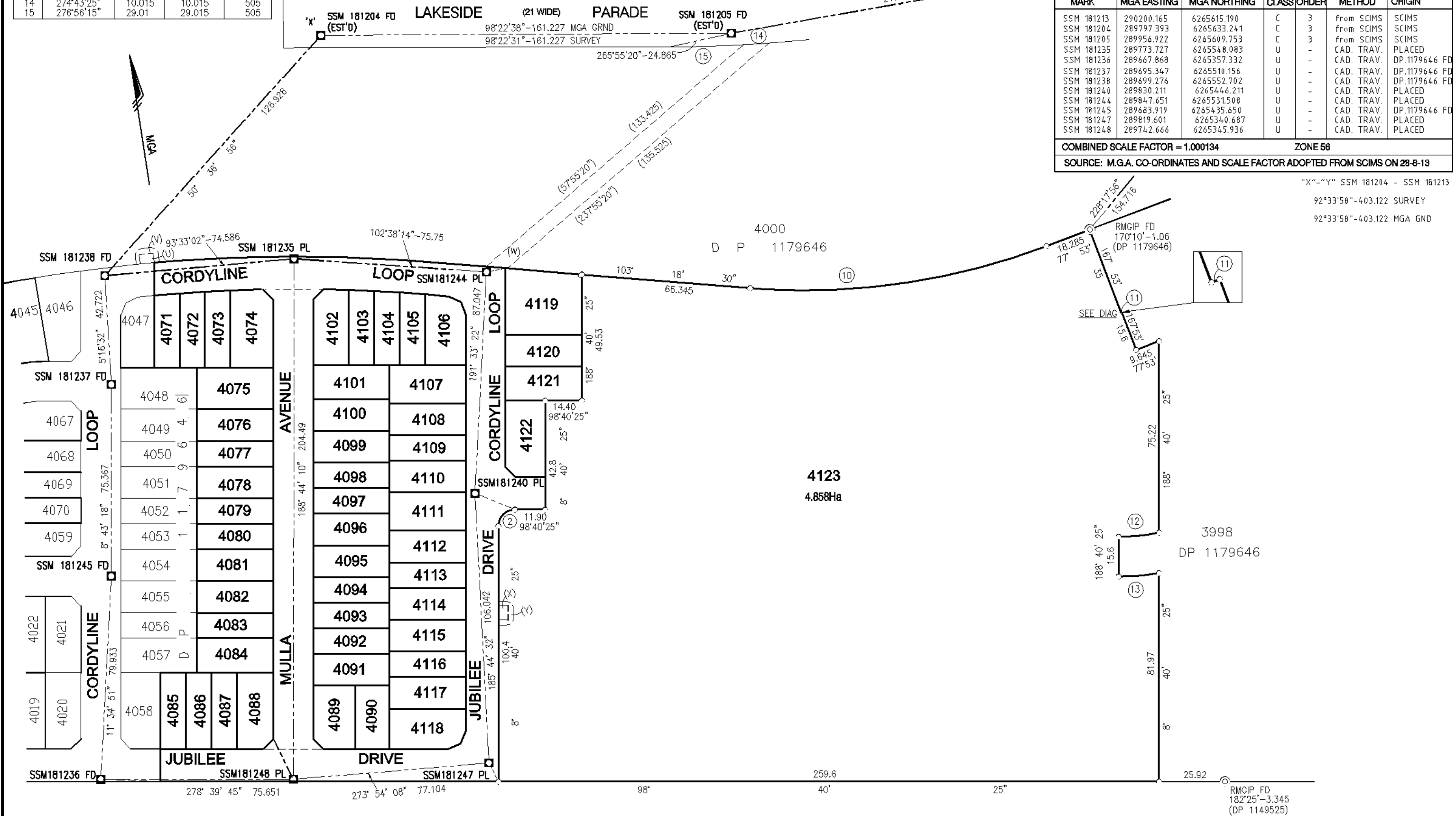
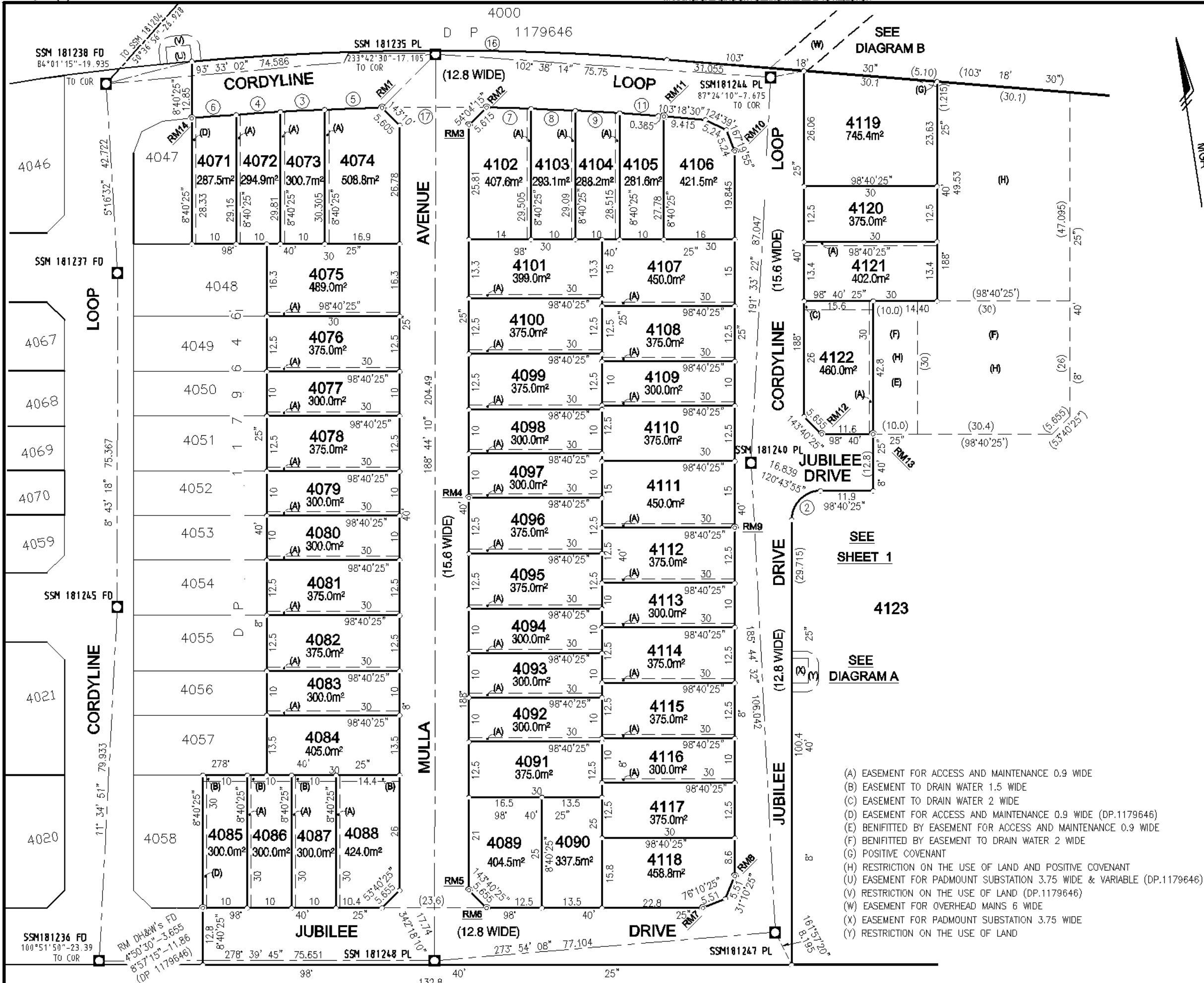


SCHEDULE OF CURVED BOUNDARIES

Line	Chord		Arc	Radius
	Bearing	Distance		
2	53°40'25"	9.19	10.21	6.5
10	270°35'45"	117.555	118.525	267.1
11	258°06'05"	0.23	0.23	30
12	272°44'15"	15.965	15.995	77.2
13	273°44'45"	15.94	15.96	92.8
14	274°43'25"	10.015	10.015	505
15	276°56'15"	29.01	29.015	505





SCHEDULE OF RM DH & WINGS

NO.	BEARING	DISTANCE	MARK
1	206°55'20"	3.73	PLACED
2	206°28'10"	12.60	
	188°18'25"	3.345	PLACED
3	189°10'	11.935	
	101°53'50"	3.575	PLACED
4	101°58'15"	11.95	
	107°53'40"	3.74	PLACED
5	98°28'40"	11.815	
	97°42'25"	3.615	PLACED
	101°01'20"	11.905	
6	8°19'40"	3.605	PLACED
	8°41'	11.885	
7	7°47'40"	3.64	PLACED
	8°03'55"	11.94	
8	27°43'50"	3.65	PLACED
	277°24'20"	11.935	
9	267°57'45"	3.735	PLACED
	278°48'20"	11.87	
10	273°25'40"	3.58	PLACED
	273°19'20"	11.955	
11	185°10'30"	3.64	PLACED
	193°10'45"	12.45	
12	3°27'10"	3.645	PLACED
	6°54'35"	11.895	
13	12°23'	3.695	PLACED
	11°52'15"	11.86	
14	194°56"	3.72	FD DP.1179646
	194°41'20"	12.15	

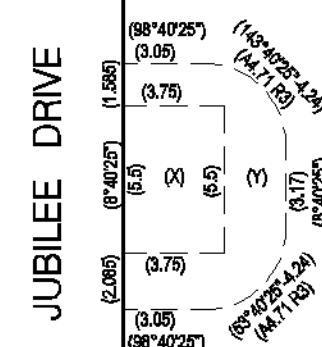


DIAGRAM A

SCALE 1:200

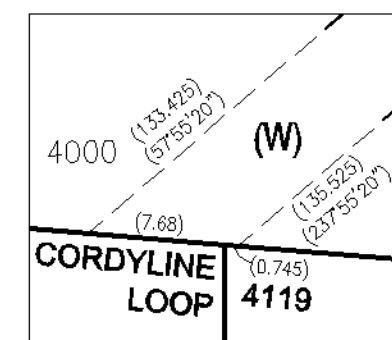


DIAGRAM B

N.T.S.

SCHEDULE OF CURVED BOUNDARIES

Line	Chord		Arc	Radius
	Bearing	Distance		
2	53°40'25"	9.19	10.21	6.5
3	95°49'30"	10.01	10.01	621.6
4	94°54'10"	10.02	10.02	621.6
5	96°52'55"	12.905	12.905	621.6
6	93°58'40"	10.035	10.035	621.6
7	100°06'50"	10.005	10.005	621.6
8	101°02'10"	10.01	10.01	621.6
9	101°57'30"	10.015	10.015	621.6
11	102°51'50"	9.64	9.64	621.6
16	98°27'50"	107.15	107.275	634.4
17	98°33'50"	23.6	23.6	621.6

SEE
SHEET 1SEE
DIAGRAM A

- (A) EASEMENT FOR ACCESS AND MAINTENANCE 0.9 WIDE
 (B) EASEMENT TO DRAIN WATER 1.5 WIDE
 (C) EASEMENT TO DRAIN WATER 2 WIDE
 (D) EASEMENT FOR ACCESS AND MAINTENANCE 0.9 WIDE (DP.1179646)
 (E) BENEFITTED BY EASEMENT FOR ACCESS AND MAINTENANCE 0.9 WIDE
 (F) BENEFITTED BY EASEMENT TO DRAIN WATER 2 WIDE
 (G) POSITIVE COVENANT
 (H) RESTRICTION ON THE USE OF LAND AND POSITIVE COVENANT
 (U) EASEMENT FOR PADMOUNT SUBSTATION 3.75 WIDE & VARIABLE (DP.1179646)
 (V) RESTRICTION ON THE USE OF LAND (DP.1179646)
 (W) EASEMENT FOR OVERHEAD MAINS 6 WIDE
 (X) EASEMENT FOR PADMOUNT SUBSTATION 3.75 WIDE
 (Y) RESTRICTION ON THE USE OF LAND

Surveyor: PAUL ANTHONY HOMANN

Date of Survey: 30th AUG 2013

Surveyor's Ref: D646-DP27
(Cad Ref: D646-DP27-001.dwg)PLAN OF
SUBDIVISION OF LOT 3999 IN DP. 1179646 AND
EASEMENT OVER LOT 4000 IN DP. 1179646

L.G.A.: PENRITH

Locality: JORDAN SPRINGS

Subdivision No:
Lengths are in metres. Reduction Ratio 1: 500

Registered:

D.P.

WORK COMPLETED / FIELD BOOK

CONSTRUCTED BY

WORKS COMPLETED

SIGNATURE DATE

INSPECTED BY

UNDERGROUND ASSETS

INSTALLED BY

RECORDED BY

CONTACT No.

SIGNATURE DATE

LEGEND

- PROPOSED PADMOUNT SUBSTATION
- EXISTING PADMOUNT SUBSTATION
- PROPOSED LV PILLAR
- EXISTING LV PILLAR
- PROPOSED S.L. COLUMN (REFER TO SCHEDULE)
- EXISTING S.L. COLUMN
- HV CABLE TRENCH
- LV CABLE TRENCH
- INSTALL 40mm PVC SERVICE CONDUIT
- EXISTING UNDERGROUND CABLE
- EXISTING DUCT LOCATIONS
- PILLAR EARTHING LOCATIONS
- PROPOSED OVERHEAD MAINS
- NEW POLE

PLAN SYMBOLS

- SPARE DUCT
- DUCT WITH CABLE
- DUCT WITH NEW CABLE

PVC DUCT SCHEDULE

LOCATION	DUCT CONFIG.	ROUTE LENGTH	CUSTOMER FUNDED	ENDEAVOUR FUNDED	RATE PER METRE	ENDEAVOUR REIMBURSED	EXISTING DUCT USAGE CHARGE
A - B	SL LV NEW	25m	4 x 125mm	NIL	NIL	NIL	NIL
C - D	2xLV 2xHV NEW	55m	3 x 125mm	NIL	NIL	NIL	NIL
TOTAL ROUTE LENGTH		75m	TOTAL ENDEAVOUR REIMBURSED			NIL	NIL

THE CERTIFICATION OF THIS PRODUCT IS SUPPORTED BY THE FOLLOWING KEY DOCUMENTS -

DOCUMENT NAME	NOTATION DATE
ENVIRONMENTAL IMPACT ASSESSMENT (EMS0001) - FAT0038.	18.6.13
AGREEMENT FOR ENTRY, GRANT AND CREATION OF EASEMENT - FPJ5013.	-
EQUIPMENT TO BE RETURNED TO ENDEAVOUR ENERGY - FPJ4252 (SWITCH GEAR TRANSFORMERS & BARE COPPER CONDUCTOR).	-
EQUIPMENT TO BE RETURNED TO ENDEAVOUR ENERGY - FPJ4253 (TREATED TIMBER POLES AND CONCRETE POLES).	-
TELECOMMUNICATION ASSET AGREEMENT - FPJ4184.	-
PROJECT DEFINITION.	-

THIS DRAWING SUPPLIES 52 + 2 FUTURE LOTS

CAP No.	FILE No.	LOT No.	No OF LOTS	DEVELOPER	DEVELOPER'S REP.	TEL No.
URS 13642	2012 / 08457 / 001	4071 - 4122	52	MARYLAND DEV. CO.	A.ALI	8016 6520

ALL COLUMNS INDICATED THUS ARE TO BE INSTALLED 1.5 METRES OFFSET FROM THE SIDE PROPERTY BOUNDARY OR DRIVEWAY AS SHOWN.

ALL PILLARS ARE TO BE INSTALLED 1.5m OFFSET FROM THE SIDE PROPERTY BOUNDARY UNLESS SHOWN OTHERWISE.

WARNING / BEWARE:
EX. UG. CABLES IN THIS AREA.

URS 13641
E.E. DRG. No.383253

THIS PROJECT IS TO BE CONSTRUCTED
IN CONJUNCTION WITH URS 13641 DRG 383253

FUNDING ARRANGEMENTS FOR SCOPE OF WORKS

ASP LEVEL 1 ELECTRICAL WORKS		CUSTOMER
ENDEAVOUR ENERGY SUPPLIED MATERIALS	CUSTOMER FUNDED NON-CONTESTABLE WORKS	CUSTOMER FUNDED
1 x 315KVA 11KV TRANSFORMER.	SWITCHING, INSPECTION AND COMMISSIONING COSTS	INCLUDES BUT NOT LIMITED TO:
ENDEAVOUR ENERGY FUNDED & CONSTRUCTED	CUSTOMER FUNDED - CONTESTABLE	- PEGGING OF EASEMENTS, PROPERTY BOUNDARIES AND INFRASTRUCTURE LOCATIONS.
WORKS REQUIRED PRIOR TO COMPLETION OF CUSTOMER CONTESTABLE PROJECT.	WORKS REQUIRED IN ASSOCIATION WITH CUSTOMER CONTESTABLE PROJECT.	- REGISTRATION OF EASEMENTS.
NIL	NIL	- PROVIDING ACCESS.
ENDEAVOUR ENERGY FUNDED & ASP L1 CONSTRUCTED - REIMBURSED	- INSTALLATION & ESTABLISHMENT OF THE PM. SUBSTATION.	- OWN SERVICE & SERVICE CONNECTION.
	- TRENCHING	- CONFIRM FINISHED GROUND LEVELS.
	- DUCT INSTALLATION (AS SHOWN ON SHEET 2).	EXISTING DUCT USAGE CHARGE
	- CABLE LAYING AND / OR INSTALLATIONS.	NIL
	- JOINTING.	COORDINATION SUPPLY REQUIRED DATE (TO BE CONFIRMED WITH PROJECT MANAGER)
	- OVERHEAD INSTALLATIONS.	DATE: 30 MONTH: 08 YEAR: 2013
NIL		ASSETS TO BE RETURNED TO THE NEAREST ENDEAVOUR ENERGY DEPOT BY LEVEL 1 ASP.
		NIL

DRESS FOR UG. - OH. HV. TERMINATION				883648	50	0	HUGOH	-	600 1.85	12.5/8	G	X	X	4
				883647	50	0	A21	-	600 1.85	12.5/8	G	X	X	3
DRESS FOR UG. - OH. HV. TERMINATION				883646	30	0	A21	-	600 1.85	12.5/8	G	X	X	2
				883645			HUGOH	-	600 1.85	12.5/8	G	X	X	1
REMARKS	EX. E.E. POLE NUMBER	NEW E.E. POLE NUMBER	SPAN LENGTH (m)	LINE DEV DEGREE (°)	HV	LV								
	DIA (mm)						DIA (mm)	DEPTH (m)	TYPE	STAY	EXISTING	REPLACE	NEW	NUMBER
	POLE ID No.						CONSTRUCTION	HOT F		POLE				

AUTHORISATION OF ESTIMATED VALUE OF ENDEAVOUR ENERGY FUNDED ASSETS

SIGNED.....

PRINT NAME Eugene Lorenzo

SERVICE NUMBER.....37600

FUNDING AMOUNT \$ 18,370.00

DATE.....06/08/2013

APPROVAL TO CONNECT TO PUBLIC LIGHTING

Date Approved 2/08/2013

Reviewers Name Dragana Hele

Reviewers Signature.....

This approval is issued subject to Endeavour Energy's General Terms & Conditions for connection of Public Lighting and is specifically for drawing number 383627 amendment A.

CERTIFIED BY ENDEAVOUR ENERGY

AMENDMENT.....A

DATE APPROVED: 06/08/2013

EXAMINER'S SIGNATURE.....

PRINT NAME: Eugene Lorenzo

THIS CERTIFICATION IS ISSUED SUBJECT TO ENDEAVOUR ENERGY'S STANDARD CERT. TERMS.



- NOTES**
- THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ENDEAVOUR ENERGY'S MCI 0005, MCI 0006, MCI 0028, MCI 0031, THE RELEVANT SDI AND THE GENERAL TERMS AND CONDITIONS FOR NEW URBAN SUBDIVISIONS SPJ 4004 & THE DUCT, EASEMENT AND TRENCH REQUIREMENTS DRAWING.
 - ENDEAVOUR ENERGY CONTACT PHONE No. 131081.
 - DESIGN CERTIFICATION SHALL LAPSE WHERE :-
(i) NOTICE OF INTENT HAS NOT BEEN RECEIVED WITHIN SIX (6) MONTHS OF THIS CERTIFICATION, OR
(ii) CONSTRUCTION HAS BEEN INTERRUPTED FOR MORE THAN SIX (6) MONTHS. WHERE DESIGN CERTIFICATION HAS LAPSED, THE DESIGN MUST BE RESUBMITTED FOR CERTIFICATION BY THE ACCREDITED DESIGNER.
 - ATTENTION - PERMANENT SURVEY MARKS MAY EXIST IN THIS AREA. THESE ARE TO BE LOCATED BY A SURVEYOR PRIOR TO THE COMMENCEMENT OF WORK.
 - ATTENTION - ALL SERVICES SEARCHES MUST BE CHECKED BEFORE CONSTRUCTION.
 - WARNING - LIVE ENDEAVOUR ENERGY CABLES AND OTHER SERVICES IN THIS AREA. PLEASE CONTACT - DIAL BEFORE YOU DIG ON TEL:-1100 FOR SEARCHES A MINIMUM TWO DAYS PRIOR TO EXCAVATION
 - ATTENTION - SERVICE PROVIDER TO NOTIFY ENDEAVOUR ENERGY'S ASSET DATA CUSTOMER DEPT. DAILY WHEN CABLE WORKS IS IN PROGRESS. TELEPHONE 131 081.
 - OPERATIONAL LIMITS - UNLESS APPROVED OTHERWISE, INTERRUPTIONS TO ANY CUSTOMER'S SUPPLY MUST BE AVOIDED. THE FOLLOWING ALTERNATIVES SHOULD BE CONSIDERED:
- MOBILE GENERATORS OR SUBSTATIONS.
- LIVE LINework.
- DESIGN ALTERNATIVES.
- LOW VOLTAGE PARALLELS.
- WORK PRACTICES / STANDARDS.

ALL WORKS TO BE CONSTRUCTED ARE TO BE COMPLETED IN ACCORDANCE WITH ENDEAVOUR ENERGY'S GENERIC ENVIRONMENTAL PLAN - EMS 0001.

WARNING

LIVE ENDEAVOUR ENERGY CABLES AND OTHER SERVICES EXIST IN THIS AREA. PLEASE CONTACT - DIAL BEFORE YOU DIG ON TEL:-1100 FOR SEARCH INFORMATION A MINIMUM TWO DAYS PRIOR TO EXCAVATION

THE NOTIFICATION OF
ARRANGEMENT FOR THIS
PROJECT WILL NOT BE
ISSUED UNTIL THE
WORKS PROPOSED
UNDER URS 14218
ARE COMPLETE.

DESIGN COMPLIANCE AND INDEMNITY

This design complies with the Endeavour Energy's relevant standards as current at this time and as listed on the Endeavour Energy Accredited Service Provider's Internet site. These standards include, but are not limited to:

- GT&C : General Terms and Conditions
- EMS : Environmental Management Standard
- MCI : Mains Construction Instruction
- MDI : Mains Design Instruction
- PDI : Protection Design Instruction
- SDI : Substation Design Instruction
- SAD 0001 : Design Drawing Standard
- MMI : Mains Maintenance Instruction
- SMI : Substation Maintenance Instruction
- LDI 0001 : Public Lighting Electrical Design Element

Additionally, where relevant, the design complies with C(b) - 1 "Guideline for Design and Maintenance of Overhead Distribution and Transmission Lines" published by ENA and other relevant Australian Standards.

ESTATE POWER DESIGN
indemnifies Endeavour Energy for any loss or damage resulting from non-compliance of the design with the above standards.

Signed.....

Names..... BRIAN JUDE

Service Provider Number.....1033 Date: 29 / 06 / 2013

EPD REFERENCE No.
23/365/ER4B



A1 383627 A

SHEET No 1 OF 2 SHEETS

ESTATE POWER DESIGN PTY LIMITED
ABN 69 002 331 142
ELECTRICAL RETICULATION CONSULTANTS
142 SUNNYHOLT ROAD, BLACKTOWN 2148
TEL.(02) 9621-3433 FAX (02) 9671-7256
EMAIL: brian@estatepower.com.au

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REFERENCE DRAWING'S

383626 DUCT, EASEMENT & TRENCH REQ'S

WORK ORDERS

GENERAL

OVERHEAD

UNDERGROUND

SUBSTATIONS

CAP / SAMP No.

URS 13642

AM PROJ. No.

HV SWITCHING

UBD/PENGUIN REF

MAP 144 REF D13

GIS MAP No

7360.12

HV OP DIAGRAM

CRANE BROOK

LOCAL GOV AREA

PENRITH

ORIGINAL SCALE

1:1000

DRAWN

MV

DATE

26.07.13

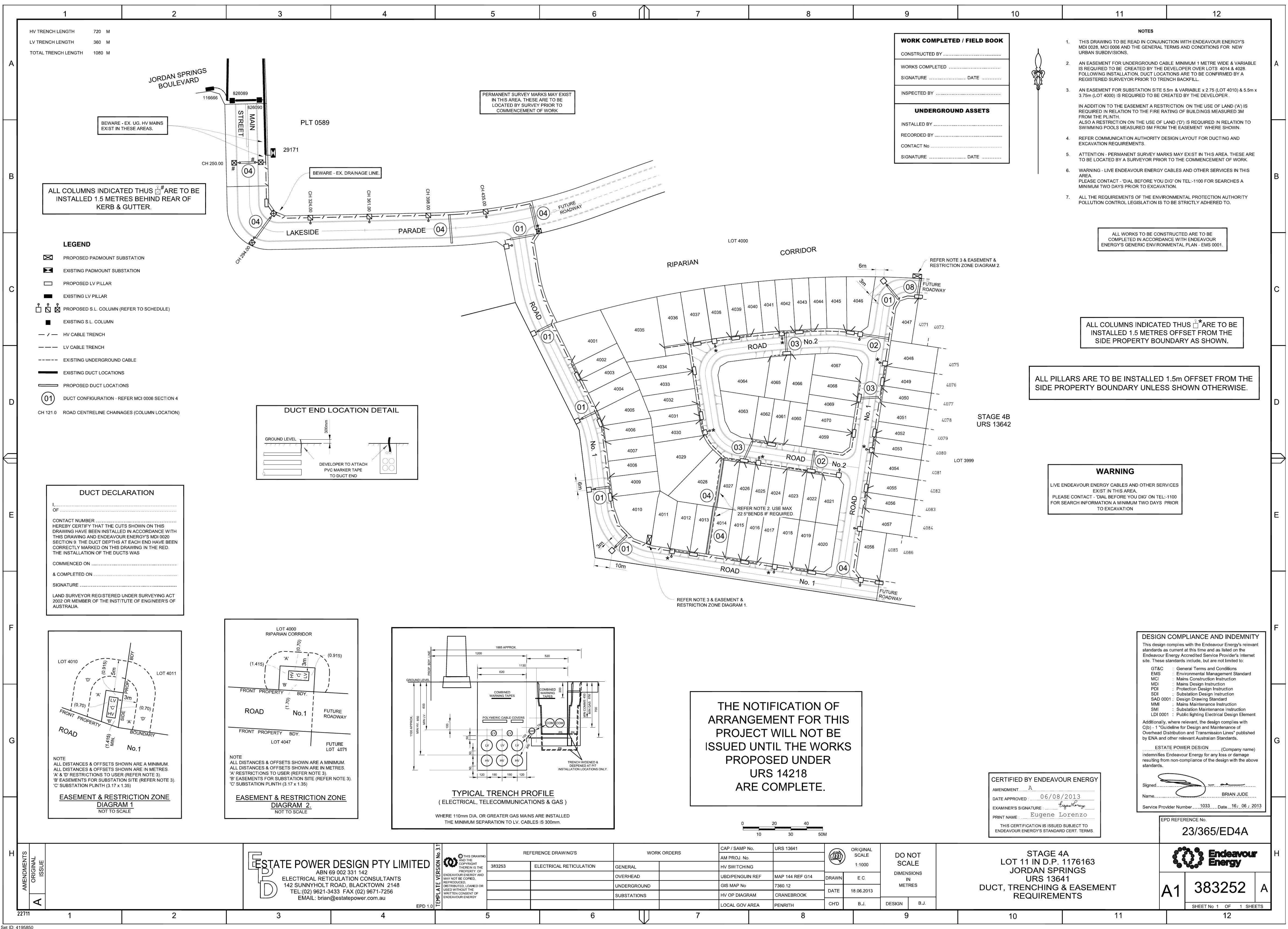
CHD

B.J.

DO NOT SCALE

DIMENSIONS IN METRES

LOT 3999 - ROAD No.3
JORDAN SPRINGS
URS 13642
ELECTRICAL RETICULATION
STAGE 4B



HV TRENCH LENGTH 720 M
LV TRENCH LENGTH 360 M
TOTAL TRENCH LENGTH 1080 M

WORK COMPLETED / FIELD BOOK

CONSTRUCTED BY

WORKS COMPLETED

SIGNATURE DATE

INSPECTED BY

UNDERGROUND ASSETS

INSTALLED BY

RECORDED BY

CONTACT No.

SIGNATURE DATE

- NOTES**
- THIS DRAWING TO BE READ IN CONJUNCTION WITH ENDEAVOUR ENERGY'S MDI 0028, MCI 0006 AND THE GENERAL TERMS AND CONDITIONS FOR NEW URBAN SUBDIVISIONS.
 - AN EASEMENT FOR UNDERGROUND CABLE MINIMUM 1 METRE WIDE & VARIABLE IS REQUIRED TO BE CREATED BY THE DEVELOPER OVER LOTS 4014 & 4028 FOLLOWING INSTALLATION, DUCT LOCATIONS ARE TO BE CONFIRMED BY A REGISTERED SURVEYOR PRIOR TO TRENCH BACKFILL.
 - AN EASEMENT FOR SUBSTATION SITE 5.5m & VARIABLE x 2.75 (LOT 4010) & 5.5m x 3.75m (LOT 4000) IS REQUIRED TO BE CREATED BY THE DEVELOPER.
- IN ADDITION TO THE EASEMENT A RESTRICTION ON THE USE OF LAND (A) IS REQUIRED IN RELATION TO THE FIRE RATING OF BUILDINGS MEASURED 3M FROM THE PLINTH. ALSO A RESTRICTION ON THE USE OF LAND (D) IS REQUIRED IN RELATION TO SWIMMING POOLS MEASURED 5M FROM THE EASEMENT WHERE SHOWN.
- REFER COMMUNICATION AUTHORITY DESIGN LAYOUT FOR DUCTING AND EXCAVATION REQUIREMENTS.
 - ATTENTION - PERMANENT SURVEY MARKS MAY EXIST IN THIS AREA. THESE ARE TO BE LOCATED BY A SURVEYOR PRIOR TO THE COMMENCEMENT OF WORK.
 - WARNING - LIVE ENDEAVOUR ENERGY CABLES AND OTHER SERVICES IN THIS AREA. PLEASE CONTACT - 'DIAL BEFORE YOU DIG' ON TEL:-1100 FOR SEARCHES A MINIMUM TWO DAYS PRIOR TO EXCAVATION.
 - ALL THE REQUIREMENTS OF THE ENVIRONMENTAL PROTECTION AUTHORITY POLLUTION CONTROL LEGISLATION IS TO BE STRICTLY ADHERED TO.

ALL WORKS TO BE CONSTRUCTED ARE TO BE COMPLETED IN ACCORDANCE WITH ENDEAVOUR ENERGY'S GENERIC ENVIRONMENTAL PLAN - EMS 0001.

ALL COLUMNS INDICATED THUS ARE TO BE INSTALLED 1.5 METRES OFFSET FROM THE SIDE PROPERTY BOUNDARY AS SHOWN.

ALL PILLARS ARE TO BE INSTALLED 1.5m OFFSET FROM THE SIDE PROPERTY BOUNDARY UNLESS SHOWN OTHERWISE.

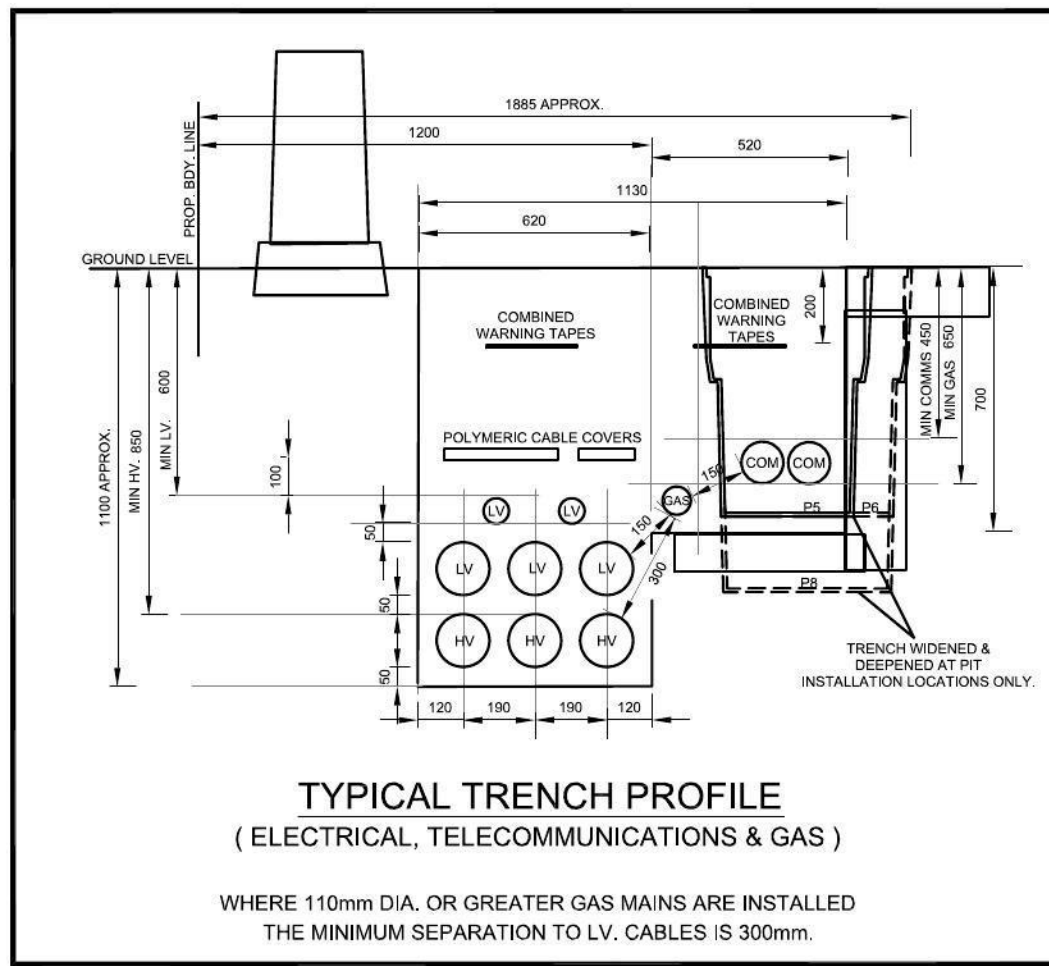
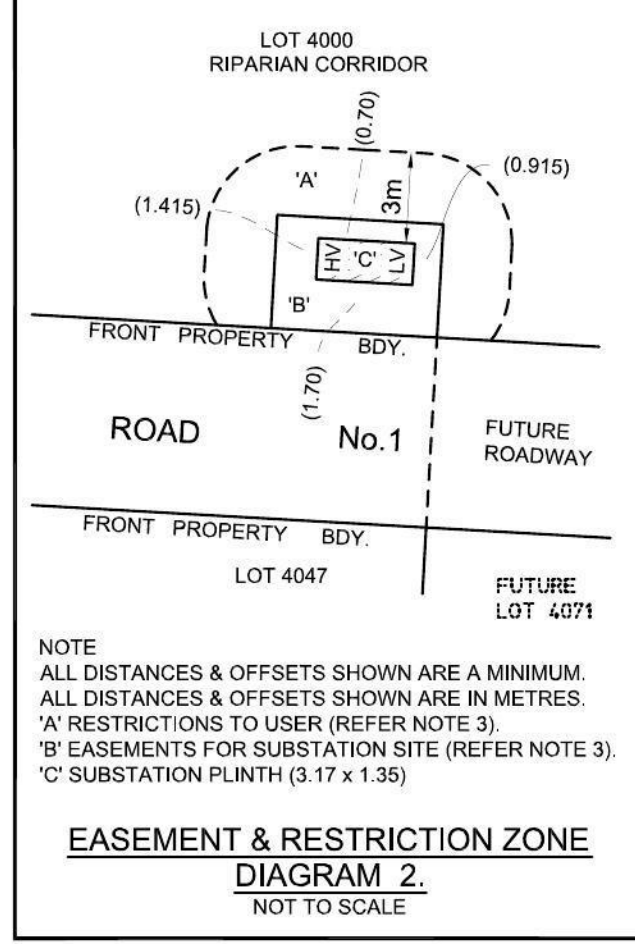
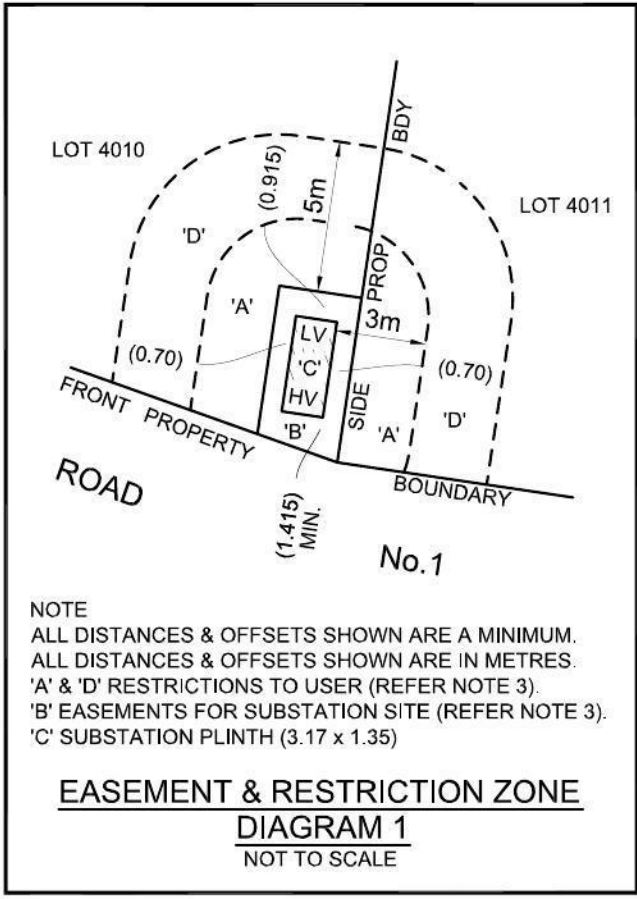
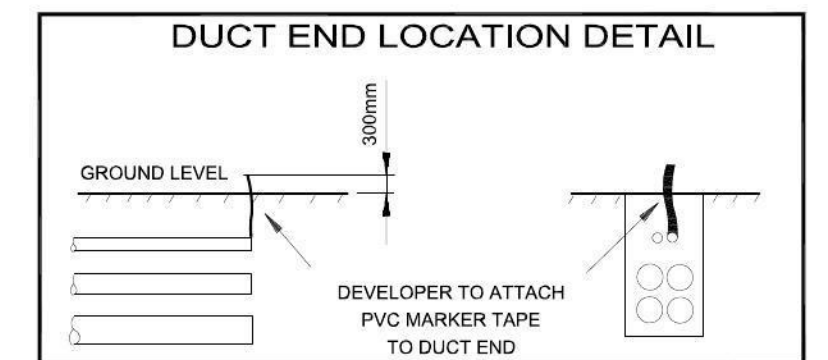
STAGE 4B
URS 13642

WARNING

LIVE ENDEAVOUR ENERGY CABLES AND OTHER SERVICES EXIST IN THIS AREA.
PLEASE CONTACT - 'DIAL BEFORE YOU DIG' ON TEL:-1100 FOR SEARCH INFORMATION A MINIMUM TWO DAYS PRIOR TO EXCAVATION

DUCT DECLARATION

I, OF
CONTACT NUMBER
HEREBY CERTIFY THAT THE CUTS SHOWN ON THIS DRAWING HAVE BEEN INSTALLED IN ACCORDANCE WITH THIS DRAWING AND ENDEAVOUR ENERGY'S MDI 0020 SECTION 9. THE DUCT DEPTHS AT EACH END HAVE BEEN CORRECTLY MARKED ON THIS DRAWING IN THE RED. THE INSTALLATION OF THE DUCTS WAS COMMENCED ON & COMPLETED ON
SIGNATURE
LAND SURVEYOR REGISTERED UNDER SURVEYING ACT 2002 OR MEMBER OF THE INSTITUTE OF ENGINEERS OF AUSTRALIA



THE NOTIFICATION OF ARRANGEMENT FOR THIS PROJECT WILL NOT BE ISSUED UNTIL THE WORKS PROPOSED UNDER URS 14218 ARE COMPLETE.

DESIGN COMPLIANCE AND INDEMNITY

This design complies with the Endeavour Energy's relevant standards as current at this time and as listed on the Endeavour Energy Accredited Service Provider's internet site. These standards include, but are not limited to:

GT&C	: General Terms and Conditions
EMS	: Environmental Management Standard
MCI	: Mains Construction Instruction
MDI	: Mains Design Instruction
PDI	: Protection Design Instruction
SDI	: Substation Design Instruction
SAD 0001	: Design Drawing Standard
MMI	: Mains Maintenance Instruction
SMI	: Substation Maintenance Instruction
LDI 0001	: Public Lighting Electrical Design Element

Additionally, where relevant, the design complies with C(b) - 1 "Guideline for Design and Maintenance of Overhead Distribution and Transmission Lines" published by ENA and other relevant Australian Standards.

ESTATE POWER DESIGN

indemnifies Endeavour Energy for any loss or damage resulting from non-compliance of the design with the above standards.

Signed (Company name)
Name BRIAN JUDE
Service Provider Number1033 Date18/06/2013

CERTIFIED BY ENDEAVOUR ENERGY

AMENDMENT A
DATE APPROVED 06/08/2013
EXAMINER'S SIGNATURE
PRINT NAME Eugene Lorenzo
THIS CERTIFICATION IS ISSUED SUBJECT TO ENDEAVOUR ENERGY'S STANDARD CERT. TERMS

EPD REFERENCE No.
23/365/ED4A

STAGE 4A
LOT 11 IN D.P. 1176163
JORDAN SPRINGS
URS 13641
DUCT, TRENCHING & EASEMENT REQUIREMENTS

A1 383252 A

SHEET No 1 OF 1 SHEETS

ESTATE POWER DESIGN PTY LIMITED
ABN 69 002 331 142
ELECTRICAL RETICULATION CONSULTANTS
142 SUNNYHOLT ROAD, BLACKTOWN 2148
TEL: (02) 9621-3433 FAX (02) 9671-7256
EMAIL: brian@estatepower.com.au

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REFERENCE DRAWING'S		WORK ORDERS		CAP / SAMP No.	URS 13641
383253	ELECTRICAL RETICULATION	GENERAL		AM PROJ. No.	
		OVERHEAD		HV SWITCHING	
		UNDERGROUND		UBD/PENGUIN REF	MAP 144 REF G14
		SUBSTATIONS		GIS MAP No	7360.12
				HV OP DIAGRAM	CRANE BROOK
				LOCAL GOV AREA	PENRITH













ORIGINAL SCALE 1:1000	DO NOT SCALE DIMENSIONS IN METRES
DRAWN	E.C.
DATE	18.06.2013
CHD	B.J.
DESIGN	B.J.

WORK COMPLETED / FIELD BOOK

CONSTRUCTED BY	DATE
WORKS COMPLETED	
SIGNATURE	DATE
INSPECTED BY	
UNDERGROUND ASSETS	
INSTALLED BY	
RECORDED BY	
CONTACT No	
SIGNATURE	DATE

ALL COLUMNS INDICATED THUS  ARE TO BE INSTALLED 1.5 METRES BEHIND REAR OF KERB & GUTTER.

LEGEND

-  PROPOSED PADMOUNT SUBSTATION
-  EXISTING PADMOUNT SUBSTATION
-  PROPOSED LV PILLAR
-  EXISTING LV PILLAR
-  PROPOSED S.L. COLUMN (REFER TO SCHEDULE)
-  EXISTING S.L. COLUMN
-  HV CABLE TRENCH
-  LV CABLE TRENCH
-  INSTALL 40mm PVC SERVICE CONDUIT
-  EXISTING UNDERGROUND CABLE
-  EXISTING DUCT LOCATIONS
-  PILLAR EARTHING LOCATIONS

SPARE DUCT REQUIREMENTS

A CONTINUOUS SPARE 125MM PVC DUCT IS TO BE INSTALLED FOR EACH VOLTAGE IN ALL TRENCHES WHERE 50 SQMM, HV. & LV. CABLES ARE INSTALLED.
(IE:- MAXIMUM 1HV. & 1 LV.)
IN AREAS WHERE ADDITIONAL DUCTS ARE REQUIRED THE SPARE DUCT IS INCLUDED IN THE SECTION SHOWN.

PERMANENT SURVEY MARKS MAY EXIST IN THIS AREA. THESE ARE TO BE LOCATED BY SURVEY PRIOR TO COMMENCEMENT OF WORK

WARNING

LIVE ENDEAVOUR ENERGY CABLES AND OTHER SERVICES EXIST IN THIS AREA.
PLEASE CONTACT - 'DIAL BEFORE YOU DIG' ON TEL -1100 FOR SEARCH INFORMATION A MINIMUM TWO DAYS PRIOR TO EXCAVATION


INSTALL 500KVA 11KV. P.M. SUBSTATION No.32738
HV. SW. GEAR - 12KV CODE 'C/C'
LV. SW. GEAR - CAT. 1 CODE 'F/FIF'
PROVIDE COMMON EARTHING (PREDICTED EARTHING REQUIREMENTS)
- FOR QUOTATION PURPOSES ONLY

INSTALL 500KVA 11KV. P.M. SUBSTATION No.32737
HV. SW. GEAR - 12KV CODE 'C/C'
LV. SW. GEAR - CAT. 1 CODE 'F/FIF'
PROVIDE COMMON EARTHING (PREDICTED EARTHING REQUIREMENTS)
- FOR QUOTATION PURPOSES ONLY

NOTES

- THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ENDEAVOUR ENERGY'S MCI 0006, MDI 0028, THE RELEVANT SDI AND THE GENERAL TERMS AND CONDITIONS FOR NEW URBAN SUBDIVISIONS SPJ 4004 & THE DUCT, EASEMENT AND TRENCH REQUIREMENTS DRAWING.
- ENDEAVOUR ENERGY CONTACT PHONE No. 131081.
- DESIGN CERTIFICATION SHALL LAPSE WHERE:-
(i) NOTICE OF INTENT HAS NOT BEEN RECEIVED WITHIN SIX (6) MONTHS OF THIS CERTIFICATION, OR
(ii) CONSTRUCTION HAS BEEN INTERRUPTED FOR MORE THAN SIX (6) MONTHS WHERE DESIGN CERTIFICATION HAS LAPSED. THE DESIGN MUST BE RESUBMITTED FOR CERTIFICATION BY THE ACCREDITED DESIGNER.
- ATTENTION - PERMANENT SURVEY MARKS MAY EXIST IN THIS AREA. THESE ARE TO BE LOCATED BY A SURVEYOR PRIOR TO THE COMMENCEMENT OF WORK.
- ATTENTION - ALL SERVICES SEARCHES MUST BE CHECKED BEFORE CONSTRUCTION.
- WARNING - LIVE ENDEAVOUR ENERGY CABLES AND OTHER SERVICES IN THIS AREA. PLEASE CONTACT - 'DIAL BEFORE YOU DIG' ON TEL-1100 FOR SEARCHES A MINIMUM TWO DAYS PRIOR TO EXCAVATION
- ATTENTION - SERVICE PROVIDER TO NOTIFY ENDEAVOUR ENERGY'S ASSET DATA CUSTOMER DEPT. DAILY WHEN CABLE WORKS IS IN PROGRESS. TELEPHONE 131 081.
- OPERATIONAL LIMITS - UNLESS APPROVED OTHERWISE, INTERRUPTIONS TO ANY CUSTOMER'S SUPPLY MUST BE AVOIDED. THE FOLLOWING ALTERNATIVES SHOULD BE CONSIDERED:
- LIVE LINEWORK.
- DESIGN ALTERNATIVES.
- LOW VOLTAGE PARALLELS.
- WORK PRACTICES / STANDARDS.
THE COST IS TO BE FUNDED BY THE CUSTOMER / DEVELOPER.
- REIMBURSEMENTS WILL BE CREDITED TO THE DEVELOPER, ONLY FOR LENGTHS AND QUANTITIES SHOWN IN THE SCOPE OF WORKS. ANY DISCREPANCIES SHOULD BE RESOLVED PRIOR TO THE CONTRACT AGREEMENT.
- HAVE ALL THE EXISTING ASSETS BEEN FIELD CHECKED AND ARE ACCURATE AT THE TIME OF DESIGN. YES / NO.
- ALL NEW LANTERNS TO BE CONTROLLED BY PHOTO ELECTRIC CELLS. STREETLIGHT COLUMNS ARE TO BE POWDER COATED IN ACCORDANCE WITH COUNCIL WRITTEN REQUIREMENTS.
- IDENTIFICATION OF CABLES VIEWED FROM FOOTPATH SIDE.
LEFT SIDE - ONE DOT
RIGHT SIDE OF CABLE - TWO DOTS
THIRD CABLE - THREE DOTS
IRRESPECTIVE OF DIRECTION

ALL WORKS TO BE CONSTRUCTED ARE TO BE COMPLETED IN ACCORDANCE WITH ENDEAVOUR ENERGY'S GENERIC ENVIRONMENTAL PLAN - EMS 0001.

ALL COLUMNS INDICATED THUS  ARE TO BE INSTALLED 1.5 METRES OFFSET FROM THE SIDE PROPERTY BOUNDARY AS SHOWN.

ALL PILLARS ARE TO BE INSTALLED 1.5m OFFSET FROM THE SIDE PROPERTY BOUNDARY UNLESS SHOWN OTHERWISE.

THE CERTIFICATION OF THIS PRODUCT IS SUPPORTED BY THE FOLLOWING KEY DOCUMENTS -

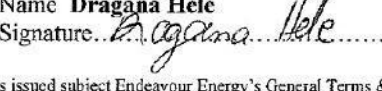
DOCUMENT NAME	NOTATION DATE
ENVIRONMENTAL IMPACT ASSESSMENT (EMS0001) - FAT0038.	18.06.13
AGREEMENT FOR ENTRY, GRANT AND CREATION OF EASEMENT - FPJ5013.	-
EQUIPMENT TO BE RETURNED TO ENDEAVOUR ENERGY - FPJ4252 (SWITCH GEAR TRANSFORMERS & BARE COPPER CONDUCTOR).	-
EQUIPMENT TO BE RETURNED TO ENDEAVOUR ENERGY - FPJ4253 (TREATED TIMBER POLES AND CONCRETE POLES).	-
TELECOMMUNICATION ASSET AGREEMENT - FPJ4184.	-
PROJECT DEFINITION.	-

THIS DRAWING SUPPLIES 70 LOTS						
CAP No.	FILE No.	LOT No.	No OF LOTS	DEVELOPER	DEVELOPER'S REF.	TEL. No.
URS 13641	2013/08458/001	4001 - 4070	70	MARYLAND DEVELOPMENTS	A. ALI	8016 6520

FUNDING ARRANGEMENTS FOR SCOPE OF WORKS

ASP LEVEL 1 ELECTRICAL WORKS				CUSTOMER	
ENDEAVOUR ENERGY SUPPLIED MATERIALS		CUSTOMER FUNDED NON-CONTESTABLE WORKS		CUSTOMER FUNDED	
2 x 500KVA 11KV TRANSFORMERS		SWITCHING, INSPECTION AND COMMISSIONING COSTS		INCLUDES BUT NOT LIMITED TO: - PEGGING OF EASEMENTS, PROPERTY BOUNDARIES AND INFRASTRUCTURE LOCATIONS. - REGISTRATION OF EASEMENTS. - PROVIDING ACCESS. - OWN SERVICE & SERVICE CONNECTION. - CONFIRM FINISHED GROUND LEVELS.	
ENDEAVOUR ENERGY FUNDED & CONSTRUCTED		CUSTOMER FUNDED - CONTESTABLE		EXISTING DUCT USAGE CHARGE	
WORKS REQUIRED PRIOR TO COMPLETION OF CUSTOMER CONTESTABLE PROJECT.	WORKS REQUIRED IN ASSOCIATION WITH CUSTOMER CONTESTABLE PROJECT.	ALL OTHER WORKS & MATERIALS INCLUDING BUT NOT LIMITED TO: - INSTALLATION & ESTABLISHMENT OF THE PM. SUBSTATIONS. - TRENCHING. - CABLE LAYING AND / OR INSTALLATIONS. - JOINTING.		NIL.	
NIL	NIL	ENDEAVOUR ENERGY FUNDED & ASP L1 CONSTRUCTED - REIMBURSED		COORDINATION SUPPLY REQUIRED DATE (TO BE CONFIRMED WITH PROJECT MANAGER) DAY: 14 MONTH: 08 YEAR: 2013	
NIL.				ASSETS TO BE RETURNED TO THE NEAREST ENDEAVOUR ENERGY DEPOT BY LEVEL 1 ASP.	
				NIL.	

APPROVAL TO CONNECT TO PUBLIC LIGHTING

Date Approved: 2/08/2013
Reviewers Name: Dragan Hele
Reviewers Signature: 
This approval is issued subject to Endeavour Energy's General Terms & Conditions for connection of Public Lighting and is specifically for drawing number: 383253 amendment A.


AUTHORISATION OF ESTIMATED VALUE OF ENDEAVOUR ENERGY FUNDED ASSETS
SIGNED: Funding Approved
PRINT NAME: Han Phan
SERVICE NUMBER: 37600
FUNDING AMOUNT \$: 41,580.00
DATE: 06/08/2013

THE NOTIFICATION OF ARRANGEMENT FOR THIS PROJECT WILL NOT BE ISSUED UNTIL THE WORKS PROPOSED UNDER URS 14218 ARE COMPLETE.

DESIGN COMPLIANCE AND INDEMNITY

This design complies with the Endeavour Energy's relevant standards as current at this time and as listed on the Endeavour Energy Accredited Service Provider's Internet site. These standards include, but are not limited to:
GT&C : General Terms and Conditions
EMS : Environmental Management Standard
MCI : Mains Construction Instruction
MDI : Mains Design Instruction
PDI : Protection Design Instruction
SDI : Substation Design Instruction
SAD 0001 : Design Drawing Standard
MMI : Mains Maintenance Instruction
SMI : Substation Maintenance Instruction
LDI 0001 : Public Lighting Electrical Design Element
Additionally, where relevant, the design complies with C10 - "Guideline for Design and Maintenance of Overhead Distribution and Transmission Lines" published by ENA and other relevant Australian Standards.

ESTATE POWER DESIGN (Company name)
Indemnifies Endeavour Energy for any loss or damage resulting from non-compliance of the design with the above standards.

Signed: 
Name: BRIAN JUDE
Service Provider Number: 1033 Date: 16 / 06 / 2013

0 10 20 40 50M

EPD REFERENCE No.

23/365/ER4A



A1 383253 A

SHEET No 1 OF 3 SHEETS

ESTATE POWER DESIGN PTY LIMITED
ABN 69 002 331 142
ELECTRICAL RETICULATION CONSULTANTS
142 SUNNYHOLT ROAD, BLACKTOWN 2148
TEL: (02) 9621-3433 FAX (02) 9671-7256
EMAIL: brian@estatepower.com.au

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REFERENCE DRAWING'S

WORK ORDERS

CAP / SAMP No. URS 13641

AM PROJ. No.

HV SWITCHING

UBD/PENGUIN REF

MAP 144 REF G14

DATE 18.06.2013




CHD B.J.

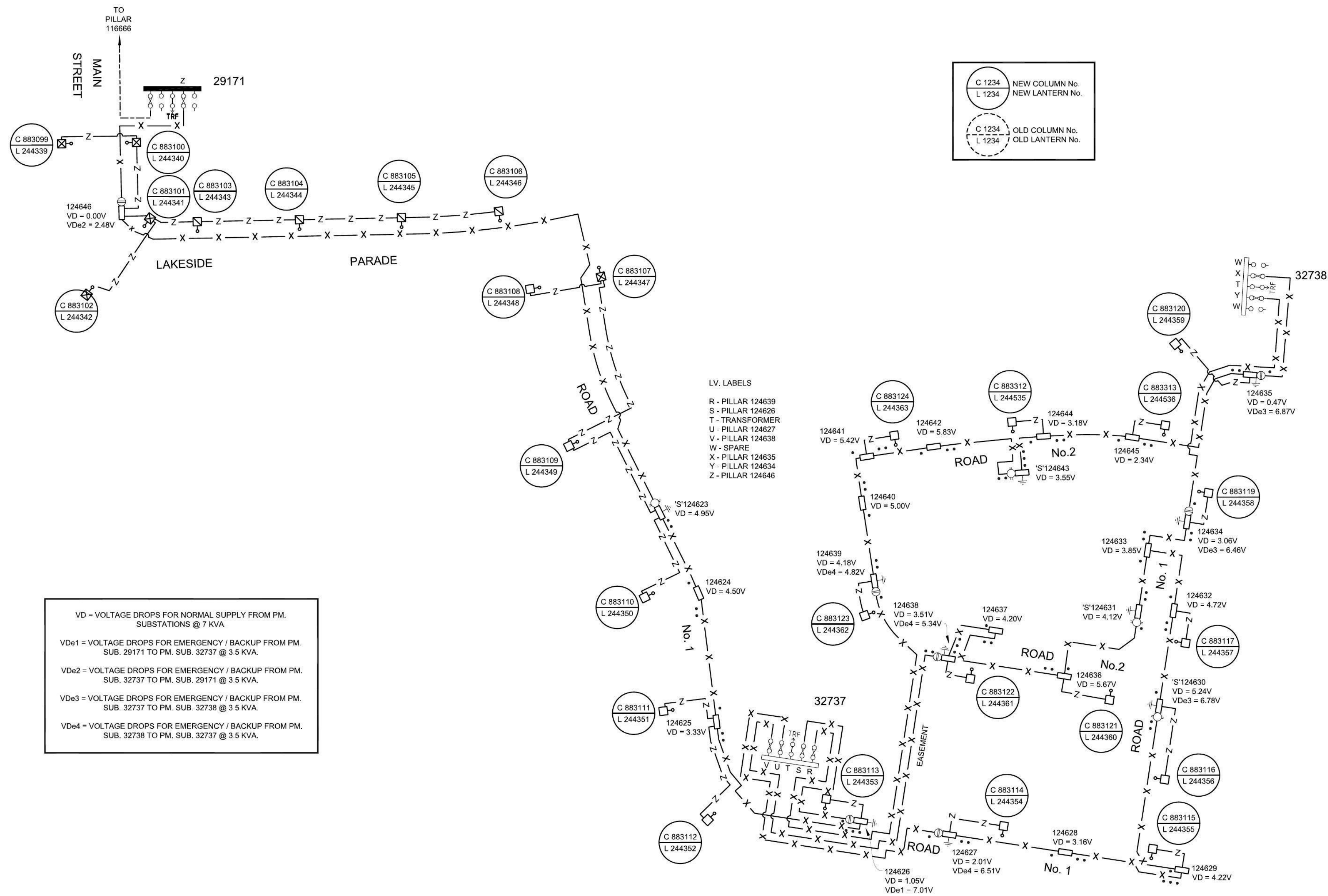
DESIGN B.J.

DO NOT SCALE DIMENSIONS IN METRES

STAGE 4A LOT 11 IN D.P. 1176163 JORDAN SPRINGS URS 13641 ELECTRICAL RETICULATION

WORK COMPLETED / FIELD BOOK	
CONSTRUCTED BY
WORKS COMPLETED
SIGNATURE DATE
INSPECTED BY
UNDERGROUND ASSETS	
INSTALLED BY
RECORDED BY
CONTACT No
SIGNATURE DATE

COLUMN AND LUMINAIRE SCHEDULE													
ITEM I.D.	LUMINAIRE	RAGBOLT	POLE		OUTREACH		UPCAST	POLE QTY	LANTERN QTY	RATE CODE	LTG CAT.	CHARGE TO	
	42W CFL SUBURBAN ECO	JS97100L	UNIVERSAL	5.5m MACARTHUR	5.5 MAC	3m MACARTHUR	IE 3.0 SOR/MAC/25	5"	18	18	938	P4	PENRITH COUNCIL
	150W MH ROADSTER	PR42G35	TYPE 3	7.0m IMPACT ABSORBING	IE / IA 7.0	3m MACARTHUR	IE 3.0 SOR/MAC/32	5"	5	5	908	V5	PENRITH COUNCIL
	150W MH ROADSTER	PR42G35	TYPE 3	8.5m IMPACT ABSORBING	IE / IA 8.5	3m MACARTHUR	IE 3.0 SOR/MAC/32	5"	4	4	908	V5	PENRITH COUNCIL



THE NOTIFICATION OF
ARRANGEMENT FOR THIS
PROJECT WILL NOT BE
ISSUED UNTIL THE
WORKS PROPOSED
UNDER URS 14218
ARE COMPLETE.

CERTIFIED BY ENDEAVOUR ENERGY





AMENDMENT: A

DATE APPROVED: 06/08/2013

EXAMINER'S SIGNATURE: Eugene Lorenzo

PRINT NAME: Eugene Lorenzo

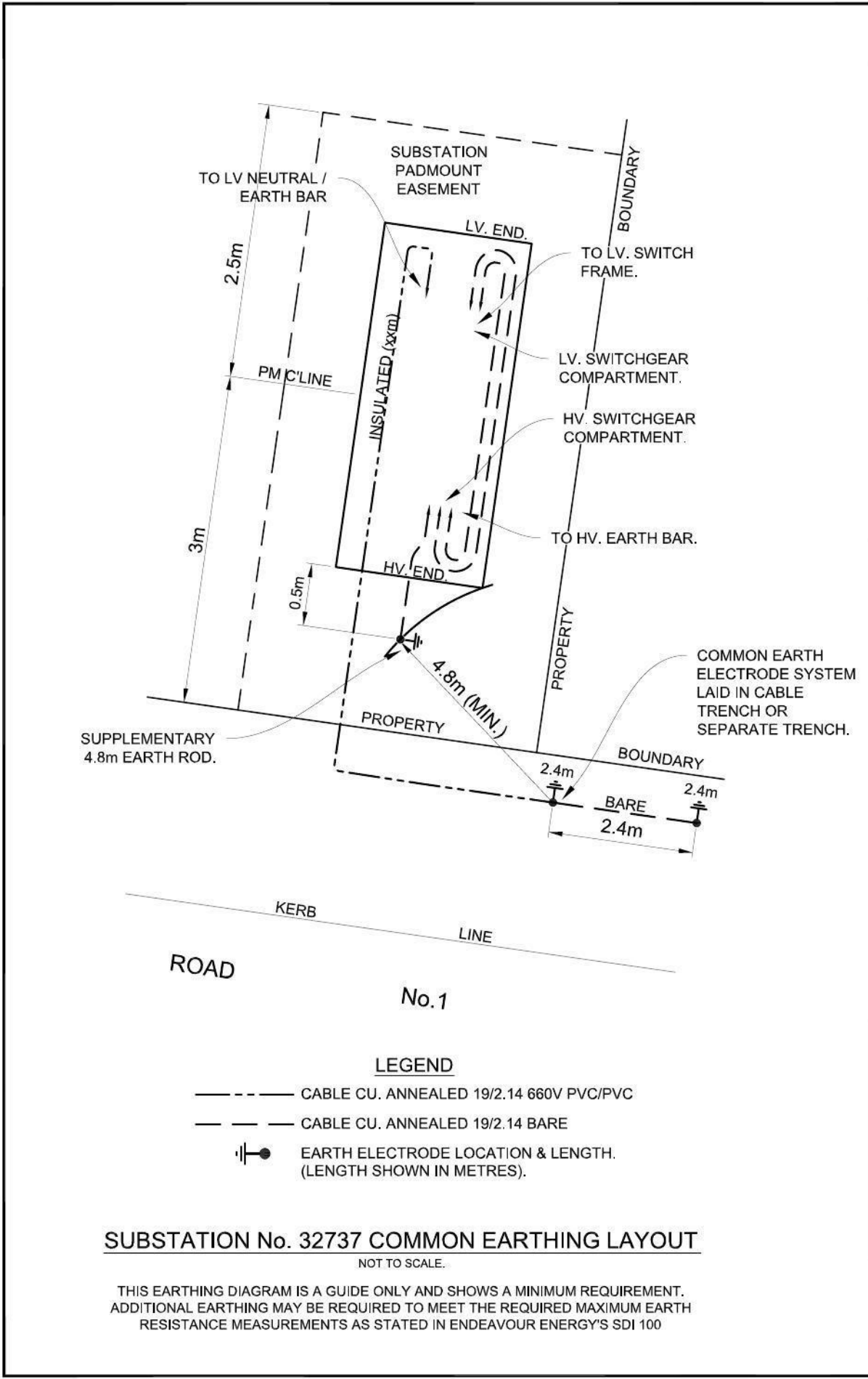
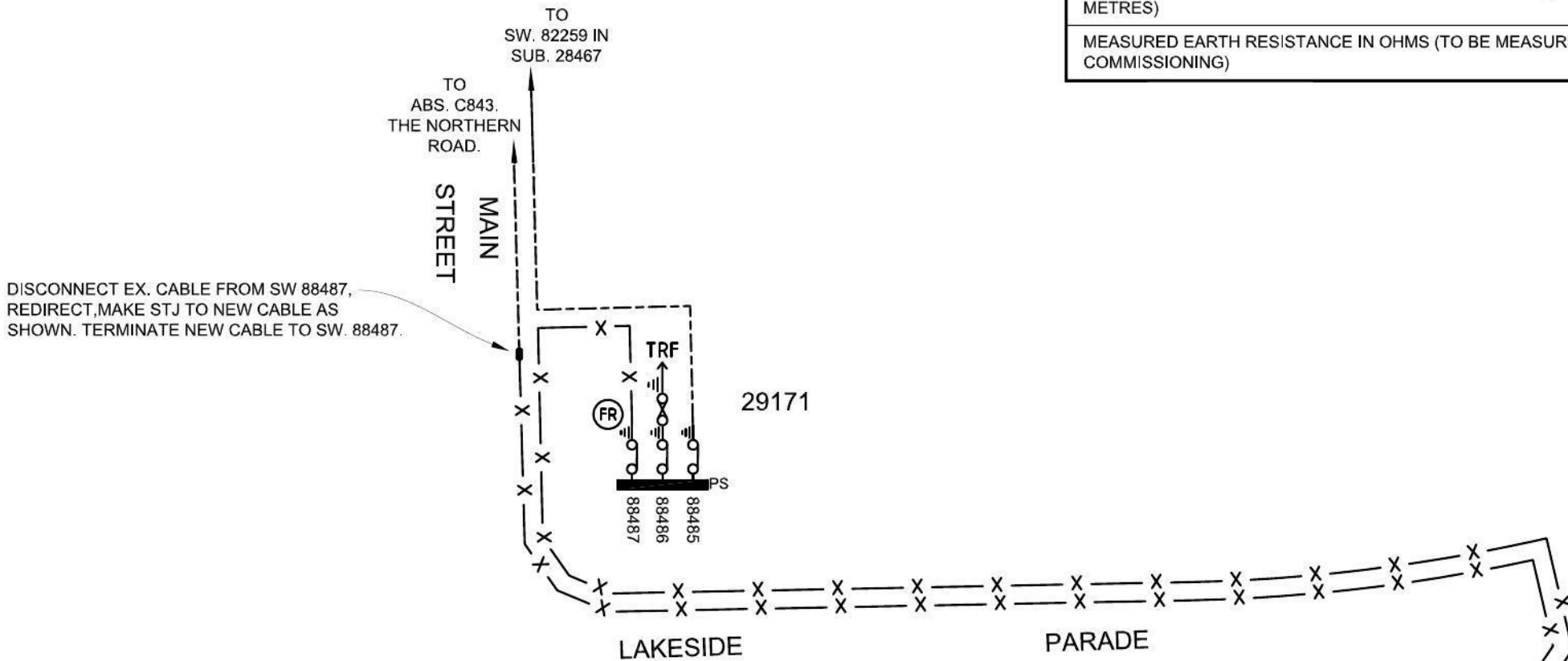
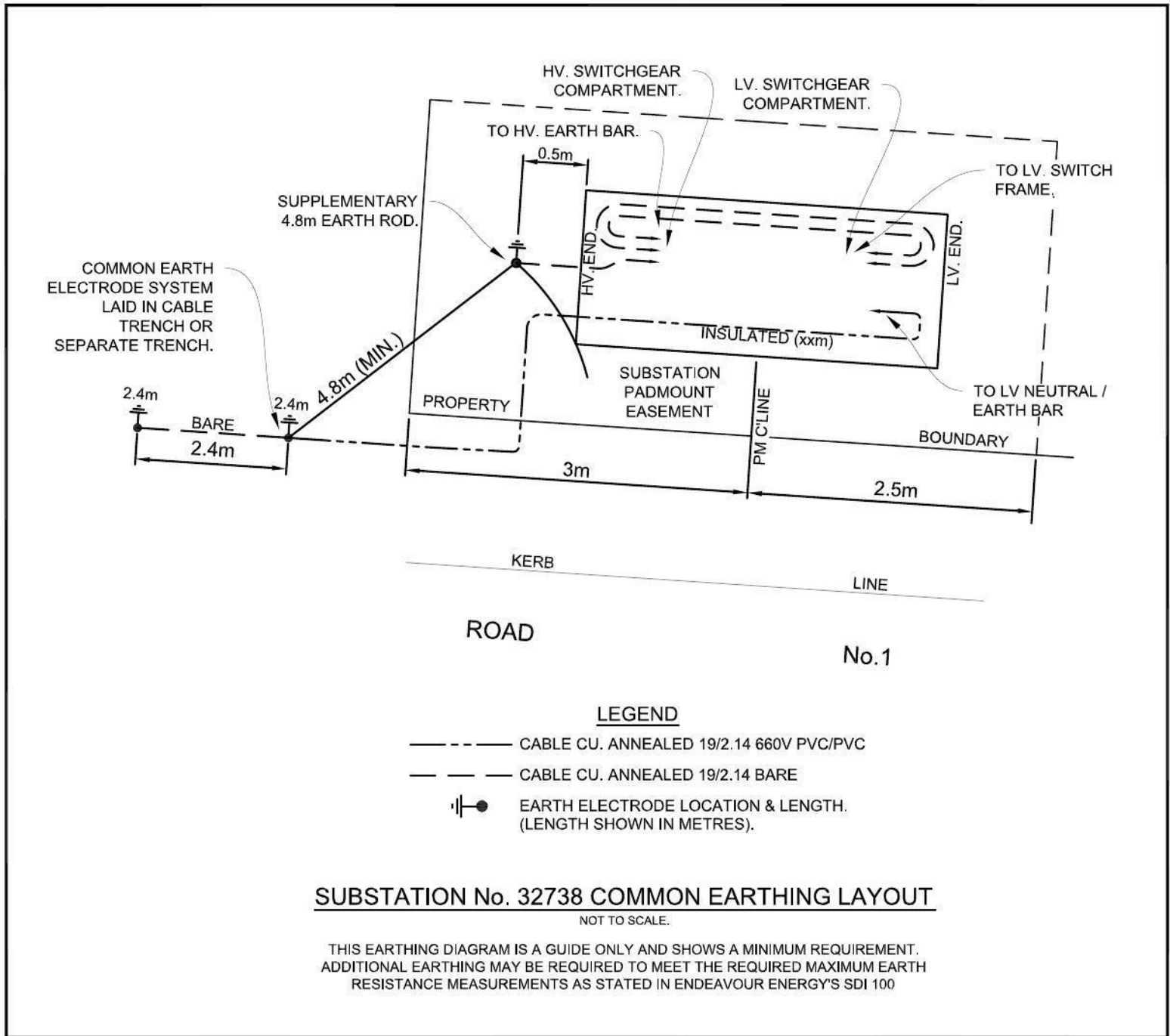
THIS CERTIFICATION IS ISSUED SUBJECT TO
ENDEAVOUR ENERGY'S STANDARD CERT. TERMS.

AMENDMENTS ORIGINAL ISSUE	A	 ESTATE POWER DESIGN PTY LIMITED ABN 69 002 331 142 ELECTRICAL RETICULATION CONSULTANTS 142 SUNNYHOLT ROAD, BLACKTOWN 2148 TEL: (02) 9621-3433 FAX (02) 9671-7256 EMAIL: brian@estatepower.com.au EPD 1.0	 THIS DRAWING AND THE COPYRIGHT THEREIN IS THE PROPERTY OF ENDEAVOUR ENERGY AND MAY NOT BE COPIED, REPRODUCED, DISTRIBUTED, LOANED OR USED WITHOUT THE ENDEAVOUR ENERGY	REFERENCE DRAWING'S 383252 DUCT, EASEMENTS & TRENCHING GENERAL OVERHEAD UNDERGROUND SUBSTATIONS LOCAL GOV AREA	WORK ORDERS CAP / SAMP No. URS 13641 AM PROJ. No. HV SWITCHING USD/PENGUIN REF MAP 144 REF G14 GIS MAP No 7360 12 HV OP DIAGRAM CRANE BROOK LOCAL GOV AREA PENRITH	 ORIGINAL SCALE 1:1000 DRAWN DATE 18.06.2013 CHD B.J.	DO NOT SCALE DIMENSIONS IN METRES DESIGN B.J.	STAGE 4A LOT 11 IN D.P. 1176163 JORDAN SPRINGS URS 13641 ELECTRICAL RETICULATION		A1	383253	A	SHEET No 2 OF 3 SHEETS

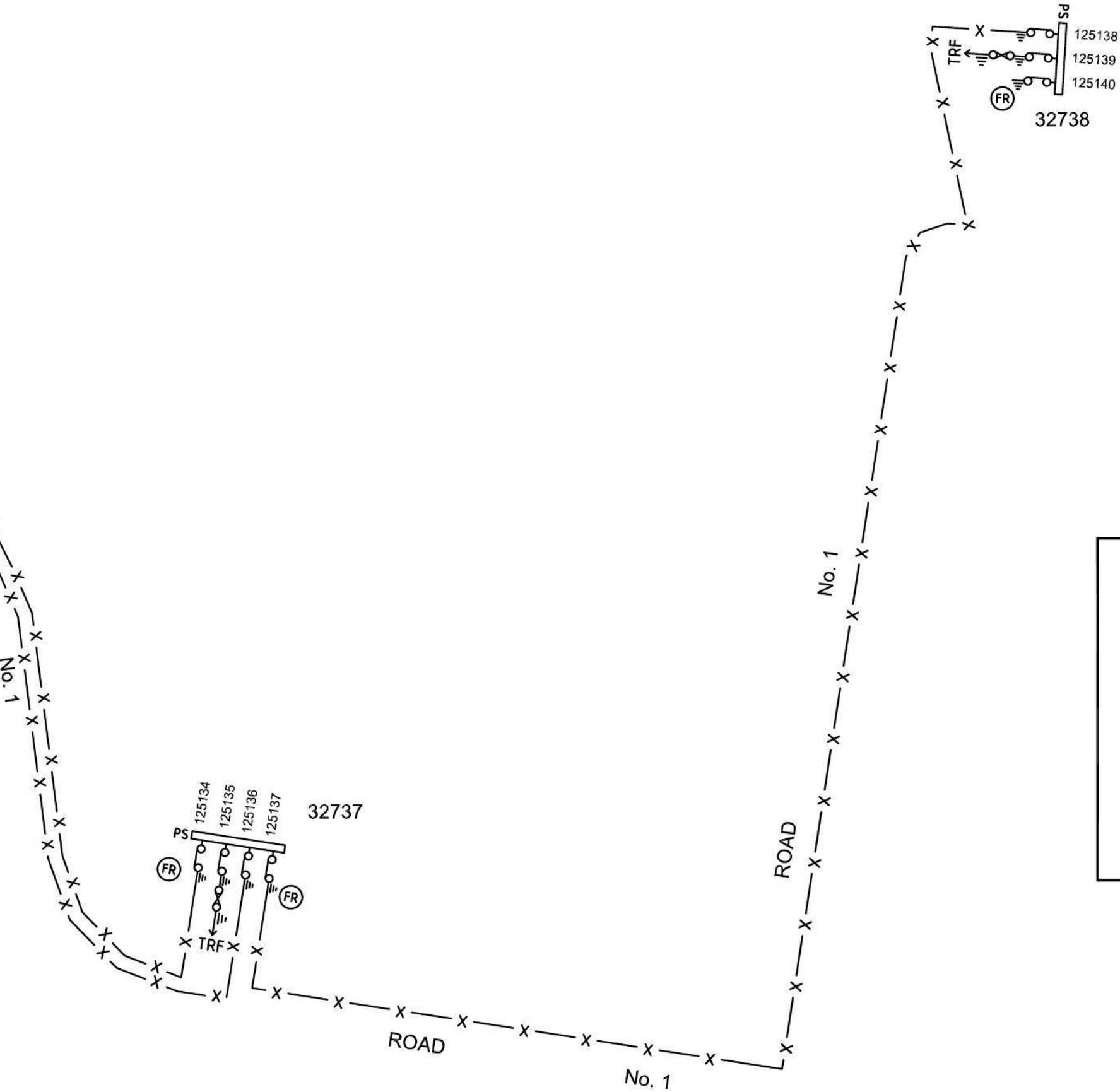
WORK COMPLETED / FIELD BOOK

CONSTRUCTED BY: _____
WORKS COMPLETED: _____
SIGNATURE: _____ DATE: _____
INSPECTED BY: _____
UNDERGROUND ASSETS
INSTALLED BY: _____
RECORDED BY: _____
CONTACT No: _____
SIGNATURE: _____ DATE: _____

EARTHING DATA TO BE CAPTURED TO GIS	
SUBSTATION NO.	32738
INSTALLATION TYPE	UNDERGROUND
EARTHING SYSTEM TYPE	COMMON
SOIL RESISTIVITY AVERAGE IN OHMS	10 OHM METRES
HV SEPARATE EARTHING GRID RESISTANCE (SEPARATE EARTHING ONLY)	N/A
SIZE/NO. OF HV ELECTRODES (SEPARATE EARTHING ONLY)	N/A
LV SEPARATE EARTHING GRID RESISTANCE (SEPARATE EARTHING ONLY)	N/A
SIZE/NO. OF LV ELECTRODES (SEPARATE EARTHING ONLY)	N/A
COMBINED EARTH RESISTANCE IN OHMS (FOR COMMON EARTHING)	1.6 OHMS
SIZE/NO. OF COMBINED ELECTRODES (COMMON EARTHING)	2 x 2.4m
SIZE/NO. OF THE SUPPLEMENTARY ELECTRODE	1 x 4.8m
BONDING CONDUCTOR SIZE IN MM2 (INSULATED/BARE)	70 SQMM CU
CONNECTION TYPE (CAD OR CRIMP)	CRIMP
AMBIENT TEMPERATURE/WEATHER CONDITION	21°C
DATE OF SOIL TEST	25 03 13
INSULATED DEPTH FROM GROUND LEVEL (IN METRES)	1M
LENGTH OF MEN CONNECTION CABLE (IN METRES)	N/A
TOTAL LENGTH OF EARTH ELECTRODE SYSTEM CABLE (INCL. INSULATED & BARE IN METRES)	20m
MEASURED EARTH RESISTANCE IN OHMS (TO BE MEASURED BY L1 ASP ON COMMISSIONING)	-



EARTHING DATA TO BE CAPTURED TO GIS	
SUBSTATION NO.	32737
INSTALLATION TYPE	UNDERGROUND
EARTHING SYSTEM TYPE	COMMON
SOIL RESISTIVITY AVERAGE IN OHMS	10 OHM METRES
HV SEPARATE EARTHING GRID RESISTANCE (SEPARATE EARTHING ONLY)	N/A
SIZE/NO. OF HV ELECTRODES (SEPARATE EARTHING ONLY)	N/A
LV SEPARATE EARTHING GRID RESISTANCE (SEPARATE EARTHING ONLY)	N/A
SIZE/NO. OF LV ELECTRODES (SEPARATE EARTHING ONLY)	N/A
COMBINED EARTH RESISTANCE IN OHMS (FOR COMMON EARTHING)	1.6 OHMS
SIZE/NO. OF COMBINED ELECTRODES (COMMON EARTHING)	2 x 2.4m
SIZE/NO. OF THE SUPPLEMENTARY ELECTRODE	1 x 4.8m
BONDING CONDUCTOR SIZE IN MM2 (INSULATED/BARE)	70 SQMM CU
CONNECTION TYPE (CAD OR CRIMP)	CRIMP
AMBIENT TEMPERATURE/WEATHER CONDITION	21°C
DATE OF SOIL TEST	25 03 13
INSULATED DEPTH FROM GROUND LEVEL (IN METRES)	1M
LENGTH OF MEN CONNECTION CABLE (IN METRES)	N/A
TOTAL LENGTH OF EARTH ELECTRODE SYSTEM CABLE (INCL. INSULATED & BARE IN METRES)	20m
MEASURED EARTH RESISTANCE IN OHMS (TO BE MEASURED BY L1 ASP ON COMMISSIONING)	-



FINAL HV. CIRCUIT

--- LAY 240 SQmm 3 CORE 11KV AL XLPE/PVC HDPE CABLE -
RL. 1195m CL. 1225m
--- EXISTING UG. CABLE

THE NOTIFICATION OF
ARRANGEMENT FOR THIS
PROJECT WILL NOT BE
ISSUED UNTIL THE
WORKS PROPOSED
UNDER URS 14218
ARE COMPLETE.

CERTIFIED BY ENDEAVOUR ENERGY
AMENDMENT: A
DATE APPROVED: 06/08/2013
EXAMINER'S SIGNATURE: Eugene Lorenzo
PRINT NAME: Eugene Lorenzo
THIS CERTIFICATION IS ISSUED SUBJECT TO
ENDEAVOUR ENERGY'S STANDARD CERT. TERMS.

EPD REFERENCE No.
23/365/ER4A



A1 383253 A

SHEET No 3 OF 3 SHEETS

ESTATE POWER DESIGN PTY LIMITED
ABN 69 002 331 142
ELECTRICAL RETICULATION CONSULTANTS
142 SUNNYHOLT ROAD, BLACKTOWN 2148
TEL: (02) 9621-3433 FAX (02) 9671-7256
EMAIL: brian@estatepower.com.au

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REFERENCE DRAWING'S	
383252	DUCT, EASEMENTS & TRENCHING

WORK ORDERS	
GENERAL	
OVERHEAD	
UNDERGROUND	
SUBSTATIONS	

CAP / SAMP No.	URS 13641
AM PROJ. No.	
HV SWITCHING	
UBD/PENGUIN REF	MAP 144 REF G14
GIS MAP No	7360.12
HV OP DIAGRAM	CRANE BROOK
LOCAL GOV AREA	PENRITH

ORIGINAL SCALE	1:1000
DRAWN	E.C.
DATE	18.06.2013
CHD	B.J.

DO NOT SCALE	
DIMENSIONS IN METRES	
DESIGN	B.J.

STAGE 4A
LOT 11 IN D.P. 1176163
JORDAN SPRINGS
URS 13641
ELECTRICAL RETICULATION


WORK COMPLETED / FIELD BOOK

CONSTRUCTED BY
WORKS COMPLETED
SIGNATURE DATE
INSPECTED BY

UNDERGROUND ASSETS















INSTALLED BY
RECORDED BY
CONTACT No
SIGNATURE DATE

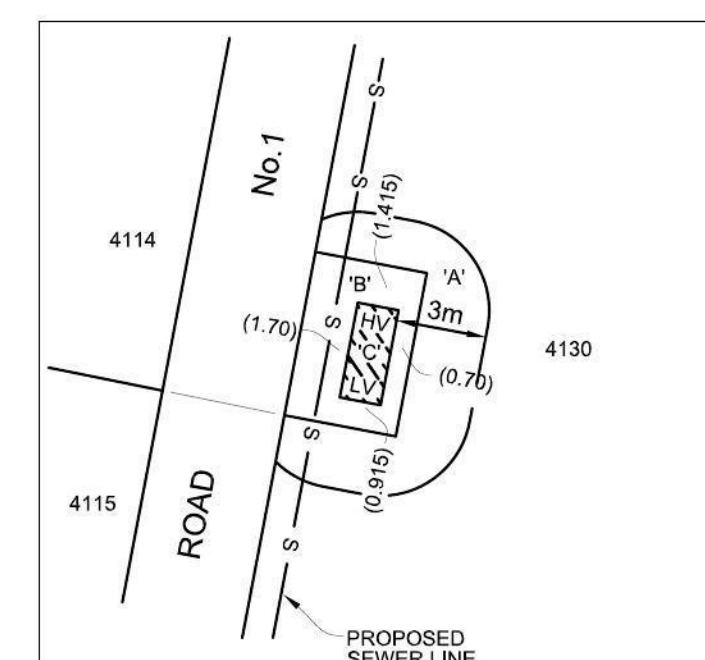
HV TRENCH LENGTH 215 M
LV TRENCH LENGTH 550 M
TOTAL TRENCH LENGTH 765 M

ALL COLUMNS INDICATED THUS  ARE TO BE INSTALLED 1.5 METRES OFFSET FROM THE SIDE PROPERTY BOUNDARY OR DRIVEWAY AS SHOWN.

ALL PILLARS ARE TO BE INSTALLED 1.5m OFFSET FROM THE SIDE PROPERTY BOUNDARY UNLESS SHOWN OTHERWISE.

LEGEND

-  PROPOSED PADMOUNT SUBSTATION
 EXISTING PADMOUNT SUBSTATION
 PROPOSED LV PILLAR
 EXISTING LV PILLAR
 PROPOSED S.L. COLUMN (REFER TO SCHEDULE)
 EXISTING S.L. COLUMN
 HV CABLE TRENCH
 LV CABLE TRENCH
 EXISTING UNDERGROUND CABLE
 PROPOSED OVERHEAD MAINS
 PROPOSED DUCT LOCATIONS
 EXISTING DUCT LOCATIONS
 NEW POLE
 DUCT CONFIGURATION - REFER MCI 0006 SECTION 4



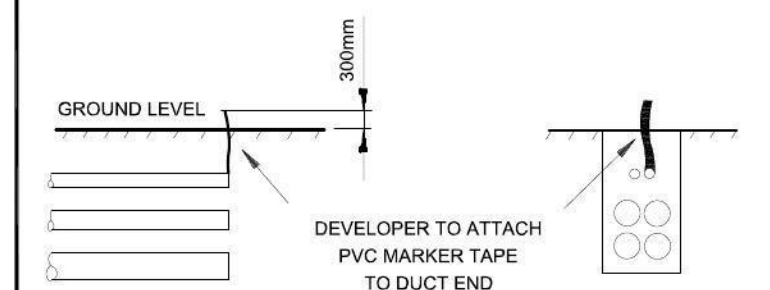
EASEMENT AND RESTRICTION ZONE DIAGRAM

NOT TO SCALE

DUCT DECLARATION

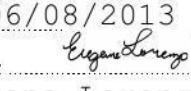
CONTACT NUMBER
HEREBY CERTIFY THAT THE CUTS SHOWN ON THIS DRAWING HAVE BEEN INSTALLED IN ACCORDANCE WITH THIS DRAWING AND ENDEAVOUR ENERGY'S MDI 0020 SECTION 9. THE DUCT DEPTHS AT EACH END HAVE BEEN CORRECTLY MARKED ON THIS DRAWING IN THE RED. THE INSTALLATION OF THE DUCTS WAS
COMMENCED ON
& COMPLETED ON
SIGNATURE
LAND SURVEYOR REGISTERED UNDER SURVEYING ACT 2002 OR MEMBER OF THE INSTITUTE OF ENGINEERS OF AUSTRALIA

DUCT END LOCATION DETAIL



THE NOTIFICATION OF ARRANGEMENT FOR THIS PROJECT WILL NOT BE ISSUED UNTIL THE WORKS PROPOSED UNDER URS 14218 ARE COMPLETE.


THIS PROJECT IS TO BE CONSTRUCTED IN CONJUNCTION WITH URS 13641 DRG 383253

CERTIFIED BY ENDEAVOUR ENERGY
AMENDMENT
DATE APPROVED : 06/08/2013
EXAMINER'S SIGNATURE : 
PRINT NAME : Eugene Lorenzo
THIS CERTIFICATION IS ISSUED SUBJECT TO ENDEAVOUR ENERGY'S STANDARD CERT. TERMS.

DESIGN COMPLIANCE AND INDEMNITY

This design complies with the Endeavour Energy's relevant standards as current at this time and as listed on the Endeavour Energy Accredited Service Provider's Internet site. These standards include, but are not limited to:
GT&C : General Terms and Conditions
EMS : Environmental Management Standard
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SDI : Substation Design Instruction
SAD 0001 : Design Drawing Standard
MMI : Mains Maintenance Instruction
SMI : Substation Maintenance Instruction
LDI 0001 : Public Lighting Electrical Design Element

Additionally, where relevant, the design complies with C(b) - 1 "Guideline for Design and Maintenance of Overhead Distribution and Transmission Lines" published by ENA and other relevant Australian Standards.

ESTATE POWER DESIGN (Company name)
Indemnifies Endeavour Energy for any loss or damage resulting from non-compliance of the design with the above standards.
Signed : 
Name : BRIAN JUDE
Service Provider Number : 1033 Date : 29 / 06 / 2013

0 20 40 50M
10 30 50M

EPD REFERENCE No.
23/365/ED4B

LOT 3999 - ROAD No.3
JORDAN SPRINGS
URS 13642
DUCT, EASEMENT & TRENCH REQUIREMENTS
STAGE 4B



A1 383626 A
SHEET No 1 OF 1 SHEETS

ESTATE POWER DESIGN PTY LIMITED
ABN 69 002 331 142
ELECTRICAL RETICULATION CONSULTANTS
142 SUNNYHOLT ROAD, BLACKTOWN 2148
TEL: (02) 9621-3433 FAX (02) 9671-7256
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TEMPLATE VERSION No. 3.1
EPD 1.0

REFERENCE DRAWING'S		WORK ORDERS	
383627	ELECTRICAL RETICULATION	GENERAL	
		OVERHEAD	
		UNDERGROUND	
		SUBSTATIONS	

CAP / SAMP No.	URS 13642
AM PROJ. No.	
HV SWITCHING	
UBD/PENGUIN REF	MAP 144 REF D13
GIS MAP No	7360.12
HV OP DIAGRAM	CRANE BROOK
LOCAL GOV AREA	PENRITH

ORIGINAL SCALE	1:1000
DRAWN	M.V.
DATE	26.07.13
CHD	B.J.

DO NOT SCALE	DIMENSIONS IN METRES
DESIGN	BJ

ORIGIN OF MGA BASED SITE CO-ORDINATES FROM PM 147113 AND PLANE DISTANCES HAVE BEEN USED. CO-ORDINATES FOR PM 147113 WERE DEDUCED BY WHELAN'S FROM SURROUNDING SSM & PM'S ON PUBLIC RECORD. CO-ORDINATES FOR PM 147113 HAVE BEEN ADOPTED AS 292202.160E 6266005.820N

Issue	Amendment	Date
-	-	-

	1.0m - 1.250m
	1.25m - 1.5m
	1.5m - 1.75m
	1.75m - 2.0m
	2.0m - 2.5m

Developer

Prepared by

CAD REF: D646-V4-010.dwg
DATE OF PLAN: 20-8-2013

CCAD: D646-STAGE4-STRIPPING
CCAD: D646-STG4-WORKASEXECUTED

Project

Jordan Springs
Western Precinct

Drawing Title

Plan of
Lot Fill within Stage 4A
LOTS 4071-4118
Jordan Springs



Scale 1:750 SHEET 1 OF 1

Drawn LAS

Checked JMCW

Job No D646

Drawing Number D646-V4-010 View: V4B

Project Web DCR No. -

Issue -



	NO FILL OR IN CUT
	0 - 250mm
	250mm - 500mm
	500mm - 750mm
	750mm - 1.0m