



**NOTE:**  
This plan is a combination of the formal as constructed plans prepared and issued by Norris Clarke & O'Brien as part of the submission to the relevant authorities.  
At all times the formal survey plan and formal as constructed plans should be used for the detail information required for any development on the lots.  
This note is an integral part of this plan.

**MINNIPPI PARKLANDS**

Description

**STAGE 2 LOTS**

SEE SP282793 for lot dimensions and areas

Scale in Metres

1:500 at A1

Norris Clarke & O'Brien Pty Ltd

Licensed Surveyors  
Town Planners  
Development Consultants

Level 1 - Aldi Centre, 12 Bishop Street  
Kelvin Grove QLD 4059  
ph: 07 3012 0000 fax: 07 3012 0099  
email: info@ncob.com.au  
ACN 056 870 770 ABN 15 056 870 770

COMP FILE  
6622AC-ST2-ALL-170616.DWG

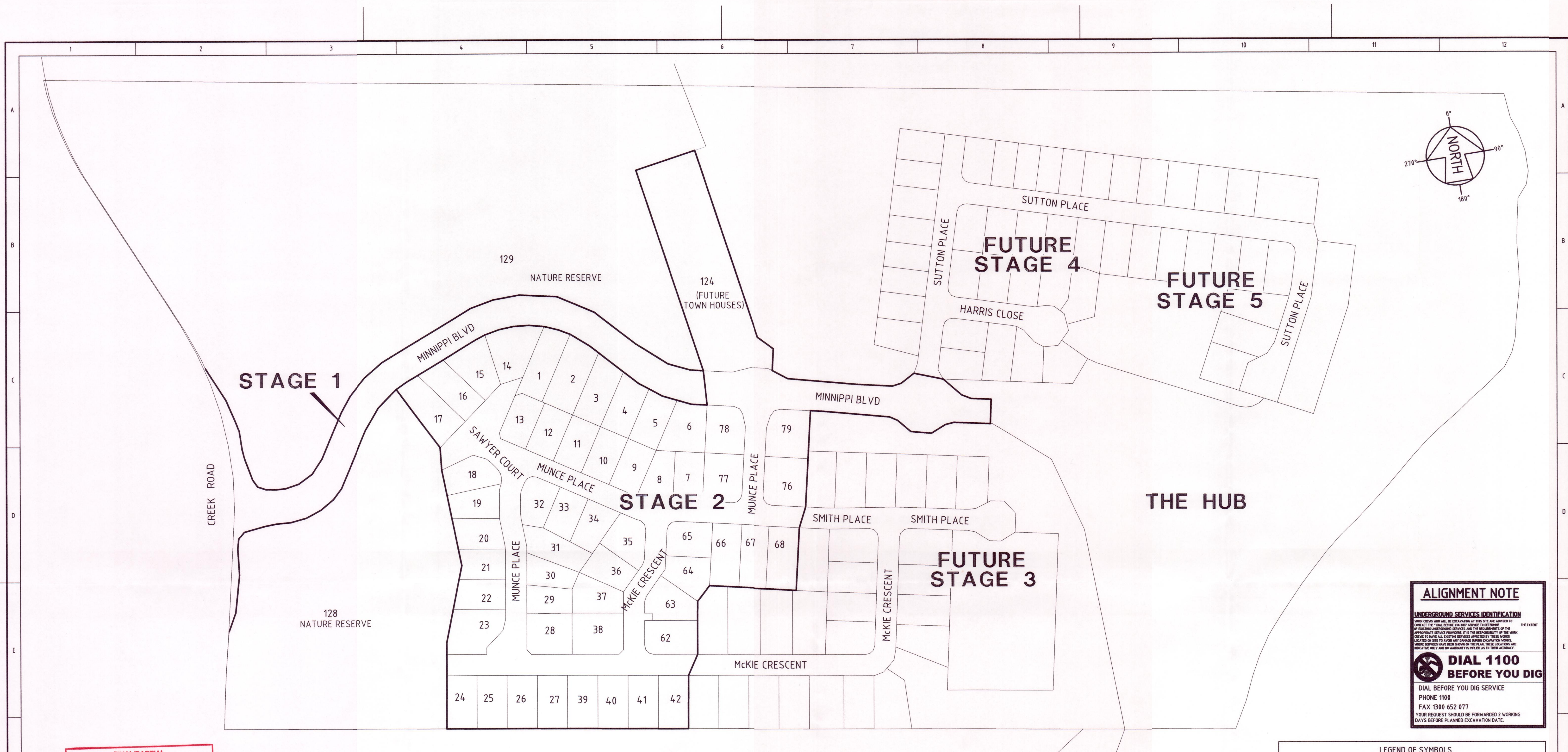
ISSUE:  
A

Date  
16/06/2017

Ref.  
6622S2

A	ORIGINAL ISSUE	16/6/17
ISSUE	DESCRIPTION	DATE





### ALIGNMENT NOTE

**UNDERGROUND SERVICES IDENTIFICATION**  
WORK CREWS WHO WILL BE EXCAVATING AT THIS SITE ARE ADVISED TO  
CONTACT THE "CALL 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 WORK 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 DIE**




































DIAL BEFORE YOU DIG SERVICE

PHONE 1100

FAX 1300 652 077

YOUR REQUEST SHOULD BE FORWARDED 2 WORKING DAYS BEFORE PLANNED EXCAVATION DATE.

### LEGEND OF SYMBOLS

- |   |                                    |   |                         |
|---|------------------------------------|---|-------------------------|
|  | PROPOSED STREETLIGHT-S100          |  | CUBICLE TRANSFORMER     |
|  | PROPOSED STREETLIGHT-S250          |  | SERVICE PILLAR-PROPOSED |
|  | PROPOSED STREETLIGHT-S70A          |  | SERVICE PILLAR-EXISTING |
|  | PROPOSED STREETLIGHT-S70           |  | LINK PILLAR             |
|  | PROPOSED STREETLIGHT-S150A         |  | POLE - HV & LV          |
|  | PROPOSED STREETLIGHT-S150A         |  | POLE - LV               |
|  | PROPOSED STREETLIGHT-S150A         |  | POLE - HV               |
|  | PROPOSED STREETLIGHT- F32A         |  | EARTH                   |
|   |                                    |  | GROUND STAY             |
|   |                                    |  | POLE STAY               |
|   |                                    |  | JOINT                   |
|  | PROPOSED STREETLIGHT- F32          |  | STATION NUMBER          |
|  | EXISTING CONDUIT                   |  | SWITCHBOARD             |
|  | PROPOSED 4.0mm CONDUIT (EMPTY)     |  | AIR BREAK SWITCH        |
|  | PROPOSED 100mm CONDUIT (EMPTY)     |  | POLE TRANSFORMER        |
|  | PROPOSED 125mm CONDUIT (EMPTY)     |  | O/H MAINS-PROPOSED      |
|  | PROPOSED CONDUIT & CABLE           |  | O/H MAINS-EXISTING      |
|  | PROPOSED CABLE IN EXISTING CONDUIT |  | UG CABLE-PROPOSED       |
|  | EXISTING CABLE & CONDUIT           |  | UG CABLE-EXISTING       |

xxxALL DIMENSIONS ARE IN METRES UNLESS NOTED OTHERWISExxx

**FINAL/PARTIAL**  
**AS CONSTRUCTED**  
**CV ENERGY SERVICES**  
**PHONE: (07) 3622 4333 FAX: (07) 3622 4334**

**NAME:** Peter Pleiße  
**SIGN:** [Signature]  
**DATE:** 7-4-17

## STREETLIGHTING CERTIFICATION

ROAD LIGHTING CERTIFIED TO COMPLY WITH  
THE NOMINATED CATEGORIES OF  
AS/NZS1158.1.1:2005 & AS/NZS1158.3.1:2005

CREEK ROAD	V3
MINNIPPI BLVD & MUNCE PLACE	P4
MUNCE PLACE, McKIE CRESCENT & SAWYER COURT	P5

CERTIFIED K.A. GOSDEN  
16/01/2017 RPEQ NO.3179

## SITE LAYOUT

NOTE:

1. REFER ENERGEY UNDERGROUND DISTRIBUTION CONSTRUCTION MANUAL FOR DETAILS OF CONDUIT CROSS-SECTIONS. TRENCH MAY BE SHARED WITH TELSTRA, ALL CONSTRUCTION TO COMPLY WITH ENERGEY MANUALS & SWP'S.
2. PROTECTIVE PVC COVER STRIPS TO BE INSTALLED ABOVE ALL CONDUITS WHERE THEY CROSS FOOTPATHS AND ON NON-STANDARD ALIGNMENTS.
3. THE CONTRACTOR SHALL MEASURE ACTUAL CABLE LENGTHS REQUIRED ON SITE AFTER INSTALLATION OF CONDUITS THEN NOTIFY ENERGEY/SUPPLIER WHEN CONFIRMING CABLE ORDER.
4. ALL CONDUIT BENDS MUST BE 1830mm RADIUS EXCEPT FOR 40mm HD STREETLIGHT CONDUITS AND THE BENDS UP INTO SERVICE PILLARS, REFER UDCM.
5. CONTRACTOR TO SUPPLY ALL LABELS AND ALL SITE ID NUMERALS TO ENERGEY SPECIFICATION.
6. NO STRUCTURES, LARGE TREES OR LANDSCAPING FEATURES SHALL BE INSTALLED OVER ELECTRICAL CABLES/CONDUITS.
7. THE CONTRACTOR INSTALLING ELECTRICAL CONDUITS SHALL TAKE CARE TO AVOID DAMAGE TO TREES OR TREE ROOTS WHEN TRENCHING.
8. CABLE/CONDUITS ARE NOT ALLOWED TO BE INSTALLED UNDER THE BIO PODS.
9. ONLY ENERGEY APPROVED MATERIALS ARE TO BE USED FOR CONSTRUCTION.
10. CONDUITS TO BE INSTALLED ONLY AFTER FINAL LEVELS ARE ESTABLISHED.
11. SURVEY PEGS TO BE INSTALLED PRIOR TO TRENCHING AND PILLAR INSTALLATION.
12. ENSURE WATER METERS ARE AT LEAST 2.0m CLEAR OF ELECTRICITY PILLARS.
13. PMT SITE TO BE LEVEL IF MORE THAN 300mm FALL/RISE WITHIN 2.0m OF SITE, THEN CONSTRUCTION OF RETAINING WALL & HANDRAIL IS REQUIRED BY ENERGEY. SITE TO BE ABOVE Q100 FLOOD LEVEL & CLEAR OF OTHER SERVICES. (SURVEY & EXCISE SITE AS ROAD RESERVE)
14. DEVELOPER TO ARRANGE TREES TO BE TRIMMED IN VICINITY OF STREET LIGHTS AND TO ENSURE ALL CABLE ROUTES ON FOOTPATH ARE CLEAR OF VEGETATION.
15. NO STREET TREES SHOULD BE PLANTED WITHIN 7m OF STREET LIGHTS.
16. STREETLIGHTS TO BE INSTALLED ONLY AFTER FINAL LEVELS ARE ESTABLISHED.
17. ALL NEW LIGHTING SHOWN IS ON RATE 2 AND MAINTAINED BY ENERGEY.
18. IT IS THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR TO FORMALLY NOTIFY ENERGEY NETWORK ON THE COMPLETION OF THIS WORK OF DATES OF RENOVATION/DE-ENERGISATION IN ORDER TO INITIALISE THE WORK AND PREVENT COSTS TO THE OWNER AND OPERATOR.
19. STREET LIGHTS TO BE LOCATED NO FURTHER THAN 3.0m FROM AND NO CLOSER THAN 0.5m TO ROAD LIGHTING POLES.
20. INSTALL PVC COVER BOARDS OVER ALL CABLE/CONDUITS CROSSING FOOTPATHS OR NON-STANDARD ALIGNMENTS OR WHERE THE CABLES ARE DIRECT -LAID.
21. JOINT-USE POLE (TWO SOURCES OF SUPPLY= STICKER REQUIRED).

[illegible]

**CV**  
Services Group  
delivering the edge

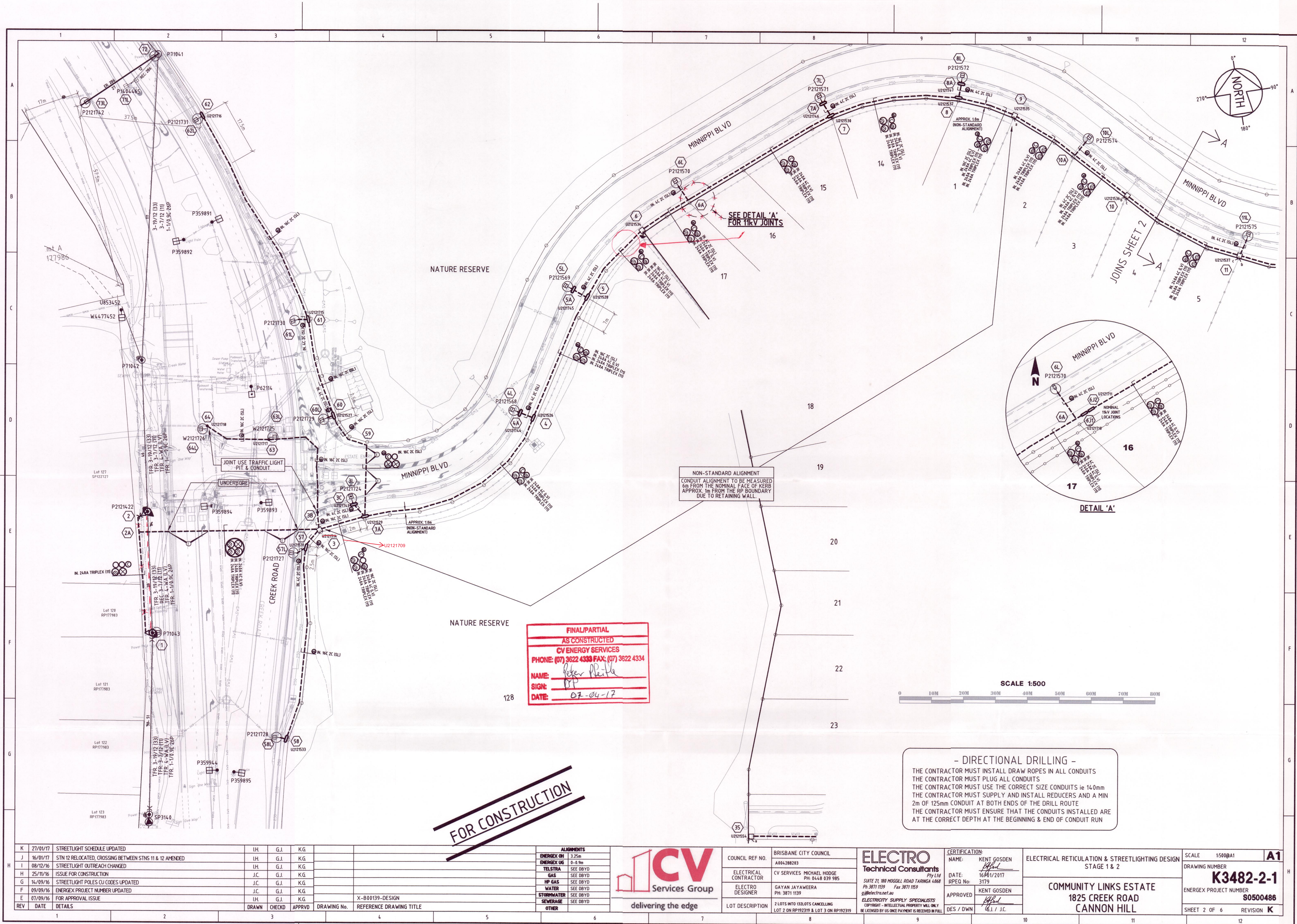
COUNCIL REF NO.	BRISBANE CITY COUNCIL
	A00428023
ELECTRICAL CONTRACTOR	CV SERVICES MICHAEL HODGE PH: 0448 039 985
ELECTRO DESIGNER	GAYAN JAYWEERA PH: 3871 1139
LOT DESCRIPTION	2 LOTS INTO 132LOTS CANCELLING LOT 2 ON RP192319 & LOT 3 ON RP19231

**ELECTRO**  
Technical Consultants  
Pty Ltd  
SUITE 21, 180 MOGGILL ROAD TARINGA 4068  
Ph 3871 1139 Fax 3871 1159  
gje@electro.net.au  
**ELECTRICITY SUPPLY SPECIALISTS**  
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BE LICENSED BY US ONCE PAYMENT IS RECEIVED IN FULL

CERTIFICATION:	
NAME:	KENT GOSDEN <i>[Signature]</i>
DATE:	16/01/2017
RPEQ No:	3179
APPROVED	KENT GOSDEN <i>[Signature]</i>
DES / DWN	G.J. / J.C.

	ELECTRICAL RETICULATION & STREETLIGHTING DESIGN STAGE 1 & 2
	COMMUNITY LINKS ESTATE 1825 CREEK ROAD CANNON HILL





REV	DATE	DETAILS	DRAWN	CHECKD	APPROVD	DRAWING No.	REFERENCE DRAWING TITLE
K	27/01/17	STREETLIGHT SCHEDULE UPDATED	I.H.	G.J.	K.G.		
J	16/01/17	STN 12 RELOCATED, CROSSING BETWEEN STNS 11 & 12 AMENDED	I.H.	G.J.	K.G.		
I	08/12/16	STREETLIGHT OUTREACH CHANGED	I.H.	G.J.	K.G.		
H	25/11/16	ISSUE FOR CONSTRUCTION	J.C.	G.J.	K.G.		
G	14/09/16	STREETLIGHT POLES CU CODES UPDATED	J.C.	G.J.	K.G.		
F	09/09/16	ENERGEX PROJECT NUMBER UPDATED	J.C.	G.J.	K.G.		X-B00139-DESIGN
E	07/09/16	FOR APPROVAL ISSUE	I.H.	G.J.	K.G.		
D							
C							
B							
A							

**CV**  
Services Group  
delivering the edge

COUNCIL REF NO.	BRISBANE CITY COUNCIL A004288203
ELECTRICAL CONTRACTOR	CV SERVICES MICHAEL HODGE PH: 3871 1139 Fax 3871 1159
ELECTRO DESIGNER	GAYAN JAYAWERA PH: 3871 1139
LOT DESCRIPTION	2 LOTS INTO 132 LOTS CANCELLING LOT 2 ON RP192319 & LOT 3 ON RP192319

**ELECTRO**  
Technical Consultants  
Pty Ltd  
SUITE 21, 180 MOGILL ROAD TARINGA QLD 4068  
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g@electro.net.au  
ELECTRICITY SUPPLY SPECIALISTS  
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BE LICENSED BY US ONCE PAYMENT IS RECEIVED IN FULL

CERTIFICATION	NAME: KENT GOSDEN DATE: 16/01/2017 RPEQ No: 3179
APPROVED	KENT GOSDEN
DES / DWN	G.J. / J.C.

ELECTRICAL RETICULATION & STREETLIGHTING DESIGN  
STAGE 1 & 2  
**COMMUNITY LINKS ESTATE**  
1825 CREEK ROAD  
CANNON HILL

SCALE	1:500@A1
DRAWING NUMBER	<b>K3482-2-1</b>
ENERGEX PROJECT NUMBER	S0500486
SHEET 2 OF 6	REVISION <b>K</b>







UNDERGROUND CABLE SCHEDULE											
LOCATION	STATIONS FROM-TO	VOLTS	EXIST	TRF	REC	INSTALL	CABLE SIZE/TYPE	MODEL ID	ROUTE LENGTH (m)	CABLE LENGTH (m)	REMARKS
CREEK ROAD	1-6/1	11kV			X	240mm <sup>2</sup> AL TRIPLEX	11A24XSH	360	235	263	
	2-6/2	11kV			X	240mm <sup>2</sup> AL TRIPLEX	11A24XSH	229	201	207	
MINNIPPI BOULEVARD	6/1-14/1	11kV			X	240mm <sup>2</sup> AL TRIPLEX	11A24XSH	360	223	229	
	6/2-14/2	11kV			X	240mm <sup>2</sup> AL TRIPLEX	11A24XSH	360	223	229	
MUNCE PLACE	14/1-27	11kV			X	240mm <sup>2</sup> AL TRIPLEX	11A24XSH	360	223	229	
	14/2-27	11kV			X	240mm <sup>2</sup> AL TRIPLEX	11A24XSH	360	223	229	
MINNIPPI BOULEVARD	2-3	LV			X	16mm <sup>2</sup> 2C PVC/PVC	LV24PVPV	6	9	9	
	3-3A	SL			X	16mm <sup>2</sup> 2C PVC/PVC	LV24PVPV	11	14	14	
	3-3/1	SL			X	16mm <sup>2</sup> 2C PVC/PVC	LV24PVPV	42	45	45	
	3-3/2	SL			X	16mm <sup>2</sup> 2C PVC/PVC	LV24PVPV	145	151	151	
	3-4	SL			X	16mm <sup>2</sup> 2C PVC/PVC	LV24PVPV	5	11	11	
	3A-3L	SL			X	16mm <sup>2</sup> 2C PVC/PVC	LV24PVPV	33	36	36	
	3A-6/1	SL			X	16mm <sup>2</sup> 2C PVC/PVC	LV24PVPV	5	11	11	
	4-4/1	SL			X	16mm <sup>2</sup> 2C PVC/PVC	LV24PVPV	68	71	71	
	4-4/2	SL			X	16mm <sup>2</sup> 2C PVC/PVC	LV24PVPV	5	11	11	
	5-5/1	SL			X	16mm <sup>2</sup> 2C PVC/PVC	LV24PVPV	5	11	11	
	6-6/1	SL			X	16mm <sup>2</sup> 2C PVC/PVC	LV24PVPV	23	29	29	
	6-6/2	SL			X	16mm <sup>2</sup> 2C PVC/PVC	LV24PVPV	108	134	134	
	7-7/1	SL			X	16mm <sup>2</sup> 2C PVC/PVC	LV24PVPV	59	62	62	
	7-7/2	SL			X	16mm <sup>2</sup> 2C PVC/PVC	LV24PVPV	5	11	11	
	8-8/1	SL			X	16mm <sup>2</sup> 2C PVC/PVC	LV24PVPV	5	11	11	
	9-9/1	SL			X	16mm <sup>2</sup> 2C PVC/PVC	LV24PVPV	43	46	46	
	10-10/1	SL			X	16mm <sup>2</sup> 2C PVC/PVC	LV24PVPV	24	32	32	
	10-11	LV			X	240mm <sup>2</sup> 4C AL XLPE	LV24XHPV	48	43	43	
	11-11/1	SL			X	16mm <sup>2</sup> 2C PVC/PVC	LV24PVPV	5	11	11	
	11-11/2	SL			X	16mm <sup>2</sup> 2C PVC/PVC	LV24PVPV	14	20	20	
	12-12/1	SL			X	16mm <sup>2</sup> 2C PVC/PVC	LV24PVPV	30	32	32	
	12-12/2	SL			X	16mm <sup>2</sup> 2C PVC/PVC	LV24PVPV	26	32	32	
	13-13/1	SL			X	16mm <sup>2</sup> 2C PVC/PVC	LV24PVPV	14	20	20	
	13-13/2	SL			X	16mm <sup>2</sup> 2C PVC/PVC	LV24PVPV	30	32	32	
	13-16	LV			X	240mm <sup>2</sup> 4C AL XLPE	LV24XHPV	93	96	96	
	15-15/1	SL			X	16mm <sup>2</sup> 2C PVC/PVC	LV24PVPV	6	12	12	
	15-15/2	SL			X	16mm <sup>2</sup> 2C PVC/PVC	LV24PVPV	43	46	46	
	15-5/3	LV			X	240mm <sup>2</sup> 4C AL XLPE	LV24XHPV	72	75	75	
	16-16/1	SL			X	16mm <sup>2</sup> 2C PVC/PVC	LV24PVPV	2	8	8	
	16-17	LV			X	240mm <sup>2</sup> 4C AL XLPE	LV24XHPV	90	93	93	
	18-18/1	SL			X	16mm <sup>2</sup> 2C PVC/PVC	LV24PVPV	20	26	26	
	18-19	LV			X	240mm <sup>2</sup> 4C AL XLPE	LV24XHPV	52	54	54	
	19-20	LV			X	240mm <sup>2</sup> 4C AL XLPE	LV24XHPV	42	44	44	
	19-20/1	SL			X	16mm <sup>2</sup> 2C PVC/PVC	LV24PVPV	38	48	48	
	20-21	LV			X	240mm <sup>2</sup> 4C AL XLPE	LV24XHPV	39	42	42	
	21-23	LV			X	16mm <sup>2</sup> 2C PVC/PVC	LV24PVPV	12	18	18	
	23-23/1	SL			X	16mm <sup>2</sup> 2C PVC/PVC	LV24PVPV	3	9	9	
	23-23/2	SL			X	16mm <sup>2</sup> 2C PVC/PVC	LV24PVPV	20	26	26	
	25-25/1	SL			X	16mm <sup>2</sup> 2C PVC/PVC	LV24PVPV	41	44	44	
	27-27/1	SL			X	16mm <sup>2</sup> 2C PVC/PVC	LV24PVPV	80	83	83	
	28-28/1	SL			X	16mm <sup>2</sup> 2C PVC/PVC	LV24PVPV	10	18	18	
	29-29/1	SL			X	16mm <sup>2</sup> 2C PVC/PVC	LV24PVPV	39	42	42	
	30-30/1	SL			X	16mm <sup>2</sup> 2C PVC/PVC	LV24PVPV	2	8	8	
	32-32/1	SL			X	16mm <sup>2</sup> 2C PVC/PVC	LV24PVPV	12	15	15	
	32-33/1	SL			X	16mm <sup>2</sup> 2C PVC/PVC	LV24PVPV	10	15	15	
	32-33/2	SL			X	16mm <sup>2</sup> 2C PVC/PVC	LV24PVPV	2	8	8	
	32-34	LV			X	240mm <sup>2</sup> 4C AL XLPE	LV24XHPV	39	42	42	
	34-34/1	SL			X	16mm <sup>2</sup> 2C PVC/PVC	LV24PVPV	3	9	9	
	34-35	LV			X	16mm <sup>2</sup> 2C PVC/PVC	LV24PVPV	39	42	42	
	34-37	LV			X	240mm <sup>2</sup> 4C AL XLPE	LV24XHPV	42	45	45	
	35-35/1	SL			X	16mm <sup>2</sup> 2C PVC/PVC	LV24PVPV	13	19	19	
	37-37/1	SL			X	16mm <sup>2</sup> 2C PVC/PVC	LV24PVPV	2	8	8	
	37-38	LV			X	240mm <sup>2</sup> 4C AL XLPE	LV24XHPV	19	22	22	
	37-40	LV			X	240mm <sup>2</sup> 4C AL XLPE	LV24XHPV	39	42	42	
	38-39	LV			X	16mm <sup>2</sup> 2C PVC/PVC	LV24PVPV	21	24	24	
	40-40/1	SL			X	16mm <sup>2</sup> 2C PVC/PVC	LV24PVPV	2	8	8	
	40-41	LV			X	240mm <sup>2</sup> 4C AL XLPE	LV24XHPV	42	45	45	
	41-41/1	SL			X	16mm <sup>2</sup> 2C PVC/PVC	LV24PVPV	8	16	16	
	41-42	LV			X	240mm <sup>2</sup> 4C AL XLPE	LV24XHPV	26	28	28	
	41-47	LV			X	240mm <sup>2</sup> 4C AL XLPE	LV24XHPV	39	42	42	
	42-43	SL			X	16mm <sup>2</sup> 2C PVC/PVC	LV24PVPV	44	47	47	
	43-43/1	SL			X	16mm <sup>2</sup> 2C PVC/PVC	LV24PVPV	21	27	27	
	43-44	LV			X	16mm <sup>2</sup> 2C PVC/PVC	LV24PVPV	41	44	44	
	43-45	LV			X	16mm <sup>2</sup> 2C PVC/PVC	LV24PVPV	27	30	30	
	47-47/1	SL			X	16mm <sup>2</sup> 2C PVC/PVC	LV24PVPV	2	8	8	
	47-48	LV			X	16mm <sup>2</sup> 2C PVC/PVC	LV24PVPV	16	20	20	
	47-49	LV			X	240mm <sup>2</sup> 4C AL XLPE	LV24XHPV	43	46	46	
	49-49/1	SL			X	16mm <sup>2</sup> 2C PVC/PVC	LV24PVPV	3	9	9	
	49-51	LV			X	16mm <sup>2</sup> 2C PVC/PVC	LV24PVPV	17	23	23	
	52-52/1	SL			X	16mm <sup>2</sup> 2C PVC/PVC	LV24PVPV	5	11	11	
	53-54/1	SL			X	16mm <sup>2</sup> 2C PVC/PVC	LV24PVPV	47	53	53	
	53-56/1	SL			X	16mm <sup>2</sup> 2C PVC/PVC	LV24PVPV	48	54	54	
	54-55/1	SL			X	16mm <sup>2</sup> 2C PVC/PVC	LV24PVPV	3	9	9	
	56-56/1	SL			X	16mm <sup>2</sup> 2C PVC/PVC	LV24PVPV	3	9	9	
	57-57/1	SL			X	16mm <sup>2</sup> 2C PVC/PVC	LV24PVPV	3	9	9	
	57-58	SL			X	16mm <sup>2</sup> 2C PVC/PVC	LV24PVPV	60	63	63	
	58-58/1	SL			X	16mm <sup>2</sup> 2C PVC/PVC	LV24PVPV	2	8	8	
	60-60/1	SL			X	16mm <sup>2</sup> 2C PVC/PVC	LV24PVPV	2	8	8	
	60-61	SL			X	16mm <sup>2</sup> 2C PVC/PVC	LV24PVPV	30	32	32	
	61-61/1	SL			X	16mm <sup>2</sup> 2C PVC/PVC	LV24PVPV	3	9	9	
	61-62	SL			X	16mm <sup>2</sup> 2C PVC/PVC	LV24PVPV	70	73	73	
	62-62/1	SL			X	16mm <sup>2</sup> 2C PVC/PVC	LV24PVPV	1	7	7	
	62-64	SL			X	16mm <sup>2</sup> 2C PVC/PVC	LV24PVPV	51	60	60	
	64-64/1	SL			X	16mm <sup>2</sup> 2C PVC/PVC	LV24PVPV	1	7	7	
TOTALS		11kV			X	240mm <sup>2</sup> AL TRIPLEX	11A24XSH		1372		
		LV			X	240mm <sup>2</sup> 4C AL XLPE	LV24XHPV		1476		
		SL			X	16mm <sup>2</sup> 2C PVC/PVC	LV24PVPV		248		
		SL			X	16mm <sup>2</sup> 2C PVC/PVC	LV24PVPV		538		
		SL			X	16mm <sup>2</sup> 2C PVC/PVC	LV24PVPV		547		

URD CIVIL WORKS SCHEDULE - FOOTPATHS																		
LOCATION	STATIONS TO-FROM	CONDUIT LENGTH (m)						BENDS (x°/Ne)			PVC CABLE PROTECTION (m)		X-SECTION (m)		DRAW WELL	KERB MARK	REMARKS	
		40mm HD ORANGE	100mm HD WHITE	100mm LD ORANGE	100mm LD ORANGE	125mm LD ORANGE	150mm LD ORANGE	40mm	100mm	125mm	150	200	300	EXCAV /TAPE				TRENCH DETAIL
CREEK ROAD	1-2														36	190		
MINNIPPI BOULEVARD	2-3A	13	1	13	1	13	2								6	43		
	3-3B	5	1												13	90		
	3-3/1	5	1												5	7		
	3-3/2	5	1												5	7		
	3A-3C	5	1												5	7		
	3A-4		63	1	63	1	63	2							63	260		
	4-4A	5	1												5	7		
	4-5	41	1	41	1	41	2								5	7		
	5-5A	5	1												41	205		
	5-6	27	1	27	1	27	2								5	7		
	6-6A	17	1	17	1	17	2								27	145		
	6A-6L	5	1												17	95		
	6A-7	52	1	52	1	52	2								5	7		
	7-7A	5	1												52	216		
	7-8	41	1	41	1	41	2								5	7		
	8-8A	5	1												41	215		
	8-9	18	1	18	1	18	2								5	7		
	9-10A	23	1	23	1	23	2								18	100		
	10A-10L	5	1												23	100		
	10A-10	20	1	20	1	20	2								5	7		
11-11/1	5	1												20	119			
11-13	38	1	38	1	38	2								48	168			
12-12L	26	1												38	168			
13-14	9	1	9	1	9	2								26	28			
14-14L	5	1												5	9			
14-16			83	1	83	1	83	2						5	9			
15-15L	6	1												83	342			
15-52	38	1	38	1	38	2	38	2						6	8			
16-16L	2	1												38	242			
MUNCE PLACE	17-18			10	1	10	2	10	2					2	4			
MCKIE CRESCENT	17-20	24	1	24	1	24	2							10	68			
MUNCE PLACE	18-18L	2	1											24	104			
MCKIE CRESCENT	18-19	17	1	17	1	17	2	17	2					2	4			
MUNCE PLACE	19-24		34	1	34	2	34	2						2	4			
MCKIE CRESCENT	20-21		38	1	38	1	38	2						34	180			
121-21L	2	1												38	168			
21-22			19	1	19	1	19	2						19	84			
23-23A	18	1												18	18			
23A-23L	3	1												7	54			
24-26			7	1	7	3	7	2						3	5			
25-25L	3	1												3	5			
27-28	22	1												3	5			
28-28L	4	1												22	72			
29-30														4	6			
OFF MUNCE CRESCENT	29-32													39	41			
OFF MCKIE CRESCENT	32-34													39	41			
OFF MUNCE PLACE	33-33L	2	1											2	4			
	34-35													39	41			
	35-45	13	1											2	4			
MUNCE PLACE	34-34L	3	1											13	13			
	36-37													3	5			
	37-37L	2	1											16	16			
	37-49													2	4			
	40-40L	2	1											39	41			
	40-41													2	4			
	41-41L	8	1											42	44			
	42-43													8	10			
	43-43A	18	1											44	46			
	43-45													48	48			
	43A-43L	3	1											27	29			
	43A-44													3	5			
	46-47													23	25			
	47-47L	2	1											23	25			
	47-49													2	4			
	49-49L	3	1											3	5			
	49-50													4	45			
	52-52L	5	1											5	7			
	52-53		34	1	34	2	34	2						5	7			
	53-54	41	1	41	1	41	2	41	2					3	5			
	54-54L	6	1											41	253			
	54-55		30	1	30	2	30	2						6	8			
	56A-53L	3	1											30	50			
	56-56A	5	1	5	1	5	2	5	2					3	5			
	56A-56B		10	1	10	2	10	2						5	42			
CREEK ROAD	57-57L	3	1											10	72			
	57-58	60	1											3	5			
	58-58L	2	1											60	62			
	59-60	16	1											2	4			
	60-60L	2	1											2	16			
	60-61	30	1											2	4			
	61-61L	3	1											30	32			
	61-62	70	1											3	5			
	62-62L	1	1											70	72			
TOTALS		697	834	1600	1668					468				150	5200			







# 11kV RMU LABELS AT MCKIE CRESCENT (STN 27) SC2121593

LABEL SIZE	LABEL COLOUR	LETTER SIZE	LABEL INFORMATION	LABEL LOCATION	LABEL DESCRIPTION
150x40	WB	20	SC2121593	FRONT	RMU IDENTIFICATION
50x20	BLUE W	10		FRONT	DESIGN IDENTIFICATION
100x30	GW	8		NEAR EARTH SW	EARTH SWITCH DESCRIPTION
100x40	WB	15	IS31 IS32 SF33	NEAR ISOLATOR	ISOLATOR IDENTIFICATION
150x40	BW	20		FRONT	FEEDER IDENTIFICATION
150x50	BW	10	TO CREEK ROAD P2121422 TO CREEK ROAD P71043 TO TRANSFORMER	CABLE BOX	CABLE DESTINATION
150x50	BW	10	TO CREEK ROAD P2121422 TO CREEK ROAD P71043 TO TRANSFORMER	INSIDE SIDE WALL	CABLE DESTINATION

LABEL SIZE	SITE LOCATION FOR ATTACHING OF LABEL	LABEL INFORMATION
300X100	Pole No. P2121422 Location STN 2 CREEK ROAD	11kV CABLE TO MCKIE CRESCENT SC2121593 IS31
300X100		LV CABLE TO MCKIE CRESCENT SC2121593

**MATERIAL**  
KOLANA BRONZE 12mm THICK ANODISED ALUMINIUM PLATE.

- NOTE**
- THIS DIMENSION CAN BE INCREASED IF NECESSARY TO FIT TEXT ON LABEL (MIN LENGTH 300mm).
  - IF REQUIRED THE TEXT CAN BE ROTATED 90° IN BLOCKS OF COMMON SIZED TEXT FOR HORIZONTAL MOUNTING OF LABELS.
  - THE FEEDER NAME IS ONLY USED WHERE THE CABLE TERMINATION IS THE FIRST POLE OUTSIDE A ZONE SUBSTATION.

## HV/ LV POLE TERMINATION - COMMON LABEL

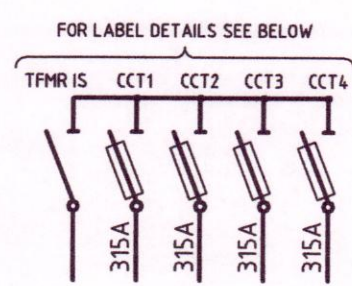
CIRCUIT No.	LABEL SIZE	LABEL COLOUR	LETTER SIZE	LABEL INFORMATION
TRN ISOLATOR	80x35	WB	6	TRANSFORMER ISOLATOR
1	80x35	WB	5	TO MUNCE PLACE U2121543 & SERVICES
2	80x35	WB	5	TO CREEK RD P2121422 & SERVICES
3	80x35	WB	5	TO MUNCE PLACE U2121566 & SERVICES
4	80x35	WB	5	TO MCKIE CRESCENT U2121550 & SERVICES

LABEL SIZE	LOCATION	LABEL INFORMATION
300X100	Pole No. P71043 Loc. STN 1 CREEK ROAD	11kV CABLE TO MCKIE CRESCENT SC2121593 IS32

**MATERIAL** - KOLANA BRONZE 12mm THICK ANODISED PLATE.

## 11kV LABEL AT P71043 CREEK ROAD

## LV LABELS AT SC2121593 (STN 27)



## LV FUSE ARRANGEMENT AT SC2121593

## COMMISSIONING PLAN

TENTATIVE ONLY - SUBJECT TO ENERGEX'S OUTAGE COORDINATOR

## HV & LV SWITCHING

### HV SWITCHING

- OPEN IS9327 AT SC6134
- OPEN ABS AT X71086
- OPEN ABS AT X4181
- OPEN IS7117 AT SC5605
- TERMINATE 11kV CABLE AT STN 1 & 2
- REVERSE SWITCHING & COMMISSION PMT

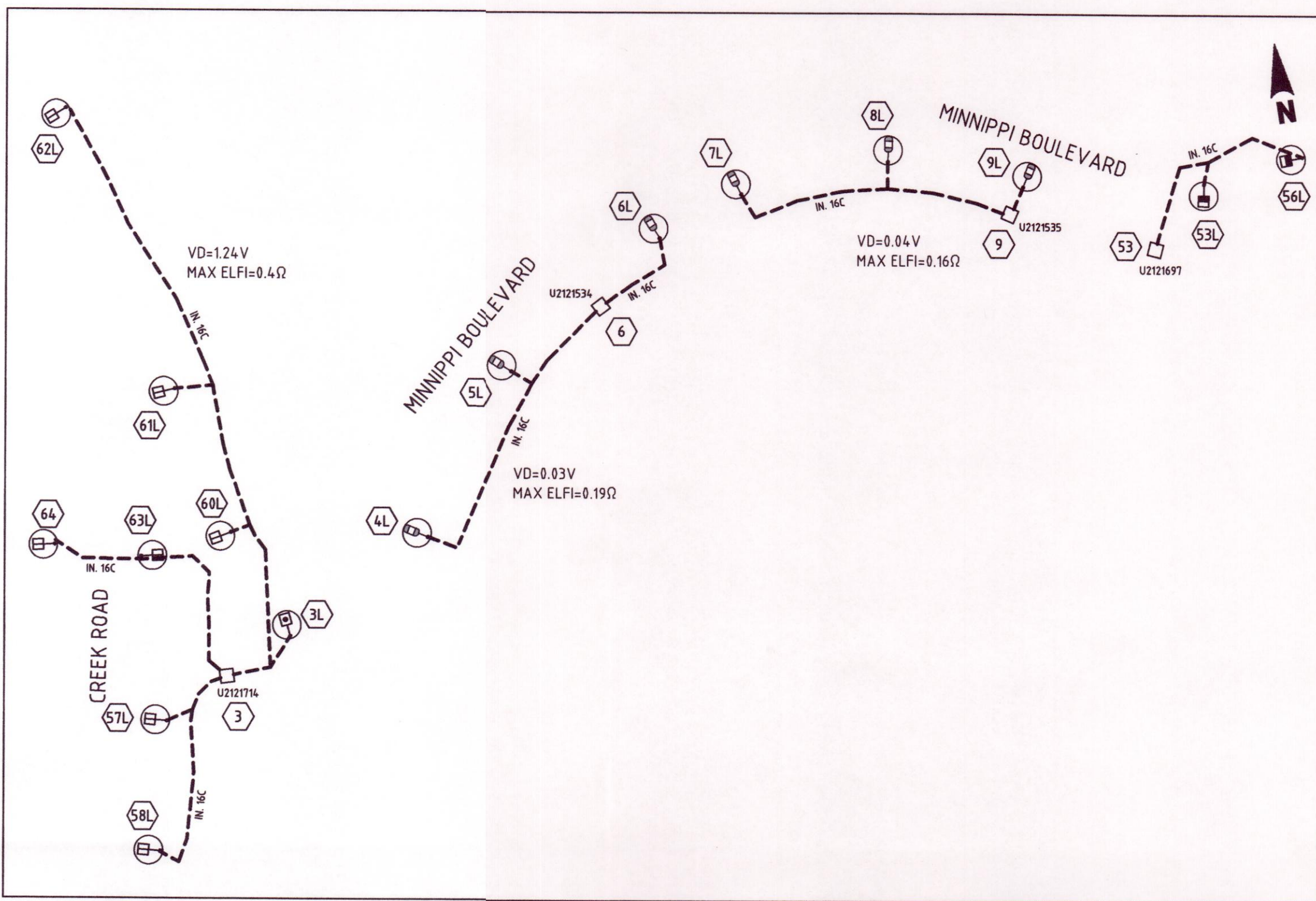
### LV SWITCHING

- OPEN ISOLATOR AT SP3140
- TERMINATE NEW LV CABLE AT P2121422
- ESTABLISH NEW LV OPEN POINT AT P2121422
- CLOSE ISOLATOR AT SP3140
- SWITCHING & COMMISSION NEW PMT

### GENERATOR

- 315kVA GENERATOR AT SP3140

**FINAL/PARTIAL**  
**AS CONSTRUCTED**  
**CV ENERGY SERVICES**  
**PHONE: (07) 3622 4333 FAX: (07) 3622 4334**  
**NAME:** [Signature]  
**SIGN:** [Signature]  
**DATE:** 7-4-17





- POP

PRIVATELY OPERATED PAYPHONES
- APS

ASSISTANCE TELEPHONES (EG ELEVATOR AND ROADSIDE PHONES)
- MET

APPLY TO OTHER TYPE OF METERING POINT ( any service)
- ATM

ATM
- PRK

BANDSTAND / ROTUNDA / SPORTS FIELD STANDS / OTHER PARK BUILDING
- PSD

POINT OF SALE DEVICE (vending machine, ticket machine)
- TRF

Traffic Lights / Traffic Light Controller / Variable Speed Sign / Traffic Signal
- PBT

Public Transport (bus stop, tram stop, railway station, taxi rank, ferry wharf)
- SWT

Links / Link Pole / MV / HV Links / ABC Links / Dynamic Switch / Airbrake Switch / Isolator
- WAT

Water Infrastructure (storage, pumps, valves water supply, waste water, sewerage stations)
- GAS

Natural Gas Infrastructure
- CAM

Camera (security / traffic)
- CTL

Bridge control, swing bridge, traffic control gates, railway boom gates)
- MOB

Mobile Phone Tower / radio antenna
- LIT

Street Lighting Pole / street light controller
- CAR

Unmanned (council) car park
- PWR

Transformer / Kiosk / Pad Mount Sub-station / Pole Mount Transformer

- NAP-ID

Network Access Point (NAP)
- MPT-ID

Multiport (MPT)  
n is the number of ports (eg 4,6,8,12)

- TJL-ID

Splice Joint on a Transit Cable (TJL)
- DJL-ID

Splice Joint on a Distribution Cable (DJL)
- LJL-ID

Splice Joint on a Local Cable (LJL)
- MJL-ID

Splice Joint on a Tether Cable (MJL)
- AJL-ID

Zone Terminal / Splice Joint (AJL)

- FDH-ID

Fibre Distribution Hub-FDH Cabinet with Cabinet ID shown
- PIT-ID

2

Service Drop Access Pit  
(650mmX280mmX565mm)
- PIT-ID

5

Network Boundary/Local Network Pit (Single Lid)  
(700mmX450mmX650mm)
- PIT-ID

8

Distribution/Local Network Connection Pit  
(1360mmX555mmX860mm)
- PIT-ID

9

Fibre Distribution Hub (FDH) Pit  
(2000mmX555mmX900mm)

- Existing Telstra manhole
- 5

Existing Telstra Pit ( 2,3,4,5,6,7,8,9 )
- Telstra exchange



- M

< — >

NBN MARKER POST  
MARKER POST TO BE NUMBERED

- DES

QTY

Example of descriptor box that will show the type of work and the quantity involved

- PCD

Premise Connection Device (PCD)

- POLE-ID

Pole (showing pole identity)

- FAN

AAAA

Fan Access Node site (FAN)

- 138A

RX  
CX

Multi Dwelling Unit (MDU)

- DEPTH --

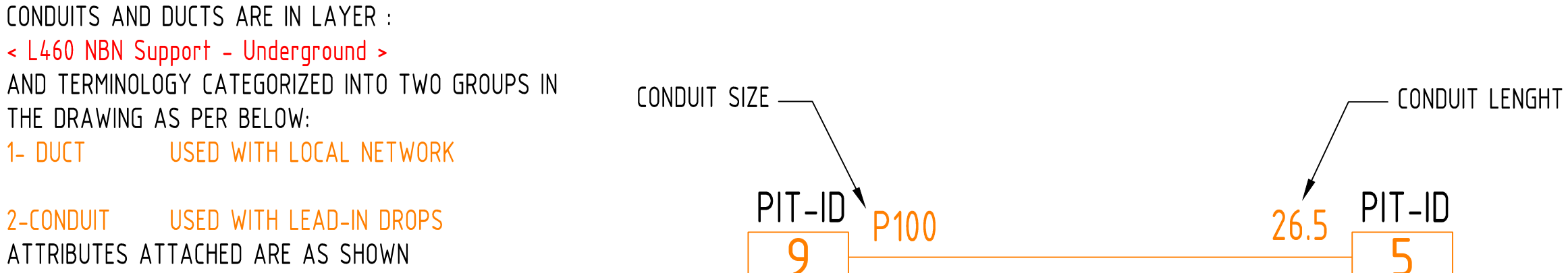
ALIGN --

DEPTH OVER ALIGNMENT SYMBOL TO BE USED WITH EVERY MARKER POST

- X

Symbol to be used when replacing/removing existing network

CABLE TRAY:



## CABLE CONFIGURATION

- CABLE TYPE:

CABLES DIVIDE INTO FOLLOWING CATEGORIES AND ARE COLOUR CODED:

TRANSIT CABLES

COLOUR NO: 1

312F

DISTRIBUTION CABLES

COLOUR NO: 190

288F

LOCAL CABLES

COLOUR NO: 4

144F

TETHER CABLES

COLOUR NO: 3

12F

LEAD IN (DROP) CABLES

COLOUR NO: 5

1F

CABLE SIZE:  
CABLE SIZE IS THE TOTAL NUMBER OF OPTIC FIBRES IN THE CABLE AND IS DETERMINED BY A NUMBER FOLLOWED BY F (FIBRE) OR R (RIBBON) IN THE MIDDLE OF THE LINE TYPE



CABLE LOCATION:  
CABLE LOCATIONS DETERMINES WHERE THE CABLE IS USED AS PER BELOW:

- IN-CONDUIT

288F
- AERIAL

144F
- BURIED

96F

LINE TYPES ARE CATEGORIZED INTO 3 TYPES:  
1- IN-CONDUIT: (XXXXF) 312F , ...  
2- AERIAL: (XXXXF\_A) 144\_A , ...  
3- BURIED: (XXXXF\_B) 12\_B , ...

- EXAMPLE:

144 FIBRE AERIAL LOCAL CABLE

144F
- 1 FIBRE BURIED DROP CABLE

1F
- 432 FIBRE IN-CONDUIT TRANSIT CABLE

48F

- FSA Boundary
- FSAM Boundary
- FDA Boundary

STAFF WORKING ON THIS ESTIMATE PLEASE  
NOTE: The location of other authorities services which may affect this work have not been obtained by the estimator. Constructor to obtain service information before commencing.



SAFETY FIRST  
SAFETY STARTS WITH YOU

**\*\*ATTENTION\*\***  
CONSTRUCTORS DO NOT change or alter job specifications unless first checking with designer.

REV	DATE	DRAFTER	DESCRIPTION	APPROVED
D	04/04/17	KELSEY WILLIAMS	AS CONSTRUCTED	KENT GOSDEN
C	26/10/16	KELSEY WILLIAMS	ISSUED FOR CONSTRUCTION	KENT GOSDEN
B	22/09/16	KELSEY WILLIAMS	NBN MARKUPS ADDED	KENT GOSDEN
A	16/08/16	KELSEY WILLIAMS	INITIAL ISSUE	KENT GOSDEN

NBNCO APPROVAL RECORD:

SIGNATURE

DATE

☐ DD

☐ WD

☐ AB

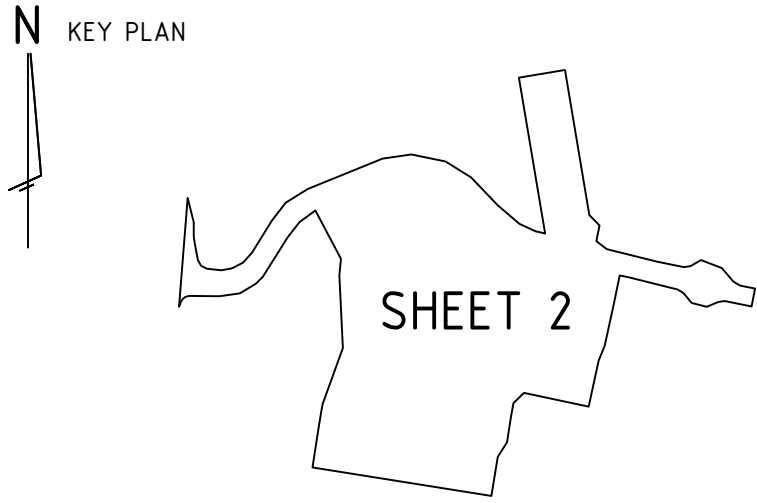
QUALITY RECORD :

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THIS DESIGN HAS BEEN PREPARED BY:

ELECTRO  
TECHNICAL CONSULTANTS PTY LTD  
CONTACT: MAX GOSDEN



DRAWING TITLE:

NBN PIT AND PIPE DESIGN  
CANNON HILL - STAGES 1 & 2  
CREEK ROAD  
CANNON HILL

STATE: QLD

REGION:

FSA:

FSAM:

FDA:

PROJECT No: AYCA-29GLFD

CADREF No:

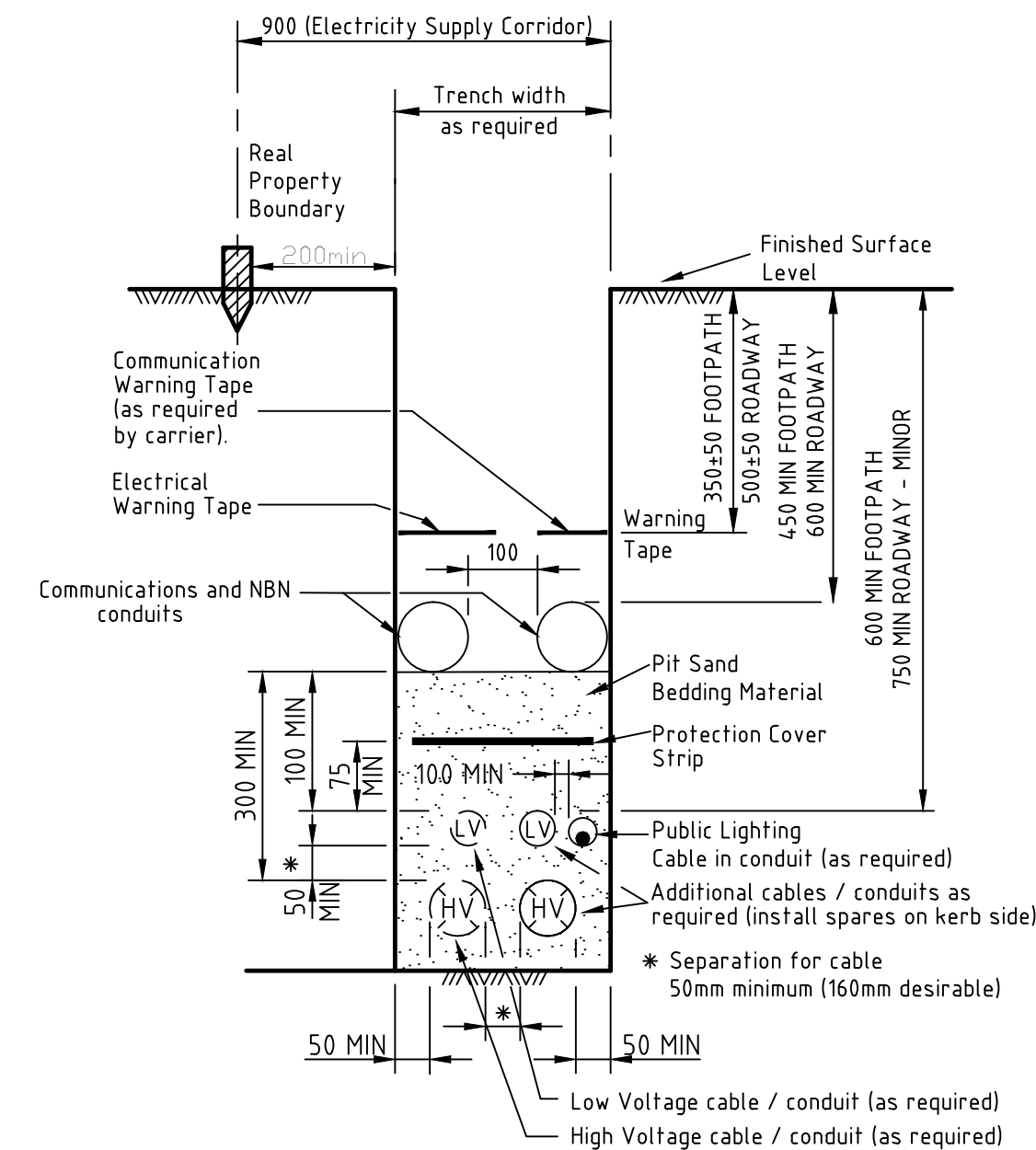
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SHEET No. 1 OF 2

REV. D



AS CONSTRUCTED



ALL CONSTRUCTION TO BE INSTALLED IN SHARED TRENCH UNLESS OTHERWISE SHOWN

#### Development Information

Development Name:	Developer Company:
CANNON HILL	CV SERVICES
Development Address:	
CREEK ROAD CANNON HILL	
Authorised Rep:	
KELSEY WILLIAMS	
Phone: 3871 1139	
E-Mail: admin@electro.net.au	
CRM ID:	Stage Number:
AYCA-29GLFD	1 & 2


#### BILL OF MATERIAL

NO OF LOTS: 54				
PITS		DUCTS		
SIZE	QTY	SIZE	QTY	MTRS
2	8	P100	30	144.18
5	20	P50	9	182.5
8	6	P23	53	799
9	1			
TOTAL NUMBER OF PITS: 35				
TOTAL NUMBER OF CONDUITS: 92				
TOTAL LENGTH OF CONDUITS: 2423.3				


**\*\*ATTENTION\*\***  
CONSTRUCTORS DO NOT change or alter job specifications unless first checking with designer.

REV	DATE	DRAFTER	DESCRIPTION	APPROVED
D	04/04/17	KELSEY WILLIAMS	AS CONSTRUCTED	KENT GOSDEN
C	26/10/16	KELSEY WILLIAMS	ISSUED FOR CONSTRUCTION	KENT GOSDEN
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NBNCO APPROVAL RECORD:	
SIGNATURE	DATE
<input type="checkbox"/> DD	_____
<input type="checkbox"/> WD	_____
<input type="checkbox"/> AB	_____
QUALITY RECORD :	
NBNCO DISCLAIMER	
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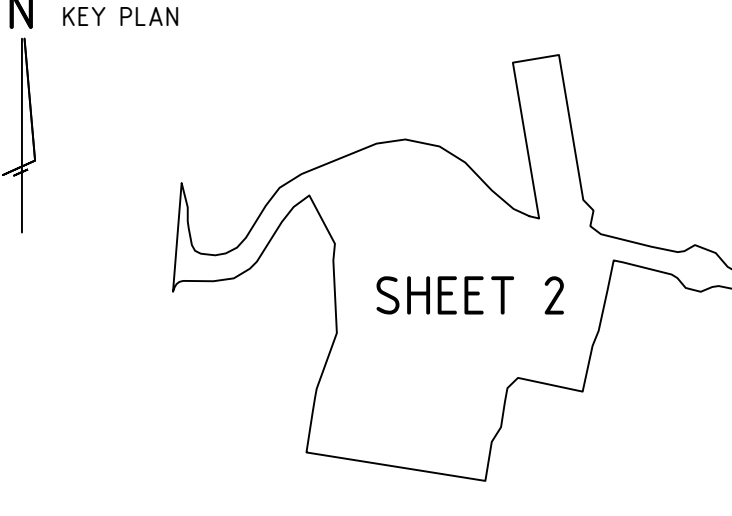


THIS DESIGN HAS BEEN PREPARED BY:



Proj. K3482-3

KEY PLAN



SHEET 2

DRAWING TITLE:		
NBN PIT AND PIPE DESIGN CANNON HILL - STAGES 1 & 2 CREEK ROAD CANNON HILL		
STATE: QLD	REGION:	
FSA:	FSA:	FDA:
PROJECT No: AYCA-29GLFD		
CADREF No:		
SCALE: 1:1000@A1	SHEET No. 2 OF 2	REV. D