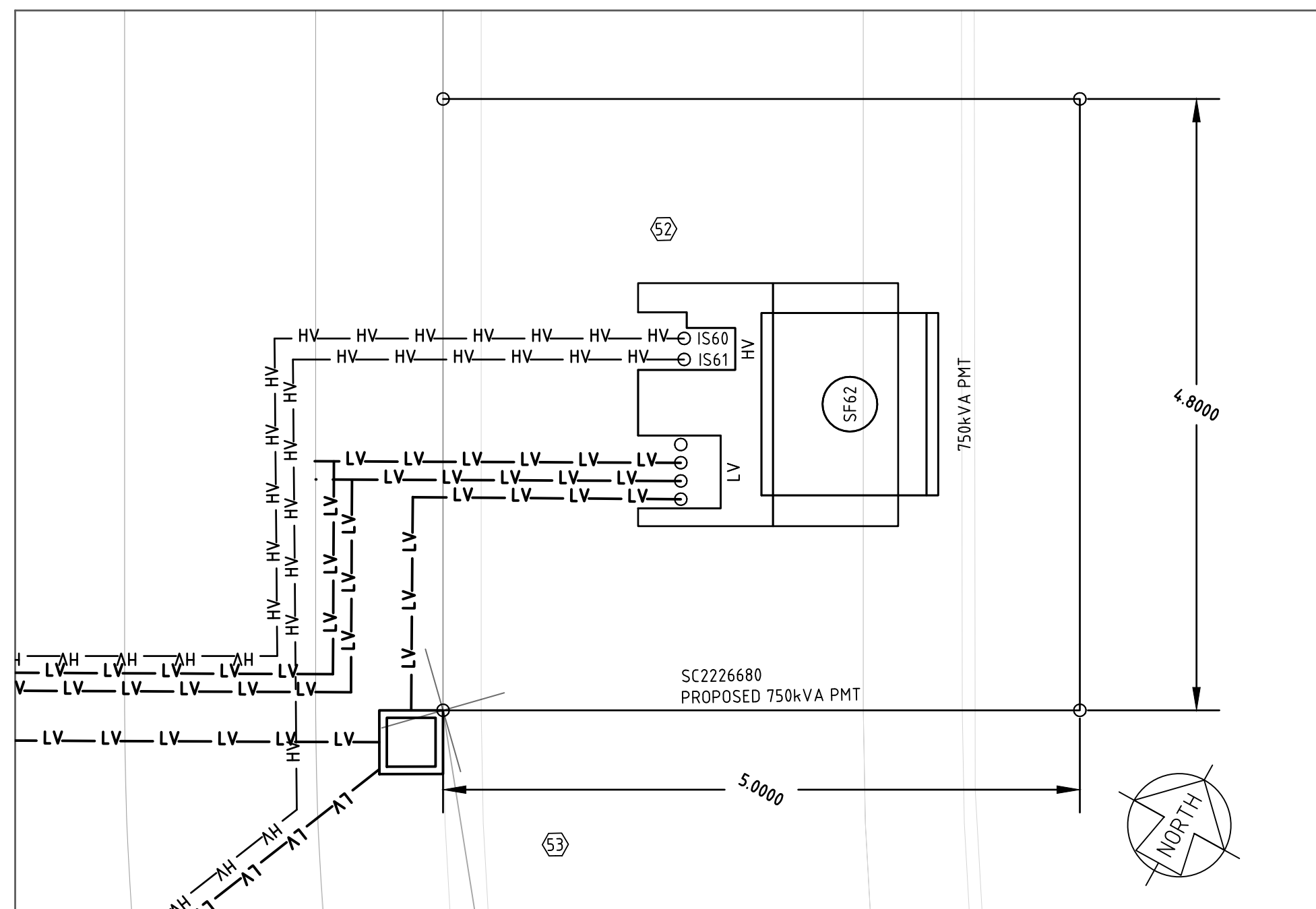
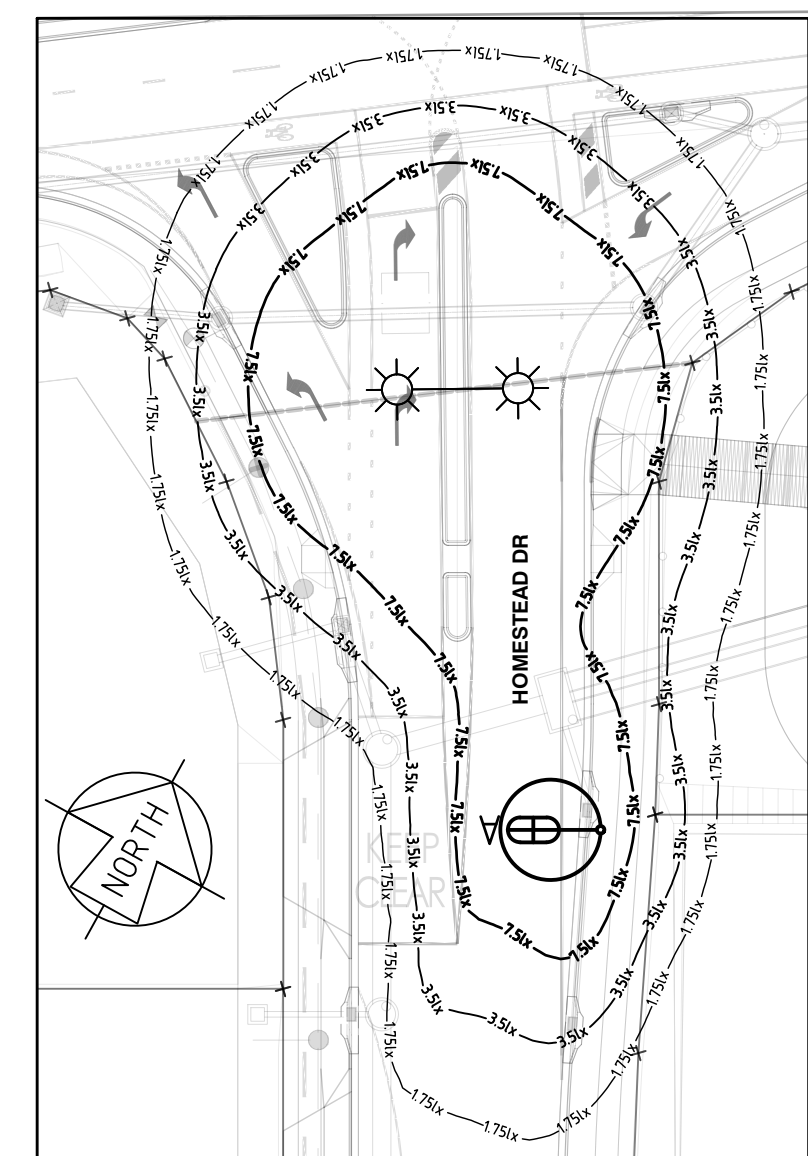
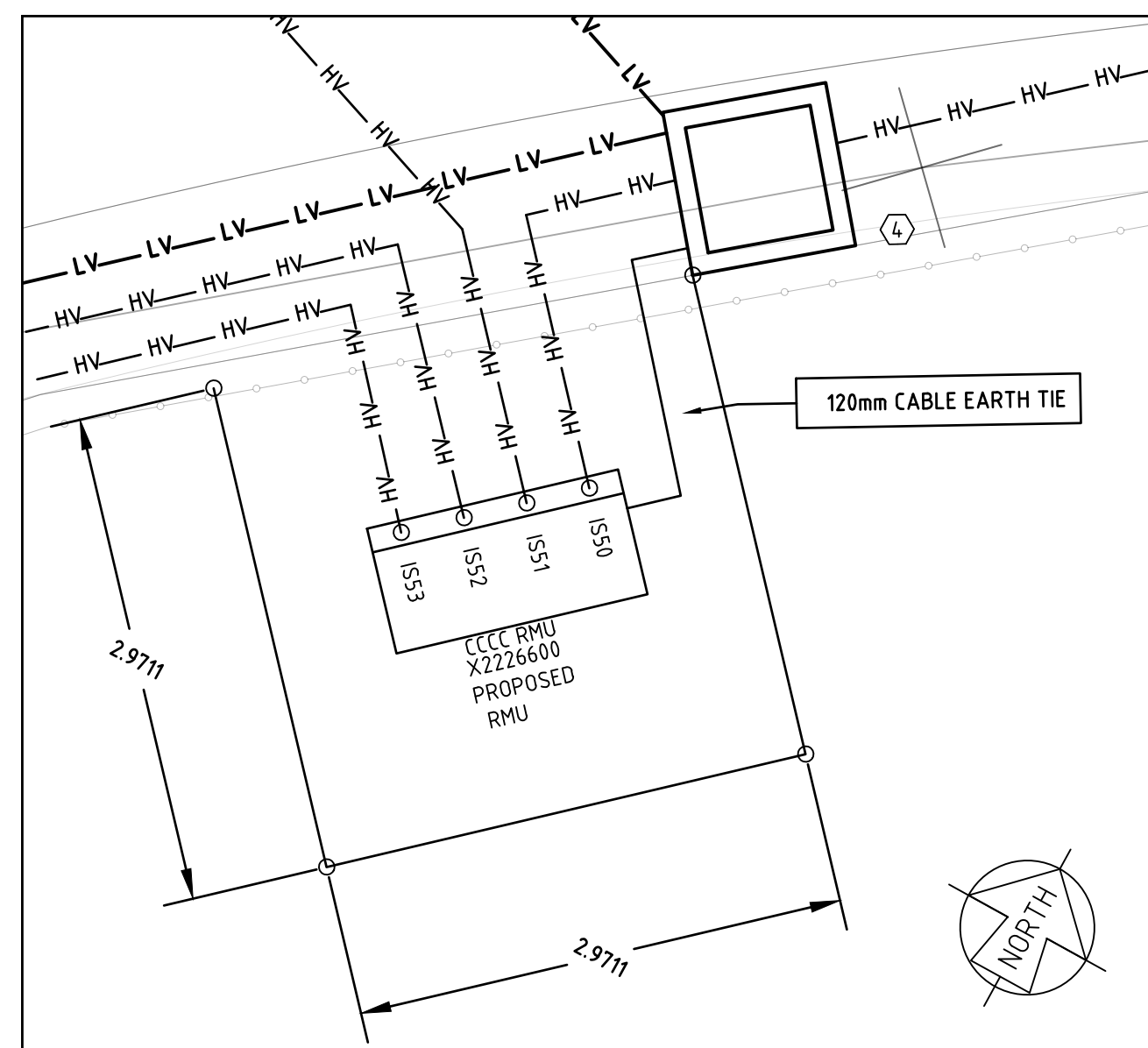
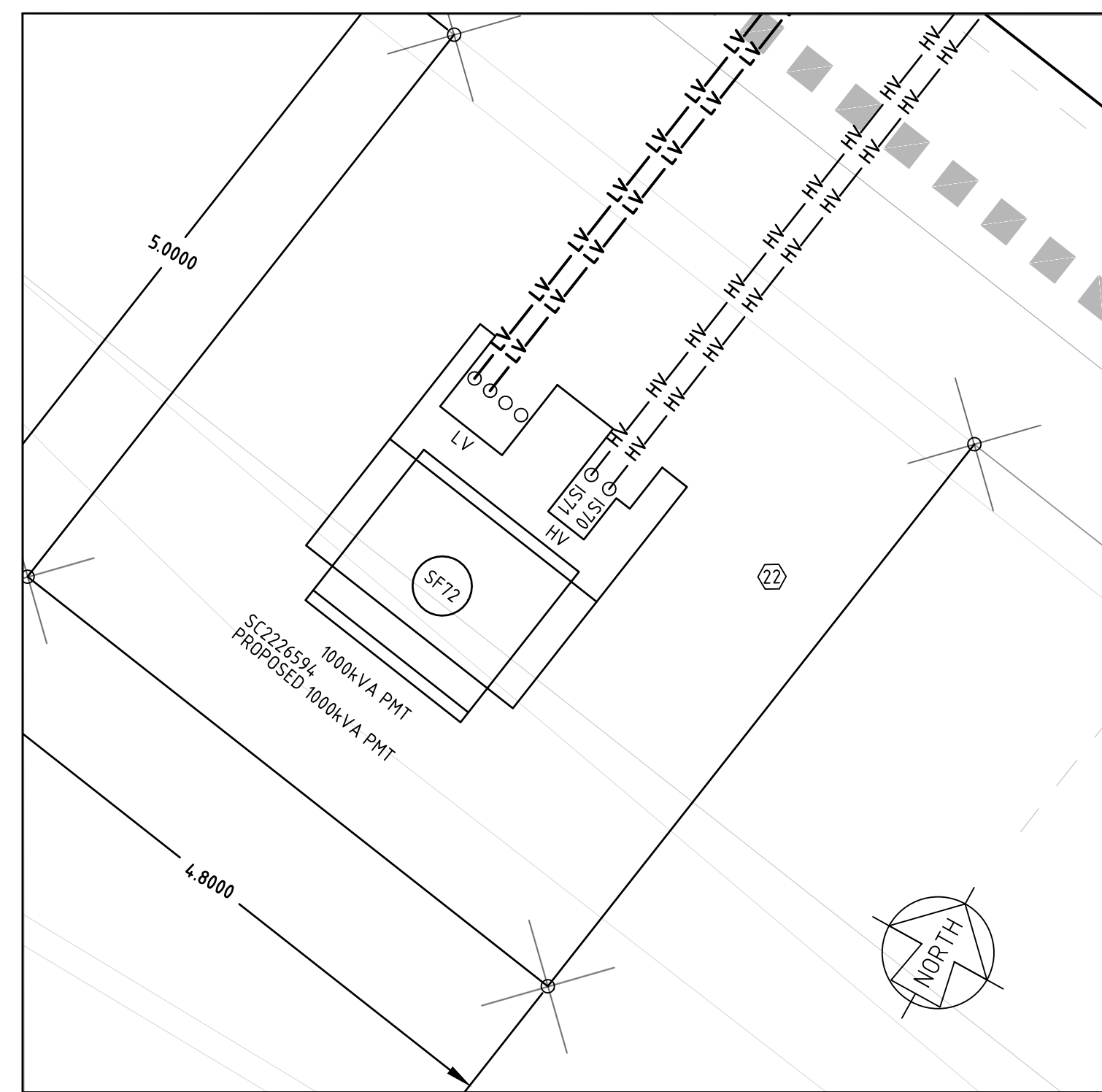
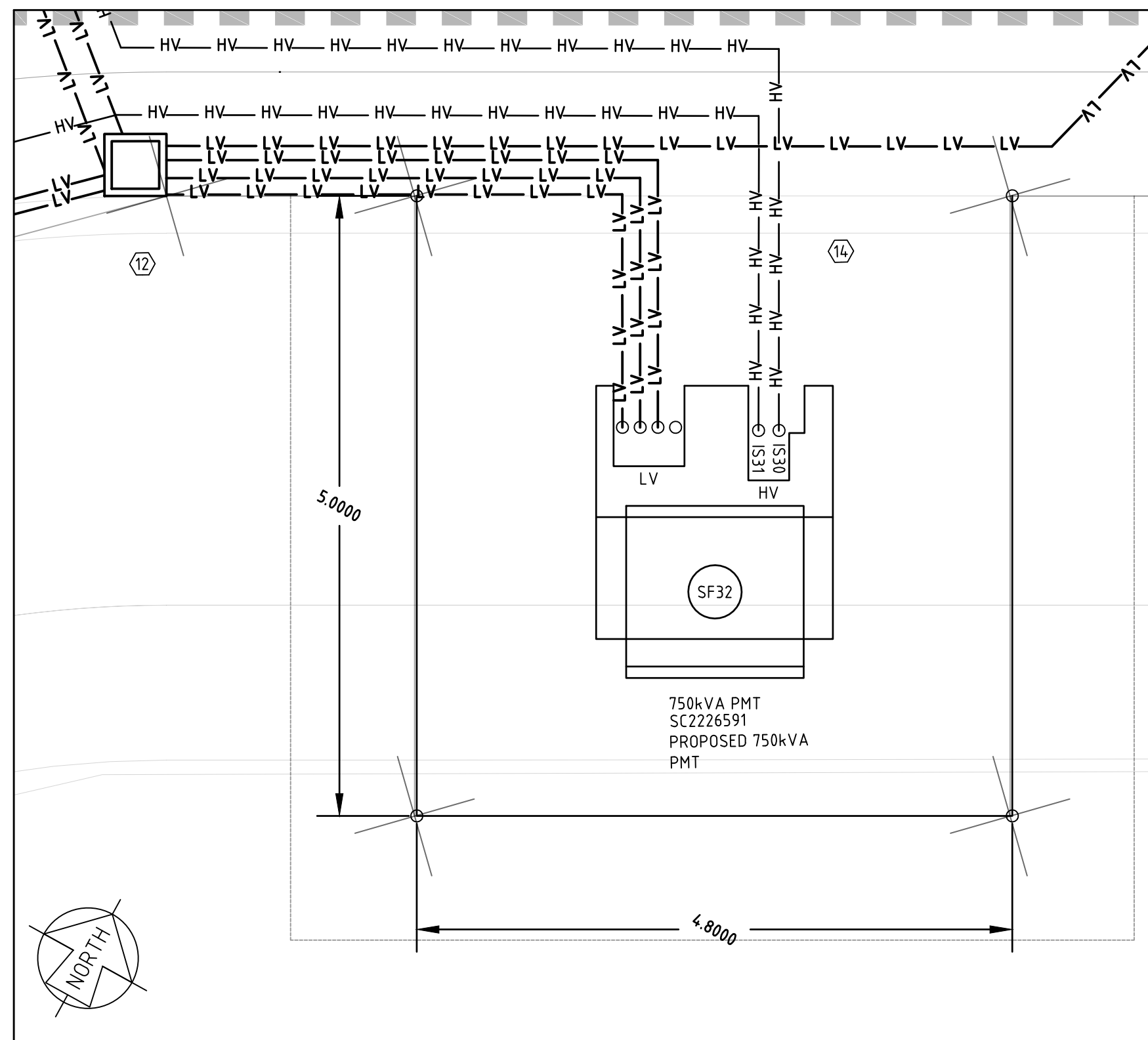
SYMBOL LEGEND	
	PROPOSED 4.0mm S/L
	PROPOSED ENERXEG 100mm COMMS
	PROPOSED 100mm
	PROPOSED 125mm
	EXISTING 4.0mm S/L
	EXISTING ENERXEG 100mm COMMS
	EXISTING 100mm
	EXISTING 125mm
	PROPOSED CABLE (AS MARKED)
	EXISTING CABLE (AS MARKED)
	PROPOSED UNDERGROUND HV/LV ROUTE
	EXISTING UNDERGROUND HV/LV ROUTE
	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	
	RATE 2 L50A
	EXISTING RATE 2 L50A
	RECOVER S150 (RATE 2)
	RECOVER M125 (RATE 1/3)
	105W VLED THR (RATE 3)

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INFORMATION.

[illegible]



- | SYMBOL LEGEND | |
|---------------|----------------------------------|
| | PROPOSED 40mm S/L |
| | PROPOSED ENERXEX 100mm COMMS |
| | PROPOSED 100mm |
| | PROPOSED 125mm |
| | EXISTING 40mm S/L |
| | EXISTING ENERXEX 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 |
| | 1kV 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 L50A |
|  | EXISTING RATE 2 L50A |
|  | RECOVER S150 (RATE 2) |
|  | RECOVER M125 (RATE 3) |
|  | 105W VLED TMR (RATE 3) |

NOTES

1. PILLARS MAY BE SET CENTRED ON BOD PEG OR OFFSET TO ONE SIDE AS SHOWN.
2. PILLARS TO BE OFFSET 150 (1/1-50) FROM RP BOD.
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.

[illegible]