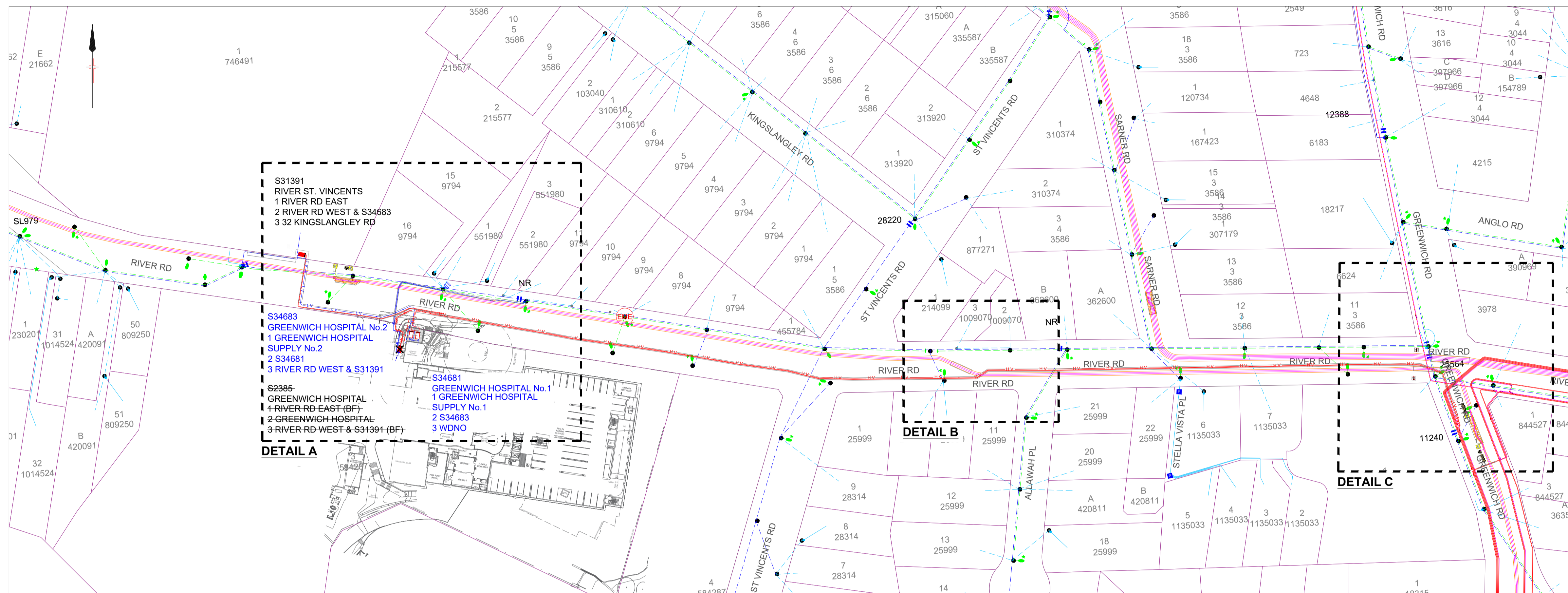
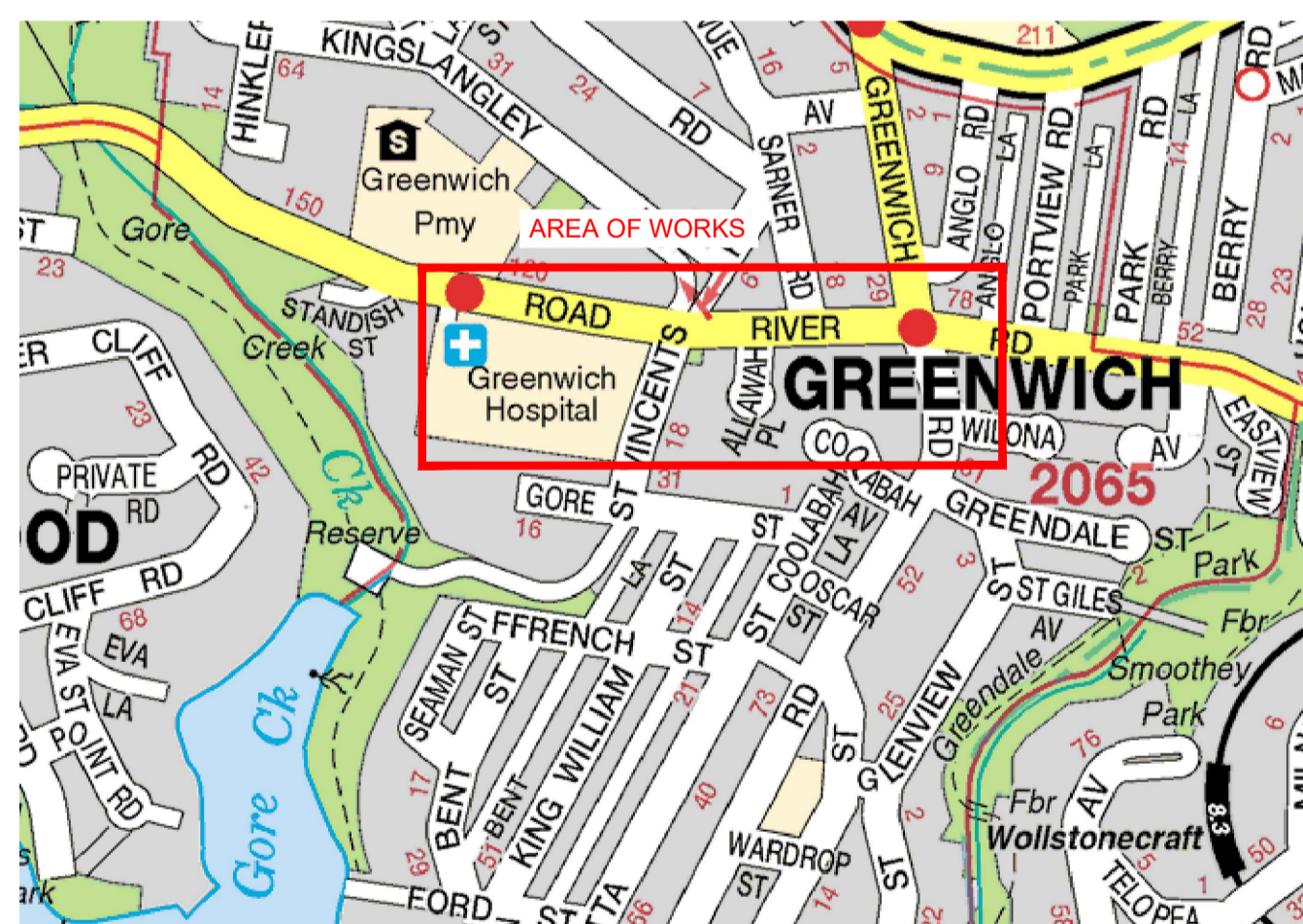
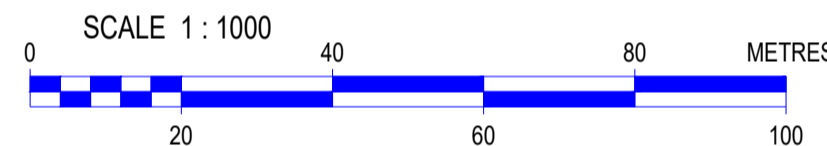


CHECK FOR OTHER SERVICES BEFORE BORING OR EXCAVATING



SITE PLAN



GEOGRAPHICAL LOCATION

NOT TO SCALE
UBD MAP: 215-K7

NOTES:

- ALL WORKS TO BE IN ACCORDANCE WITH LATEST AUSGRID NETWORK STANDARDS & AUSGRID STANDARD DRAWINGS.
- CLAIMS FOR VARIATIONS TO THE COST OF NON-CONTESTABLE WORKS, INCLUDING ROCK EXCAVATION, WILL NOT BE ACCEPTED UNLESS VERIFIED ON SITE BY AUSGRID WHILE THE WORKS ARE IN PROGRESS.
- THE ASP/1 IS RESPONSIBLE FOR UNDERTAKING SATISFACTORY CONSULTATION WITH ALL LOCAL CUSTOMERS WHO MAY POTENTIALLY BE AFFECTED BY THE CONSTRUCTION WORKS INCLUDING ALL ALTERATIONS TO SERVICE MAINS.
- THE ASP/1 MUST MINIMISE THE IMPACT OF THE WORKS ON THE ELECTRICITY SUPPLY TO CUSTOMERS AND INTERRUPTIONS TO SUPPLY MUST BE AVOIDED WHEREVER POSSIBLE. AT LEAST FOUR (4) CLEAR BUSINESS DAYS NOTICE MUST BE PROVIDED TO ALL AFFECTED CUSTOMERS PRIOR TO ANY PLANNED INTERRUPTIONS TO THE ELECTRICITY SUPPLY. NOTICE MUST BE IN WRITING IN ACCORDANCE WITH CLAUSE 90 OF THE NATIONAL ENERGY RETAIL RULES.
- SPECIFIC PRIOR APPROVAL MUST BE SOUGHT FROM AUSGRID FOR ANY PLANNED ELECTRICITY SUPPLY INTERRUPTIONS WHERE THE PLANNED INTERRUPTION WILL EXCEED ONE (1) HOUR IN DURATION OR THE DURATION WILL BE LESS THAN ONE HOUR, BUT A SUITABLE TIME FOR THE INTERRUPTION CANNOT BE MUTUALLY AGREED TO WITH THE AFFECTED CUSTOMER(S).
- THE ASP/1 IS TO MAINTAIN ADEQUATE PUBLIC LIGHTING LEVELS FOR THE DURATION OF THE WORKS. IF NECESSARY, THE ASP/1 IS TO ARRANGE FOR SUITABLE TEMPORARY STREET LIGHTING TO BE PROVIDED UNTIL PERMANENT LIGHTING IS RE-ESTABLISHED.
- THE ASP/1 IS REQUIRED TO COMPLY WITH THE CORRECT PROCEDURE(S) FOR WORKING WITH AND/OR NEAR ASBESTOS MATERIAL (REFER TO AUSGRID NUS 211 - WORKING WITH ASBESTOS PRODUCTS).
- FOR IDENTIFICATION AND JOINTING PURPOSES, ALL CABLE ENDS SHALL BE LABELLED AT THE TERMINATIONS AND IN JOINT BAYS DURING CABLE INSTALLATION. THE CABLES MUST BE LABELLED AS PER THE CERTIFIED DESIGN DRAWING.
- ALL FOOTWAYS, ROADWAYS AND NATURE STRIPS TO BE REINSTALLED IN ACCORDANCE WITH LOCAL COUNCIL REQUIREMENTS AND NS130.
- BACKFILL MATERIAL TO BE INSTALLED IN ACCORDANCE WITH NS130.
- UNDERGROUND SERVICES CHECK MUST BE CARRIED OUT PRIOR TO EXCAVATION.
- PROVIDE PEDESTRIAN AND VEHICLE ACCESS AS PER COUNCIL REQUIREMENTS FOR THE DURATION OF CONSTRUCTION.
- ASP/1 TO ADHERE TO REQUIRED CONDITIONS BY ALL 3rd PARTY ASSETS OWNERS.
- THIS INFORMATION INCLUDES DATA FROM THE NSW DIGITAL CADASTRAL DATABASE BY LAND & PROPERTY INFORMATION ©2016. USED UNDER CREATIVE COMMONS LICENSE VERSION 4.0
- ALL REDUNDANT EQUIPMENT TO BE REMOVED FROM SERVICE AND RETURNED TO AUSGRID'S NEAREST DEPOT.
- QUANTITY & DIMENSIONS ARE BASED ON DESIGN INFORMATION & SITE CONDITIONS AT THE TIME OF THE DESIGN. AS QUANTITIES & DIMENSIONS ARE SUBJECT TO CHANGE, THE BUILDER OF THIS PROJECT MUST CHECK ALL QUANTITIES & DIMENSIONS ON SITE PRIOR TO TENDERING & CONSTRUCTION.

WARNING

- CHECK FOR OTHER SERVICES BEFORE BORING OR EXCAVATING - CONTACT BEFORE YOU DIG AUSTRALIA (BYDA) AT www.byda.com.au
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- BYDA INFORMATION MUST BE CURRENT, AS INDICATED BY THE VALIDITY DATES ON THE BEFORE YOU DIG AUSTRALIA INFORMATION, AT THE TIME OF CONSTRUCTION.
- IF THE LAND BASE USED IN THE DESIGN IS SUPPLIED BY AUSGRID: "THIS INFORMATION INCLUDES DATA FROM THE NSW DIGITAL CADASTRAL DATABASE BY LAND & PROPERTY INFORMATION ©2016. USED UNDER CREATIVE COMMONS LICENCE VERSION 4.0.
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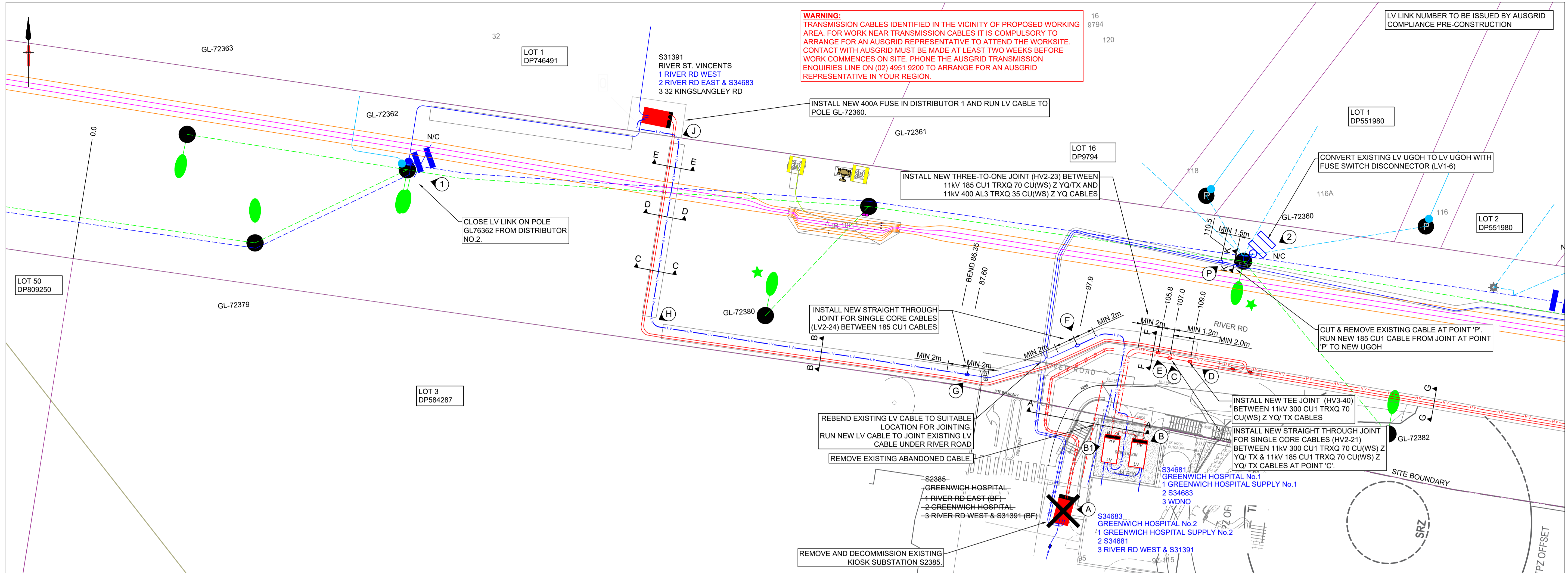
ASP LEVEL 2 WORK

ALL LEVEL 2 ASP WORK DEPICTED ON THIS DRAWING IS SHOWN FOR INFORMATION PURPOSES ONLY AND DOES NOT FORM PART OF THE CERTIFIED DESIGN.

LEGEND

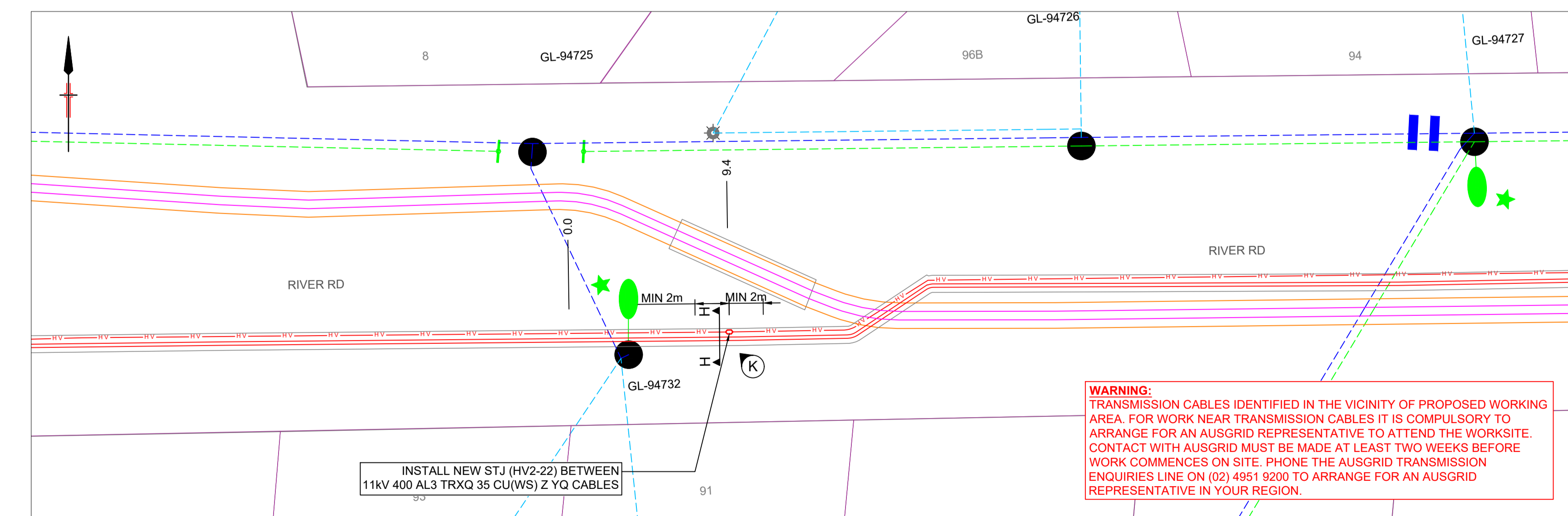
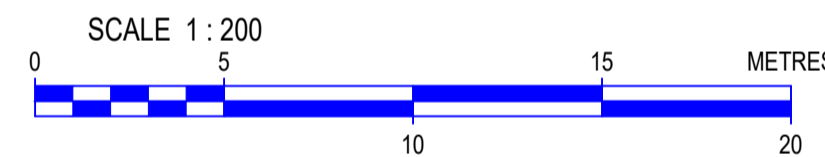
ASSET REMOVED		PROPOSED		EXISTING	
Pole - to be removed		Pole		USL	
Column - to be removed		SL Standard		ABS	
SL - to be removed		Pillar Standard		IDT	
OH Mains - to be removed		LV Pillar		Kiosk Sub	
UG Mains - to be removed		LV Link Pillar		Chamber Sub	
USL - to be removed		Streetlight		Pole Sub	
Pole Sub - to be removed		Streetlight - PEC		Two Pole Sub	
Joint - to be removed		Streetlight - Replace			
				UGOH	
				Pot End	
				Sealed End	
				Conduit	
				OH Lines	
				UG Cables	
				OH Lines	
				UG Cables	

CAD DRAWING AMENDMENTS	20160817	1	2	3	4	5	6	7	8	9	10	11	12	C		
<p>ASSOCIATED DRAWINGS</p>													<p>CERTIFICATION NUMBER 2440483/20230829</p>	<p>DESIGNED BY KOSMA TZANNES AUTH NO. 3342/07 SUBMIT DATE 29/08/2023 LGA LANE COVE MUNICIPAL MAP REF. 215K7 AUSGRID REF. GL64 PRJ/TRAK No. XCH015546</p>	<p>DECOM. EXISTING SUB S.2385 AND ESTABLISH NEW 2 x 1000kVA L TYPE KIOSK SUBSTATION AT 97-115 RIVER RD GREENWICH NSW 2065</p>	
<p>ASP REF. 210031</p>													<p>SIZE A1</p>	<p>AUSGRID PROJECT No. AN-24262</p>	<p>SHEETS 1 of 8</p>	<p>AMD 0</p>



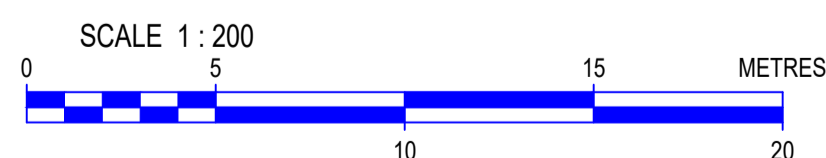
WARNING:
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SITE PLAN DETAIL A
SCALE 1:200



WARNING:
TRANSMISSION CABLES IDENTIFIED IN THE VICINITY OF PROPOSED WORKING AREA. FOR WORK NEAR TRANSMISSION CABLES IT IS COMPULSORY TO ARRANGE FOR AN AUSGRID REPRESENTATIVE TO ATTEND THE WORKSITE. CONTACT WITH AUSGRID MUST BE MADE AT LEAST TWO WEEKS BEFORE WORK COMMENCES ON SITE. PHONE THE AUSGRID TRANSMISSION ENQUIRIES LINE ON (02) 4951 9200 TO ARRANGE FOR AN AUSGRID REPRESENTATIVE IN YOUR REGION.

SITE PLAN DETAIL B
SCALE 1:200



WARNING

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ASP LEVEL 2 WORK

ALL LEVEL 2 ASP WORK DEPICTED ON THIS DRAWING IS SHOWN FOR INFORMATION PURPOSES ONLY AND DOES NOT FORM PART OF THE CERTIFIED DESIGN.

NOTE:

- LV LINK NUMBER TO BE ISSUED BY AUSGRID COMPLIANCE PRE-CONSTRUCTION

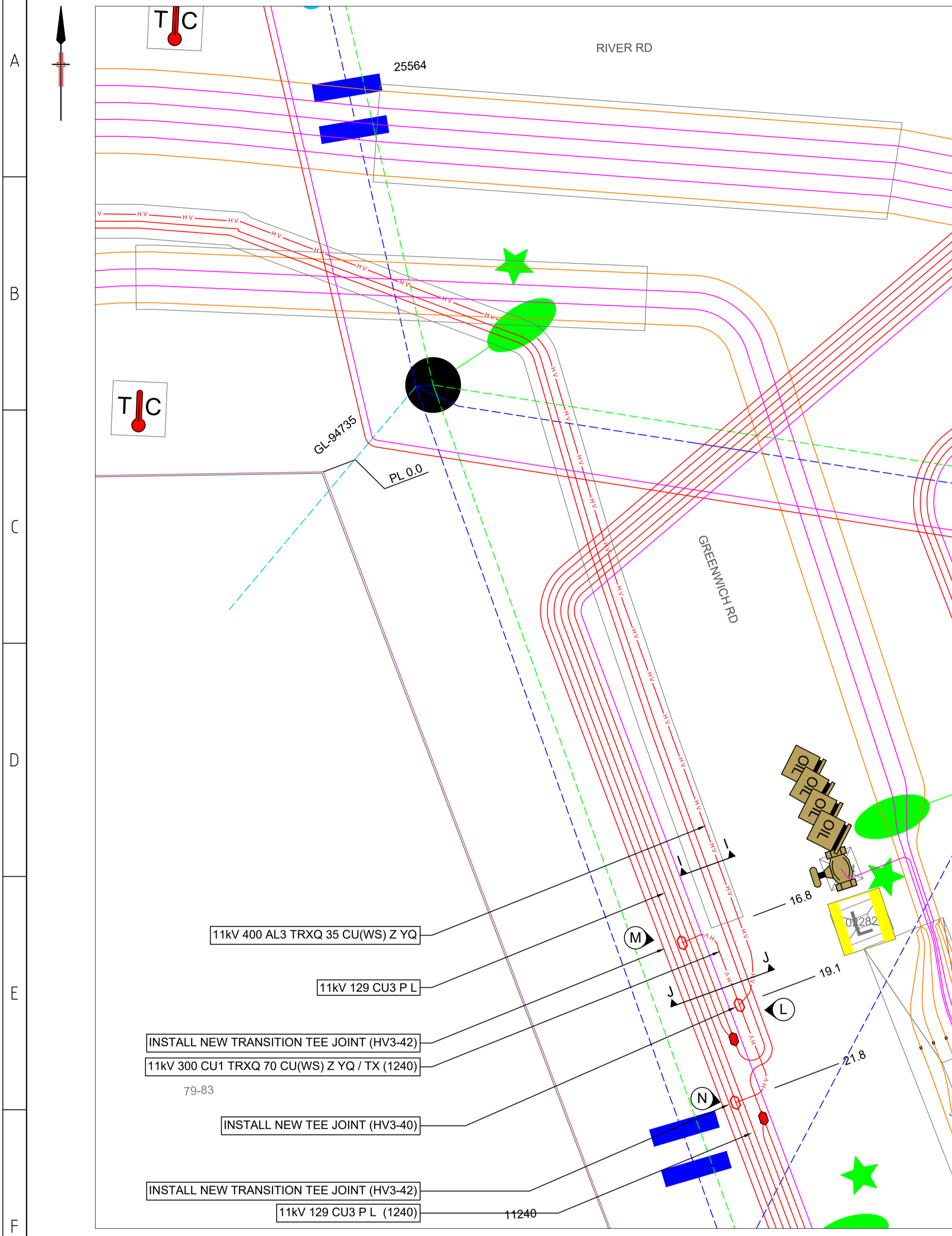
LEGEND

ASSET REMOVED		PROPOSED		EXISTING	
Pole - to be removed		Pole		USL	
Column - to be removed		SL Standard		ABS	
SL - to be removed		Pillar Standard		IDT	
OH Mains - to be removed		LV Pillar		Kiosk Sub	
UG Mains - to be removed		LV Link Pillar		Chamber Sub	
USL - to be removed		Streetlight		Pole Sub	
Pole Sub - to be removed		Streetlight - PEC		Two Pole Sub	
Joint - to be removed		Streetlight - Replace			
		PROPOSED UGOH		EXISTING UGOH	
		PROPOSED Joint		EXISTING Joint	
		PROPOSED Conduit		EXISTING Conduit	
		PROPOSED OH Lines		EXISTING OH Lines	
		PROPOSED UG Cables		EXISTING UG Cables	

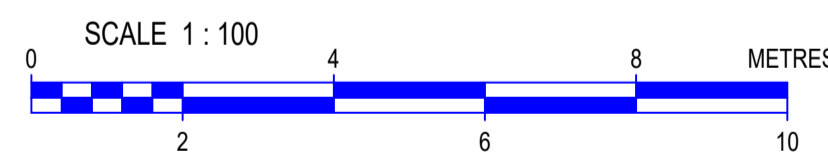
CHECK FOR OTHER SERVICES BEFORE BORING OR EXCAVATING

CAD DRAWING AMENDMENTS	20160817	1	2	3	4	5	6	7	8	9	10	11	12	AMD	
															1
<p>ASSOCIATED DRAWINGS</p> <p>CERTIFICATION NUMBER 2440483/20230829A1</p>														<p>DESIGNED BY: KOSMA TZANNES</p> <p>AUTH NO.: 3342/07</p> <p>SUBMIT DATE: 29/08/2023</p> <p>LANE COVE MUNICIPAL</p> <p>MAP REF.: 215K7</p> <p>AUSGRID REF.: GL64</p> <p>PRJ/TRAK No.: XCH015546</p>	<p>DECOM. EXISTING SUB S.2385 AND ESTABLISH NEW 2 x 1000kVA L TYPE KIOSK SUBSTATION AT 97-115 RIVER RD GREENWICH NSW 2065</p> <p>AUSGRID PROJECT No. AN-24262</p> <p>SHEETS 2 of 8</p>

CHECK FOR OTHER SERVICES BEFORE BORING OR EXCAVATING



SITE PLAN DETAIL C



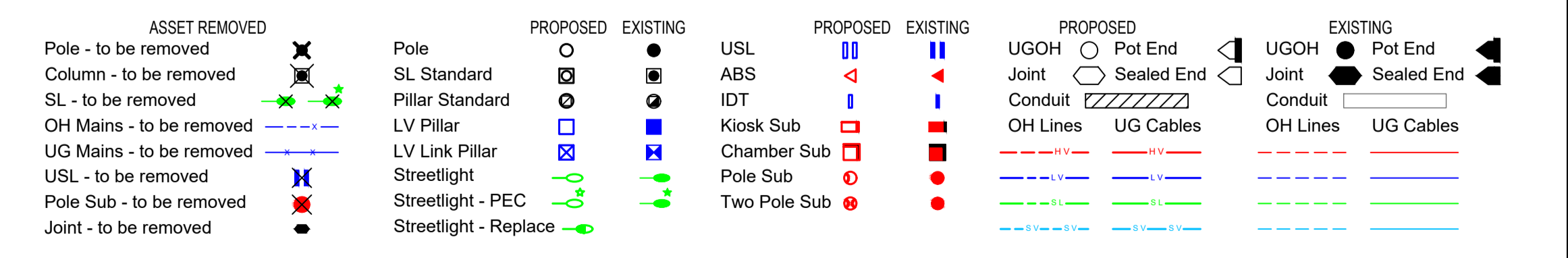
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UNDERGROUND CONSTRUCTION WORKS SCHEDULE (DUCT PULL V1.1)								
REF. IDENTIFIER	ROUTE DISTANCE (m)	CIRCUIT VOLTAGE	CONDUCTOR OR ASSET DETAIL	CONDUCT OR CODE / STOCK CODE	MIN. INTERNAL BENDING RADIUS (mm) DURING INSTALLATION	MIN. INTERNAL BENDING RADIUS (mm) AFTER INSTALLATION	CALCULATED MAX. PULLING TENSION (kN) DURING INSTALLATION	CONSTRUCTION DETAIL
A	-	HV	EXISTING KIOSK SUBSTATION S2385	-	-	-	-	REMOVE AND DECOMMISSION EXISTING SUBSTATION AND ITS ASSOCIATED EQUIPMENT.
B	-	HV	NEW 1000KVA 'L' TYPE KIOSK SUBSTATION S34681 GREENWICH HOSPITAL NO.1(TERMINATION HV1-52)	-	-	-	-	ESTABLISH 1000KVA 'L' TYPE KIOSK SUBSTATION S34681 GREENWICH HOSPITAL NO.1
B1	-	HV	NEW 1000KVA 'L' TYPE KIOSK SUBSTATION S34683 GREENWICH HOSPITAL NO.2(TERMINATION HV1-52)	-	-	-	-	ESTABLISH 1000KVA 'L' TYPE KIOSK SUBSTATION S34683 GREENWICH HOSPITAL NO.2
B1 - F	20	LV	415V 185 CU1 XQ Z / 4 CABLE	5044	270	180	0.44 kN	INSTALL LV CABLE AS PER THIS DESIGN AND CROSS SECTION 'A-A'.
G - J	55	LV	415V 185 CU1 XQ Z / 4 CABLE	5044	270	180	1.93 kN	INSTALL LV CABLE AS PER THIS DESIGN AND CROSS SECTION 'B-B', 'C-C', 'D-D', 'E-E'.
B - B1	5	LV	415V 185 CU1 XQ Z / 4 CABLE	5044	270	180	-	DIRECT BURIED CABLE BETWEEN KIOSK SUBSTATION S34681 AT REF 'B' & KIOSK SUBSTATION S34683 AT REF 'B1'
P - 2	5	LV	415V 185 CU1 XQ Z / 4 CABLE	5044	270	180	0.18kN	INSTALL LV CABLE AS PER THIS DESIGN AND CROSS SECTION 'K-K'.
B - B1	5	HV	11kV 300 CU1 TRXQ 70 CU(WS) Z YQ / TX	1240	1275 (BUNDLED) 960 (PHASE)	850 (BUNDLED) 575 (PHASE)	-	DIRECT BURIED CABLE BETWEEN KIOSK SUBSTATION S34681 AT REF 'B' & KIOSK SUBSTATION S34683 AT REF 'B1'
B - C	15	HV	11kV 185 CU1 TRXQ 70 CU(WS) Z YQ / TX	1220	1120 (BUNDLED) 870 (PHASE)	745 (BUNDLED) 525 (PHASE)	-	INSTALL HV CABLE AS PER THIS DESIGN AND CROSS SECTION 'A-A'.
B1 - E	12	HV	11kV 185 CU1 TRXQ 70 CU(WS) Z YQ / TX	1220	1120 (BUNDLED) 870 (PHASE)	745 (BUNDLED) 525 (PHASE)	-	INSTALL HV CABLE AS PER THIS DESIGN AND CROSS SECTION 'A-A'.
E - K	220	HV	11kV 400 AL3 TRXQ 35 CU(WS) Z YQ	1211	2180	1305	8.52 kN	INSTALL HV CABLE AS PER THIS DESIGN AND CROSS SECTION 'G-G' & 'H-H'.
K - L	220	HV	11kV 400 AL3 TRXQ 35 CU(WS) Z YQ	1211	2180	1305	15.52 kN	INSTALL HV CABLE AS PER THIS DESIGN AND CROSS SECTION 'I-I' & 'J-J'.
M - N	8	HV	11kV 300 CU1 TRXQ 70 CU(WS) Z YQ / TX	1240	1275 (BUNDLED) 960 (PHASE)	850 (BUNDLED) 575 (PHASE)	-	INSTALL HV CABLE AS PER THIS DESIGN AND CROSS SECTION 'J-J'.
A - C	27	HV	EXISTING HV CABLE	1638	-	-	-	CUT AND REMOVE EXISTING CABLE BETWEEN POINTS 'A' & 'C'.
A - D	29	HV	EXISTING HV CABLE	391	-	-	-	CUT AND REMOVE EXISTING CABLE BETWEEN POINTS 'A' & 'D'. ALLOW FOR TEE JOINT AT POINT 'D'.
C	-	HV	STRAIGHT THROUGH JOINT FOR SINGLE CORE CABLES (HV2-21)	1220 1638	-	-	-	INSTALL NEW STRAIGHT THROUGH JOINT FOR SINGLE CORE CABLES (HV2-21) BETWEEN 11kV 300 CU1 TRXQ 70 CU(WS) Z YQ / TX & 11kV 185 CU1 TRXQ 70 CU(WS) Z YQ / TX CABLES AT POINT 'C'.
D	-	HV	TEE JOINT (HV3-40)	1638 391	-	-	-	INSTALL NEW TEE JOINT (HV3-40) BETWEEN 11kV 300 CU1 TRXQ 70 CU(WS) Z YQ / TX CABLES AT POINT 'D'.
E	-	HV	THREE-TO-ONE JOINT (HV2-23)	1220 1211	-	-	-	INSTALL NEW THREE-TO-ONE JOINT (HV2-23) BETWEEN 11kV 185 CU1 TRXQ 70 CU(WS) Z YQ/TX AND 11kV 400 AL3 TRXQ 35 CU(WS) Z YQ CABLES AT POINT 'E'.
F, G & P	-	LV	STRAIGHT THROUGH JOINT FOR SINGLE CORE CABLES (LV2-24)	5044	-	-	-	INSTALL NEW STRAIGHT THROUGH JOINT FOR SINGLE CORE CABLES (LV2-24) BETWEEN 185 CU1 CABLES AT POINTS 'F', 'G' & 'P'.
K	-	HV	STRAIGHT THROUGH JOINT (HV2-22)	1211	-	-	-	INSTALL NEW STJ (HV2-22) BETWEEN 11kV 400 AL3 TRXQ 35 CU(WS) Z YQ CABLES AT POINT 'K'.
L	-	HV	POLYMERIC TEE JOINTS (HV3-40)	1211 1240	-	-	-	INSTALL NEW POLYMERIC TEE JOINT (HV3-40) BETWEEN 11kV 400 AL3 TRXQ 35 CU(WS) Z YQ AND 11kV 300 CU1 TRXQ 70 CU(WS) Z YQ /TX CABLES AT POINT 'L'.
M & N	-	HV	INSTALL NEW TRANSITION TEE JOINT (HV3-42)	210 1240	-	-	-	INSTALL NEW TRANSITION TEE JOINT (HV3-42) BETWEEN 11kV 129 CU3 P L AND 11kV 300 CU1 TRXQ 70 CU(WS) Z YQ /TX CABLES AT POINTS 'M' & 'N'.

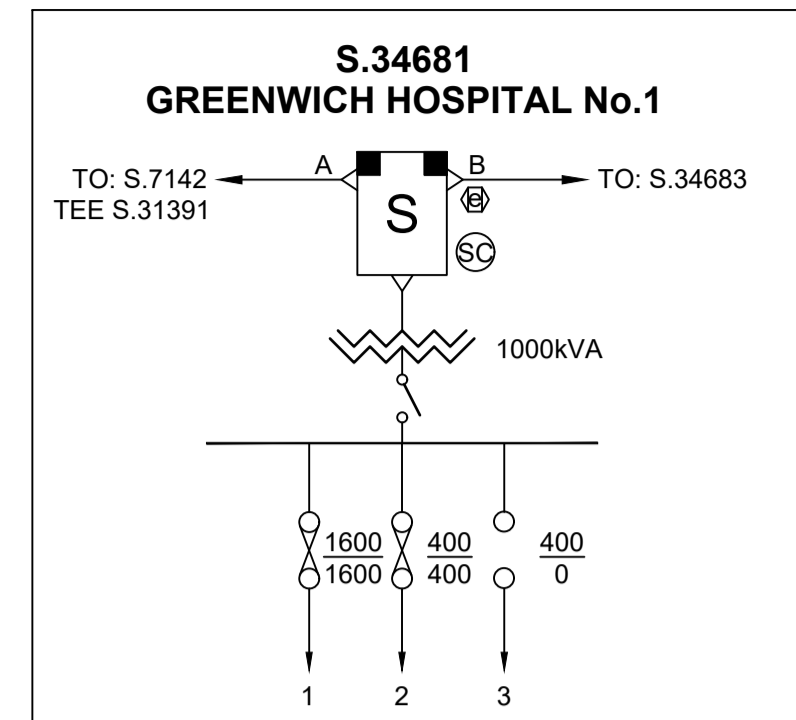
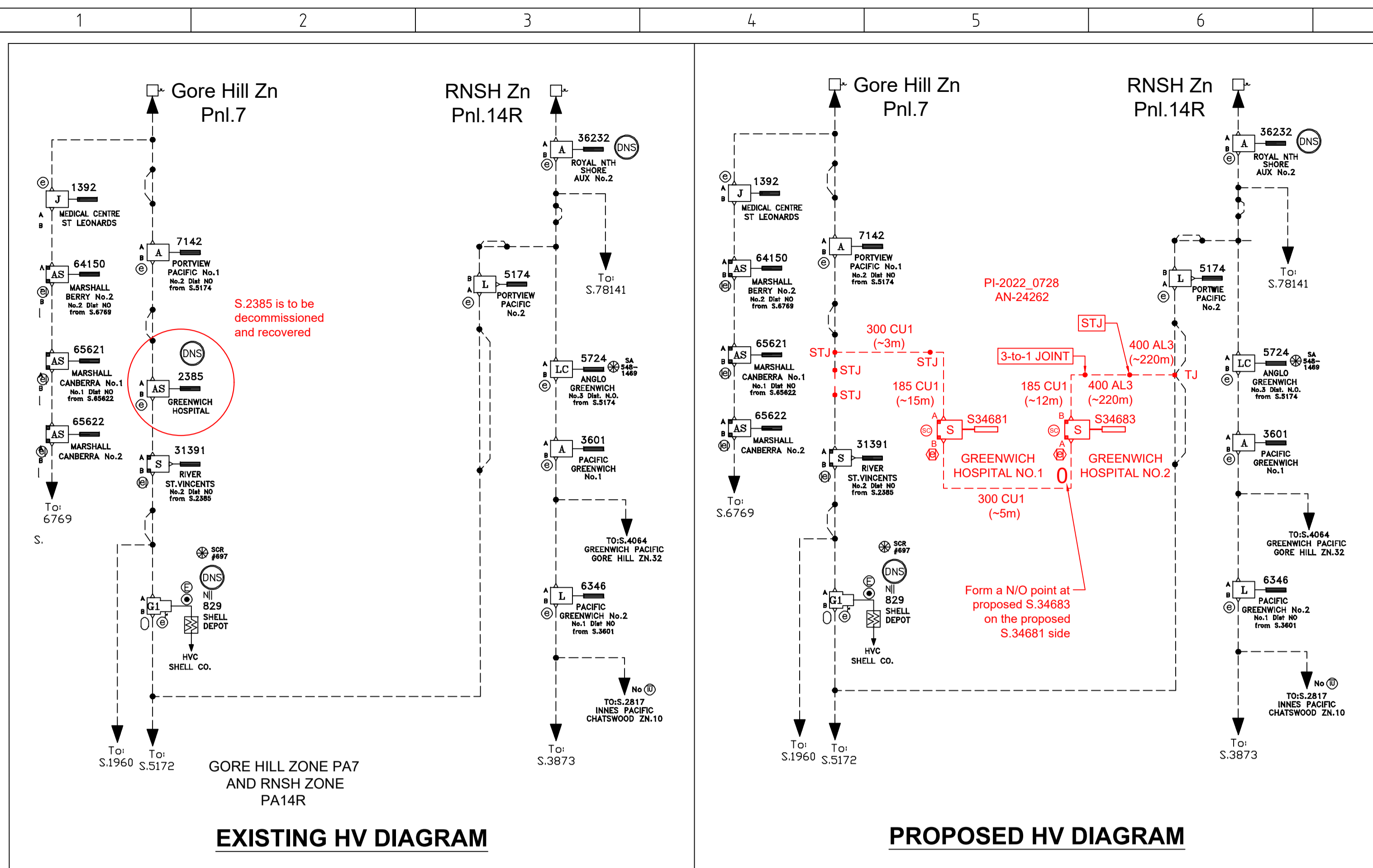
OVERHEAD CONSTRUCTION WORKS SCHEDULE (Neara V2.2)																
REF. IDENTIFIER	POLE NUMBER	SIZE (m)	STRENGTH (kN)	POLE TYPE	DEPTH (m)	FOOTING DETAILS	HV CONSTRUCTION		LV CONSTRUCTION		STAY DETAILS			No. of VIBRATION DAMPERS	No. of ARMOUR RODS	ADDITIONAL CONSTRUCTION DETAIL
							CONST TYPE	ATTACHED (m) FROM HEAD OF POLE	CONST TYPE	ATTACHED (m) FROM HEAD OF POLE	STAY TYPE	STAY SIZE	ATTACHED (m) FROM HEAD OF POLE			
1	GL-72362	-	-	-	-	-	-	-	EX + LV1-6	-	-	-	-	-	-	CLOSE EXISTING LINK.
2	GL-72360	-	-	-	-	-	-	-	EX	-	-	-	-	-	-	AUGMENT EXISTING UGOH TO BARE OH MAINS TO SINGLE CORE CABLES WITH FUSE SWITCH DISCONNECTOR (LV1-6). FUSE SWITCH NORMALLY CLOSE.

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ASP LEVEL 2 WORK
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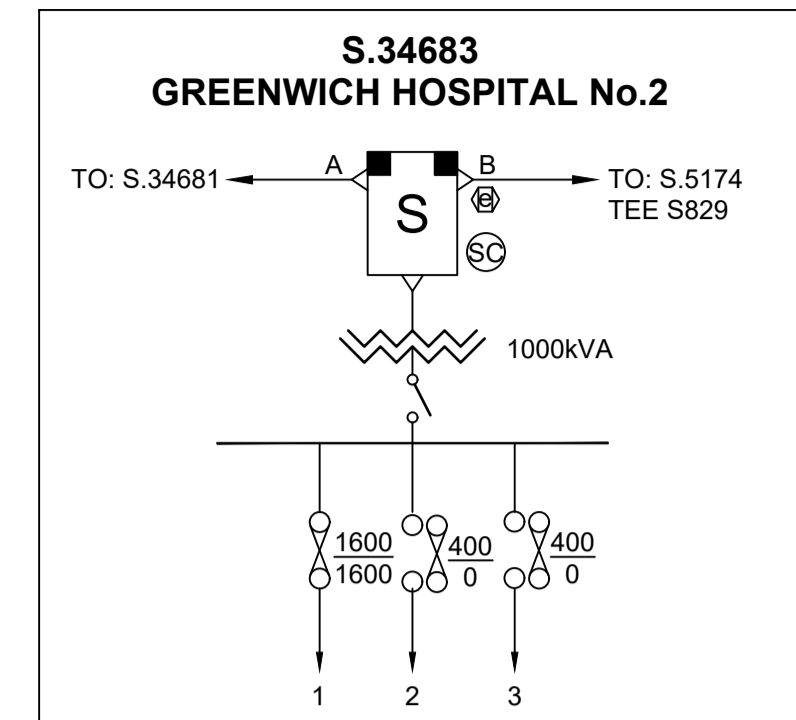


CAD DRAWING AMENDMENTS	DESIGNED BY KOSMA TZANNES AUTH NO. 3342/07 SUBMIT DATE 29/08/2023 LGA LANE COVE MUNICIPAL	 Level 20, 2 Market St Sydney NSW 2000 Australia +61 (02) 9437 1000 general@jhaengineers.com.au www.jhaengineers.com.au ASP 1/18/3342	MAP REF. 215K7 AUSGRID REF. GL64 PRJ/TRAK No. XCH015546	DECOM. EXISTING SUB S.2385 AND ESTABLISH NEW 2 x 1000KVA L TYPE KIOSK SUBSTATION AT 97-115 RIVER RD GREENWICH NSW 2066	SIZE A1 AUSGRID PROJECT No. AN-24262	SHEETS 3 of 8 AMD 0						
							ASP REF. 210031	CERTIFICATION NUMBER 2440483/20230829				
20160817	1	2	3	4	5	6	7	8	9	10	11	12



LV DISTRIBUTOR DETAILS	
DIST	DESTINATION
1	1 GREENWICH HOSPITAL SUPPLY No.1
2	S.34683
3	WDNO

KIOSK SUBSTATION DETAILS	
SUBSTATION NAME:	GREENWICH HOSPITAL NO1
SUBSTATION NUMBER:	34681
ADDRESS:	RIVER RD, GREENWICH
SUBSTATION TYPE:	KL
SIZE (kVA):	1000kVA
VECTOR GROUP:	Dyn1
TAP SETTING:	10670/433 TAP6
HV SWITCHGEAR:	SCHNEIDER ELECTRIC RMI
HV FUSE DETAILS:	100amp SIBA 300.20.93.100
LOAD CYCLE:	COMMERCIAL
PHASING DETAIL:	TO BE VERIFIED ON SITE BY THE ASP1 PRIOR TO COMMISSIONING.
LOW VOLTAGE BOARD:	1600/400/400
CCT1 LV FUSE SIZE (Amps):	1600Amps 160mm CENTRES ALSTOM
CCT2 LV FUSE SIZE (Amps):	400Amps 92mm CENTRES BELL / MEM "J"
CCT3 LV FUSE SIZE (Amps):	400Amps 92mm CENTRES BELL / MEM "J"
CONFIGURE AS:	Dyn11
EARTHING REQUIREMENTS:	AS PER NS116
SUBSTATION PIERING:	AS PER NS141 & DWG 151572 STANDARD DOUBLE KIOSK ARRANGEMENT AS PER NS141 & DWG 151572 SITE PLAN D
EASEMENT PLAN DETAIL:	AS PER NS116



LV DISTRIBUTOR DETAILS	
DIST	DESTINATION
1	1 GREENWICH HOSPITAL SUPPLY No.2
2	S.34681
3	RIVER RD WEST & S.31391

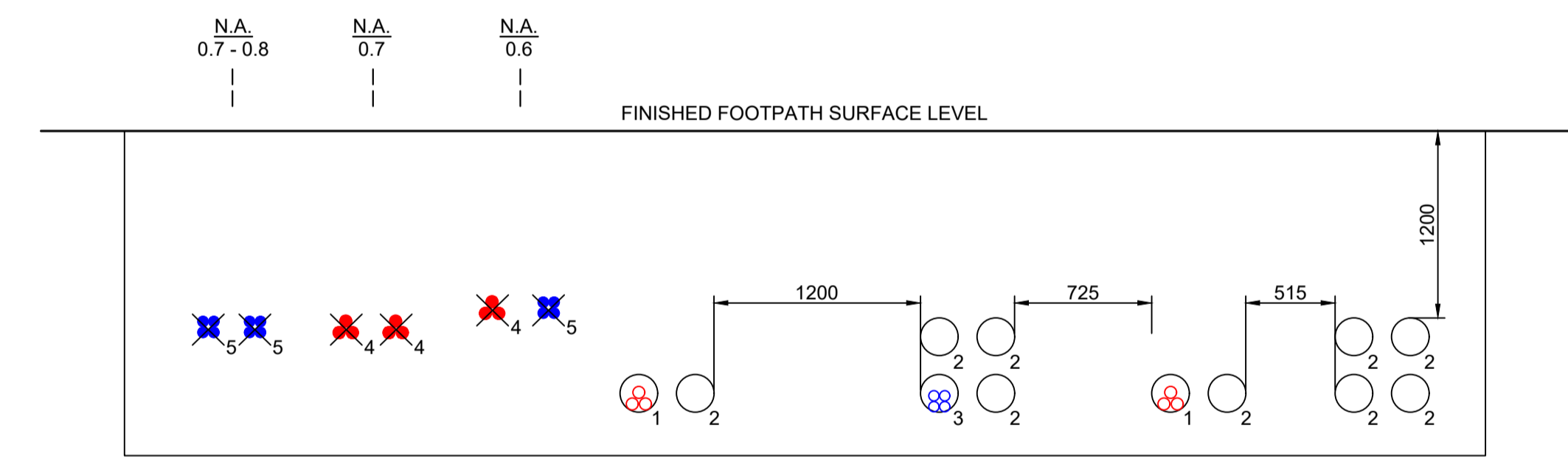
KIOSK SUBSTATION DETAILS	
SUBSTATION NAME:	GREENWICH HOSPITAL NO2
SUBSTATION NUMBER:	34683
ADDRESS:	RIVER RD, GREENWICH
SUBSTATION TYPE:	KL
SIZE (kVA):	1000kVA
VECTOR GROUP:	Dyn1
TAP SETTING:	10670/433 TAP6
HV SWITCHGEAR:	SCHNEIDER ELECTRIC RMI
HV FUSE DETAILS:	100amp SIBA 300.20.93.100
LOAD CYCLE:	COMMERCIAL
PHASING DETAIL:	TO BE VERIFIED ON SITE BY THE ASP1 PRIOR TO COMMISSIONING.
LOW VOLTAGE BOARD:	1600/400/400
CCT1 LV FUSE SIZE (Amps):	1600Amps 160mm CENTRES ALSTOM
CCT2 LV FUSE SIZE (Amps):	400Amps 92mm CENTRES BELL / MEM "J"
CCT3 LV FUSE SIZE (Amps):	400Amps 92mm CENTRES BELL / MEM "J"
CONFIGURE AS:	Dyn11
EARTHING REQUIREMENTS:	AS PER NS116
SUBSTATION PIERING:	AS PER NS141 & DWG 151572 STANDARD DOUBLE KIOSK ARRANGEMENT AS PER NS141 & DWG 151572 SITE PLAN D
EASEMENT PLAN DETAIL:	AS PER NS116

CHECK FOR OTHER SERVICES BEFORE BORING OR EXCAVATING

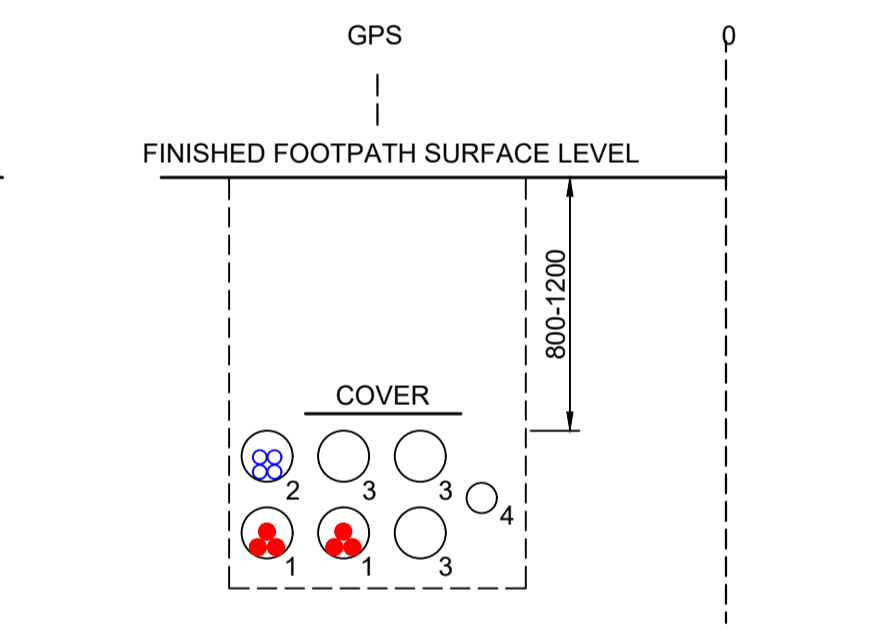
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ASP LEVEL 2 WORK

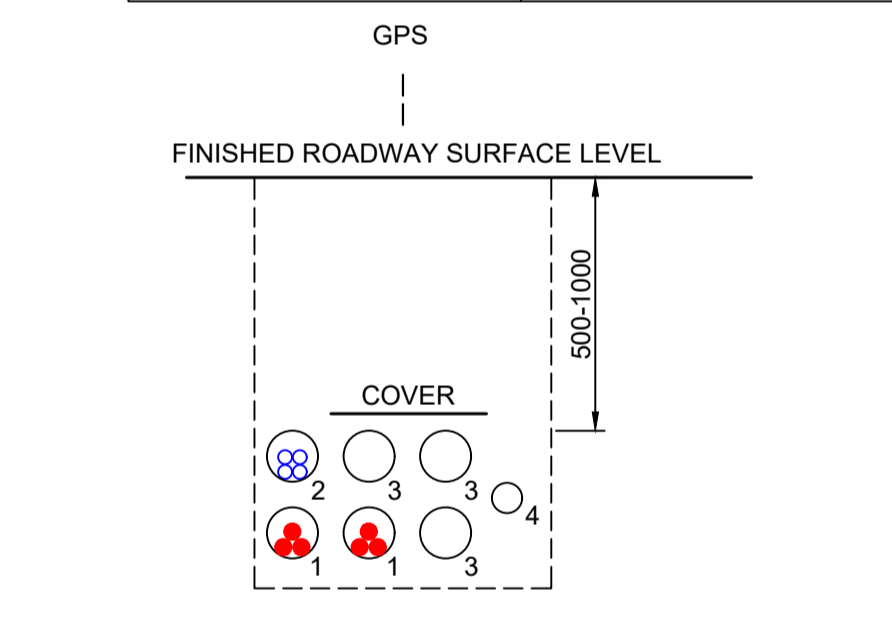
ALL LEVEL 2 ASP WORK DEPICTED ON THIS DRAWING IS SHOWN FOR INFORMATION PURPOSES ONLY AND DOES NOT FORM PART OF THE CERTIFIED DESIGN.



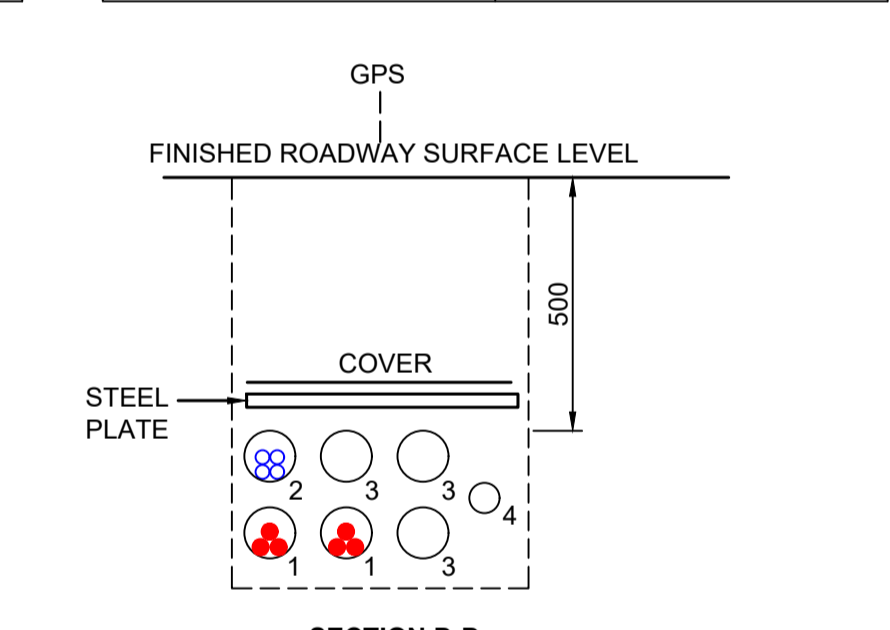
- SECTION A-A**
- NEW 11kV 185 CU1 TX IN 125mm PVC CONDUIT
 - NEW SPARE 125mm PVC CONDUIT
 - NEW 415V 185 CU 1 IN 125mm PVC CONDUIT
 - REMOVE EXISTING HV CABLE DIRECT BURIED
 - REMOVE EXISTING LV CABLE DIRECT BURIED



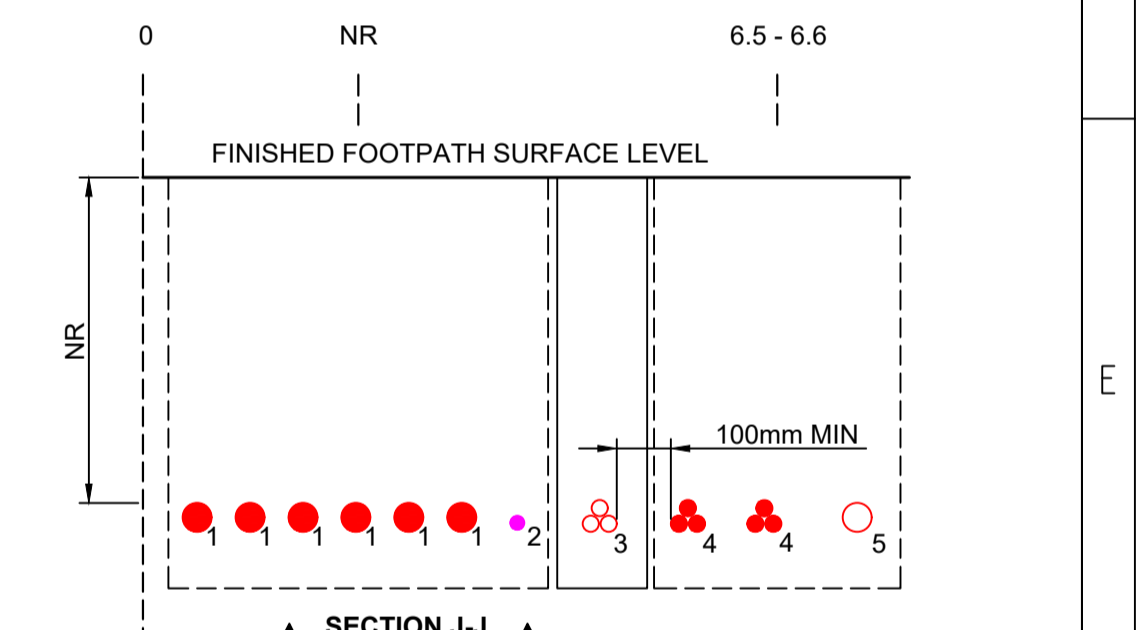
- SECTION B-B**
- EXISTING HV CABLE IN 150mm PVC CONDUIT
 - NEW 185 CU1 CABLE IN SPARE 150mm PVC CONDUIT
 - EXISTING SPARE 150mm PVC CONDUIT
 - EXISTING SPARE 63mm PVC CONDUIT



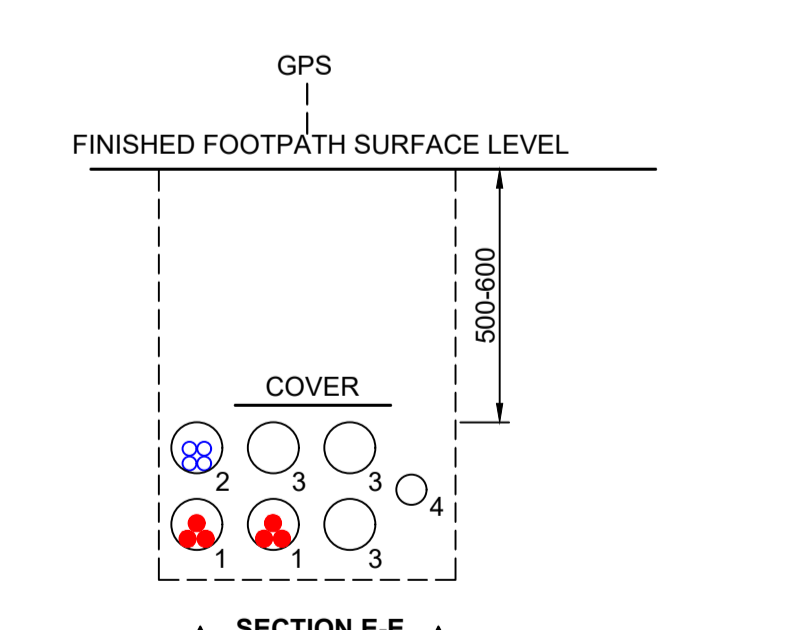
- SECTION C-C**
- EXISTING HV CABLE IN 150mm PVC CONDUIT
 - NEW 185 CU1 CABLE IN SPARE 150mm PVC CONDUIT
 - EXISTING SPARE 150mm PVC CONDUIT
 - EXISTING SPARE 63mm PVC CONDUIT



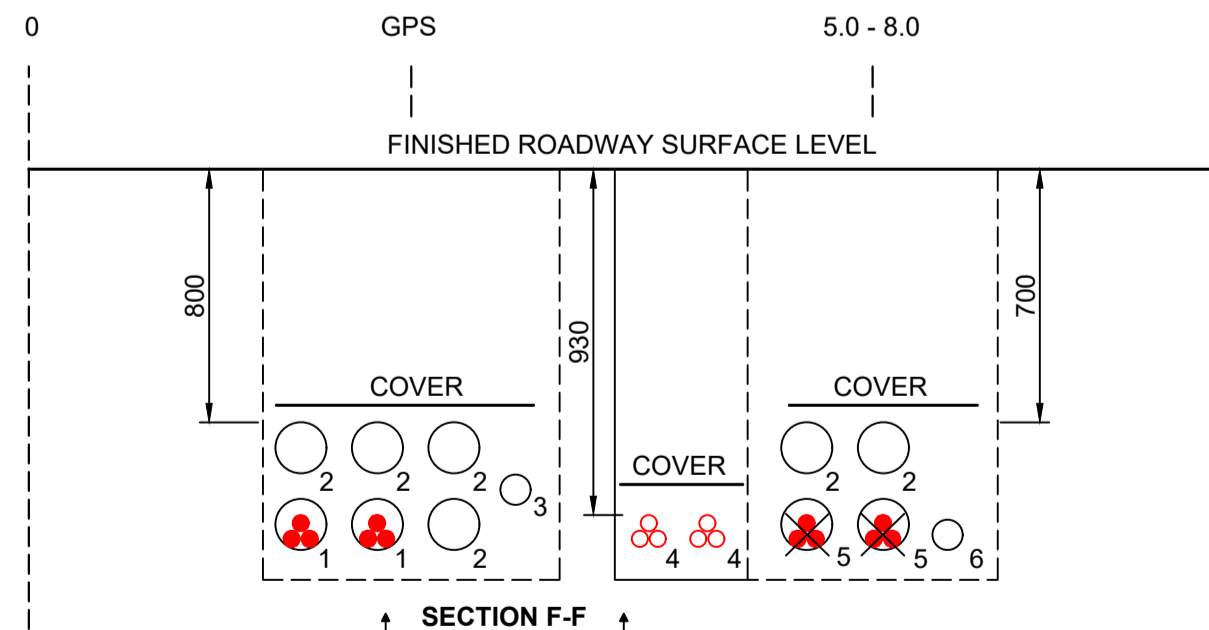
- SECTION D-D**
- EXISTING HV CABLE IN 150mm PVC CONDUIT
 - NEW 185 CU1 CABLE IN SPARE 150mm PVC CONDUIT
 - EXISTING SPARE 150mm PVC CONDUIT
 - EXISTING SPARE 63mm PVC CONDUIT



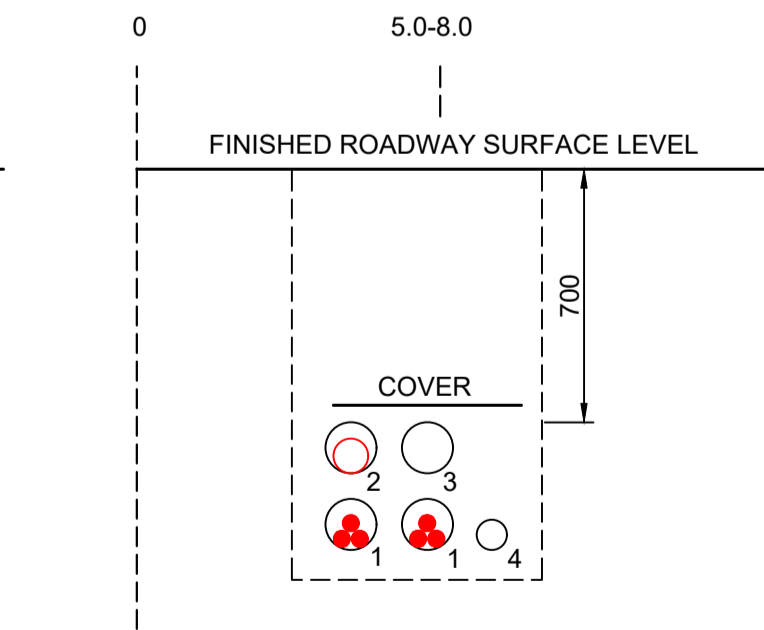
- SECTION J-J**
- EXISTING HV CABLE DIRECT BURIED
 - EXISTING AUX CABLE DIRECT BURIED
 - NEW DIRECT BURIED 300 CU1 CABLE
 - EXISTING HV CABLE DIRECT BURIED
 - NEW DIRECT BURIED 11kV 400AL3



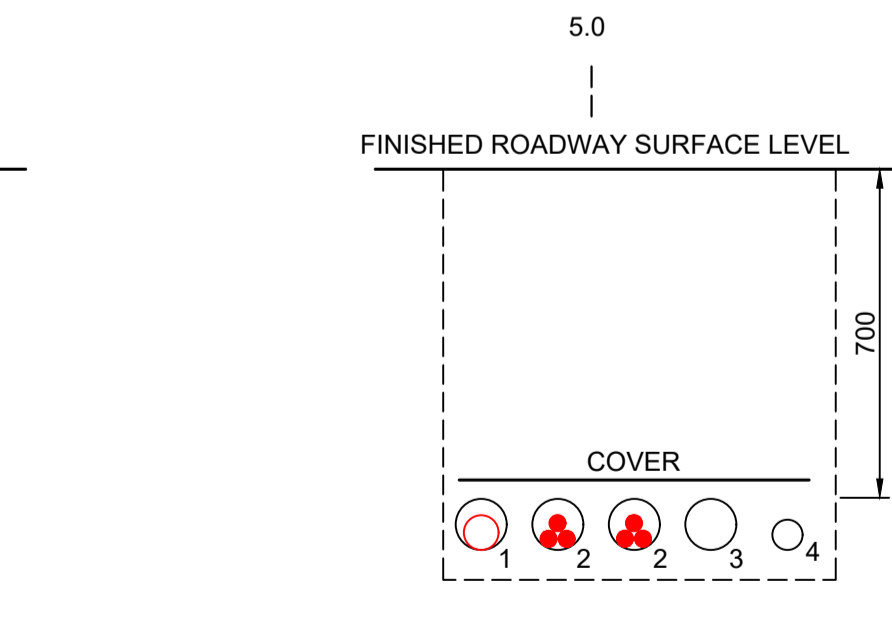
- SECTION E-E**
- EXISTING HV CABLE IN 150mm PVC CONDUIT
 - NEW 185 CU1 CABLE IN SPARE 150mm PVC CONDUIT
 - EXISTING SPARE 150mm PVC CONDUIT
 - EXISTING SPARE 63mm PVC CONDUIT



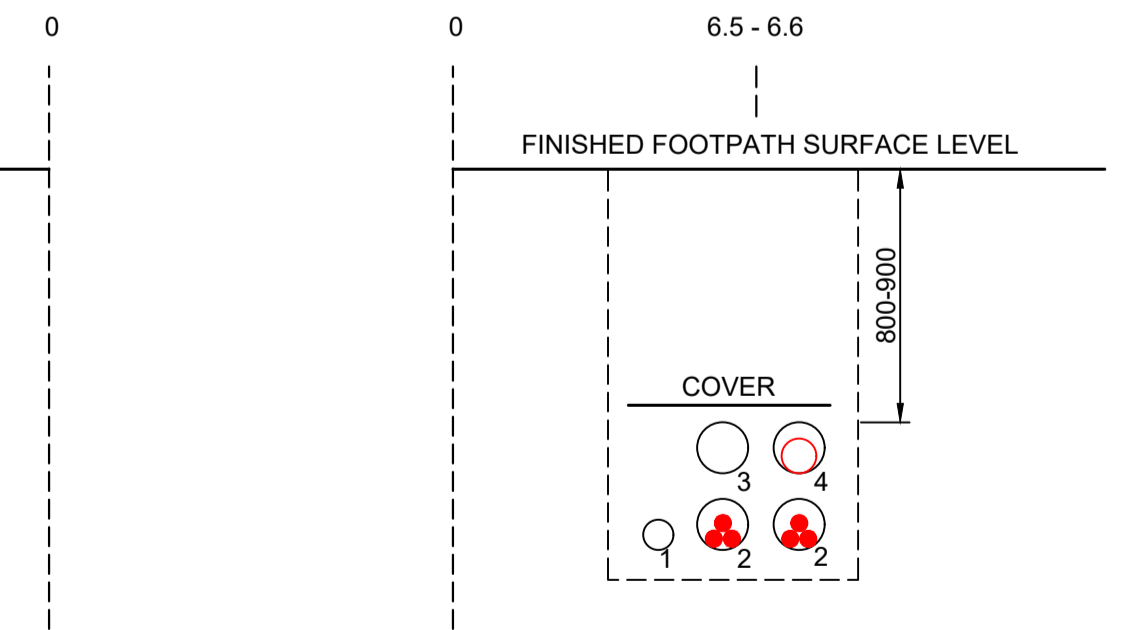
- SECTION F-F**
- EXISTING HV CABLE IN 150mm PVC CONDUIT
 - EXISTING SPARE 150mm PVC CONDUIT
 - EXISTING SPARE 63mm PVC CONDUIT
 - NEW DIRECT BURIED 185 CU1 CABLE
 - REMOVE EXISTING HV CABLE IN 150mm PVC CONDUIT
 - EXISTING SPARE 50mm PVC CONDUIT



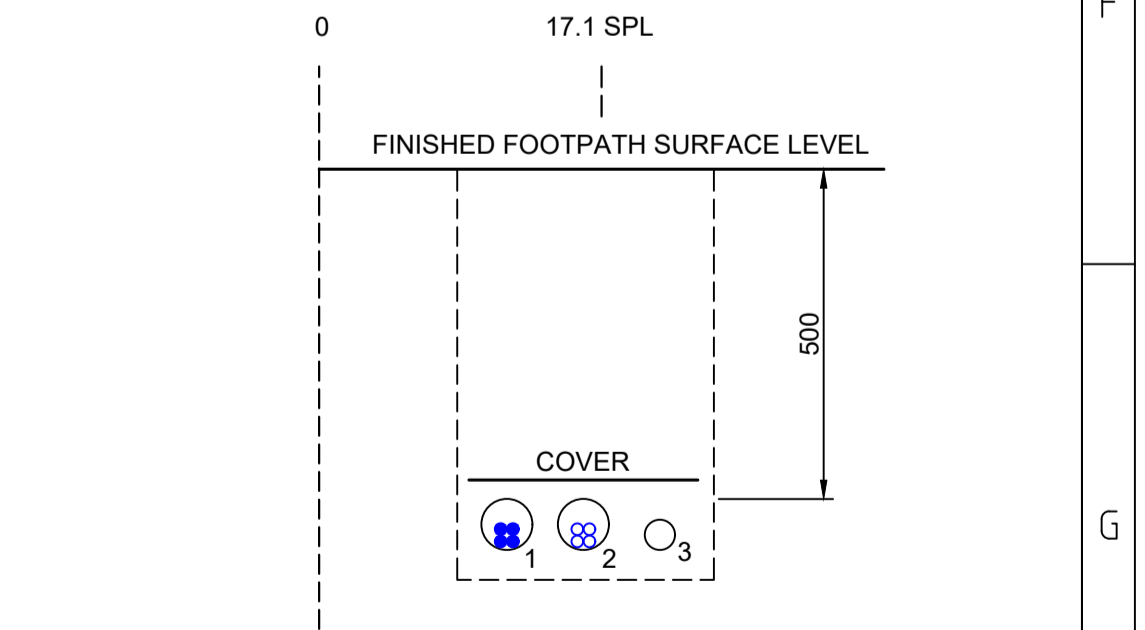
- SECTION G-G**
- EXISTING HV CABLE IN 150mm PVC CONDUIT
 - NEW 11kV 400AL3 IN EXISTING 150mm PVC CONDUIT
 - EXISTING SPARE 150mm PVC CONDUIT
 - EXISTING SPARE 50mm PVC CONDUIT



- SECTION H-H**
- NEW 11kV 400AL3 IN EXISTING 150mm PVC CONDUIT
 - EXISTING HV CABLE IN 150mm PVC CONDUIT
 - EXISTING SPARE 150mm PVC CONDUIT
 - EXISTING SPARE 50mm PVC CONDUIT



- SECTION I-I**
- EXISTING SPARE 50mm PVC CONDUIT
 - EXISTING HV CABLE IN 150mm PVC CONDUIT
 - EXISTING SPARE 150mm PVC CONDUIT
 - NEW 11kV 400AL3 IN EXISTING 150mm PVC CONDUIT



- SECTION K-K**
- EXISTING LV CABLE IN 150mm PVC CONDUIT
 - NEW 415V 185 CU1 XQ Z IN EXISTING 150mm PVC CONDUIT
 - EXISTING SPARE 50mm PVC CONDUIT

CAD DRAWING NO. AMENDMENTS	20160817	1	2	3	4	5	6	7	8	9	10	11	12		Level 20, 2 Market St Sydney NSW 2000 Australia +61 (0)2 9437 1000 general@jhaengineers.com.au www.jhaengineers.com ASP/13/3342	DESIGNED BY: KOSMA TZANNES AUTH NO.: 3342/07 SUBMIT DATE: 29/08/2023 LG: LANE COVE MUNICIPAL MAP REF.: 215K7 AUSGRID REF.: GL64 PROJ/TRAK No.: XCH015546	DECOM. EXISTING SUB S.2385 AND ESTABLISH NEW 2 x 1000kVA L TYPE KIOSK SUBSTATION AT 97-115 RIVER RD GREENWICH NSW 2065	SIZE: 4 of 8 SHEETS: 4 AMD: 0
															ASSOCIATED DRAWINGS	CERTIFICATION NUMBER: 2440483/20230829 A1	AN-24262	

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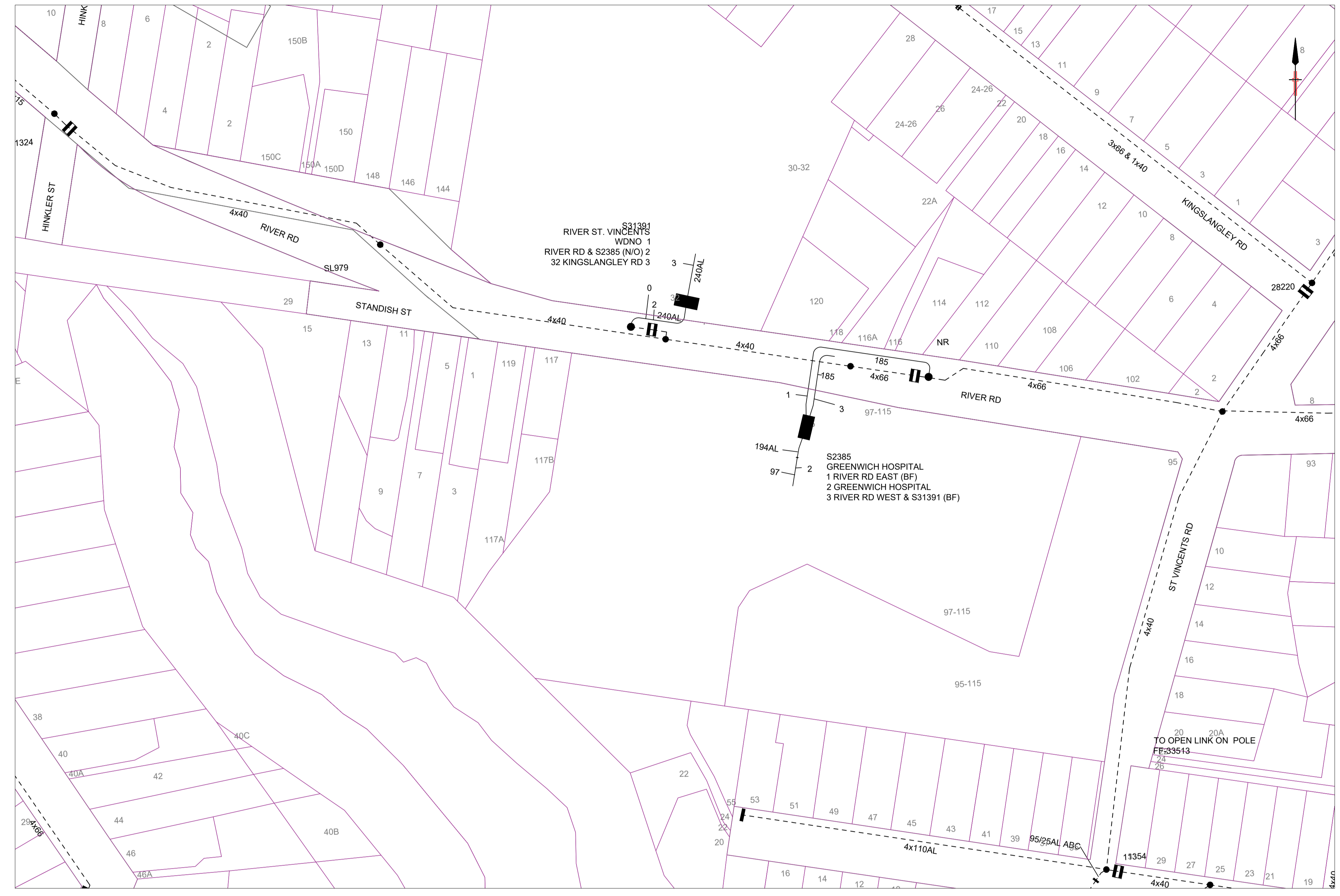
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ASP LEVEL 2 WORK

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LV GEOSCHEMATIC EXISTING			
LV UG Cable	Shackle Point	Link Box Internals	Link Box Internals
LV OH Cable	Fuse	Link Box Internals	Link Box Internals
UG Cable Joint	Link	Link Box Internals	Link Box Internals
Tee	Open Point	Link Box Internals	Link Box Internals
UGOH	UG Link Box	Link Box Internals	Link Box Internals
Termination	LV Pillar	Link Box Internals	Link Box Internals
Main Section	LV Link/Switch Pillar	Link Box Internals	Link Box Internals
IDT		switch number	



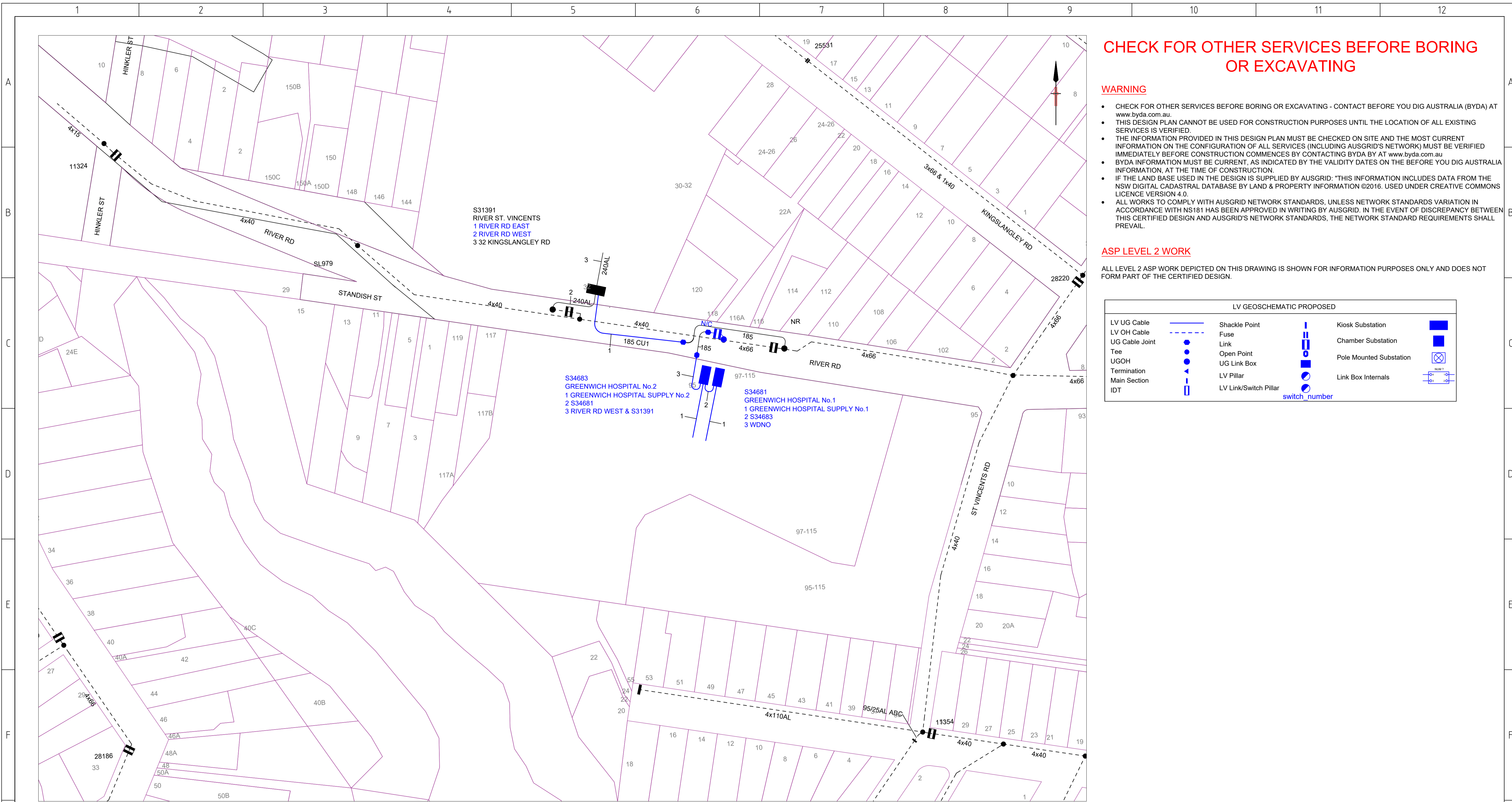
EXISTING LV SCHEMATIC
NTS

CAD DRAWING
AMENDMENTS

DESIGNED BY	KOSMA TZANNES
AUTH NO.	3342/07
SUBMIT DATE	29/08/2023
LG	LANE COVE MUNICIPAL
MAP REF.	215K7
AUSGRID REF.	GL64
PRJ/TRAK No.	XCH015546

DECOM. EXISTING SUB S.2385 AND ESTABLISH NEW 2 x 1000kVA L TYPE KIOSK SUBSTATION AT 97-115 RIVER RD GREENWICH NSW 2065

ASSOCIATED DRAWINGS CERTIFICATION NUMBER 2440483/20230829 A1
 SIZE AUSGRID PROJECT No. AN-24262
 SHEETS 5 of 8
 AMD 0



PROPOSED LV SCHEMATIC
NTS

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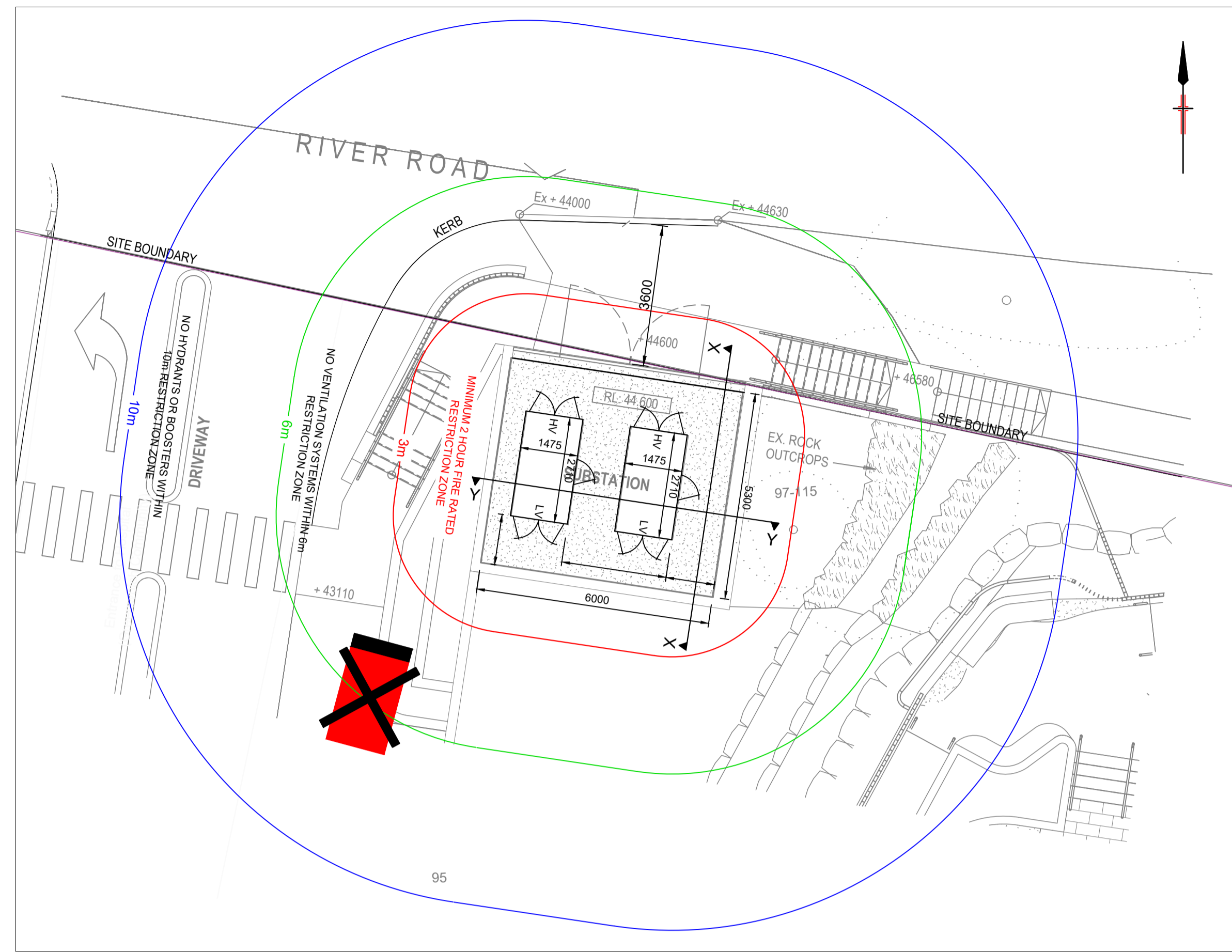
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LV GEOSCHEMATIC PROPOSED			
LV UG Cable		Shackle Point	
LV OH Cable		Fuse	
UG Cable Joint		Link	
Tee		Open Point	
UGOH		UG Link Box	
Termination		LV Pillar	
Main Section		LV Link/Switch Pillar	
IDT		switch_number	
		Kiosk Substation	
		Chamber Substation	
		Pole Mounted Substation	
		Link Box Internals	



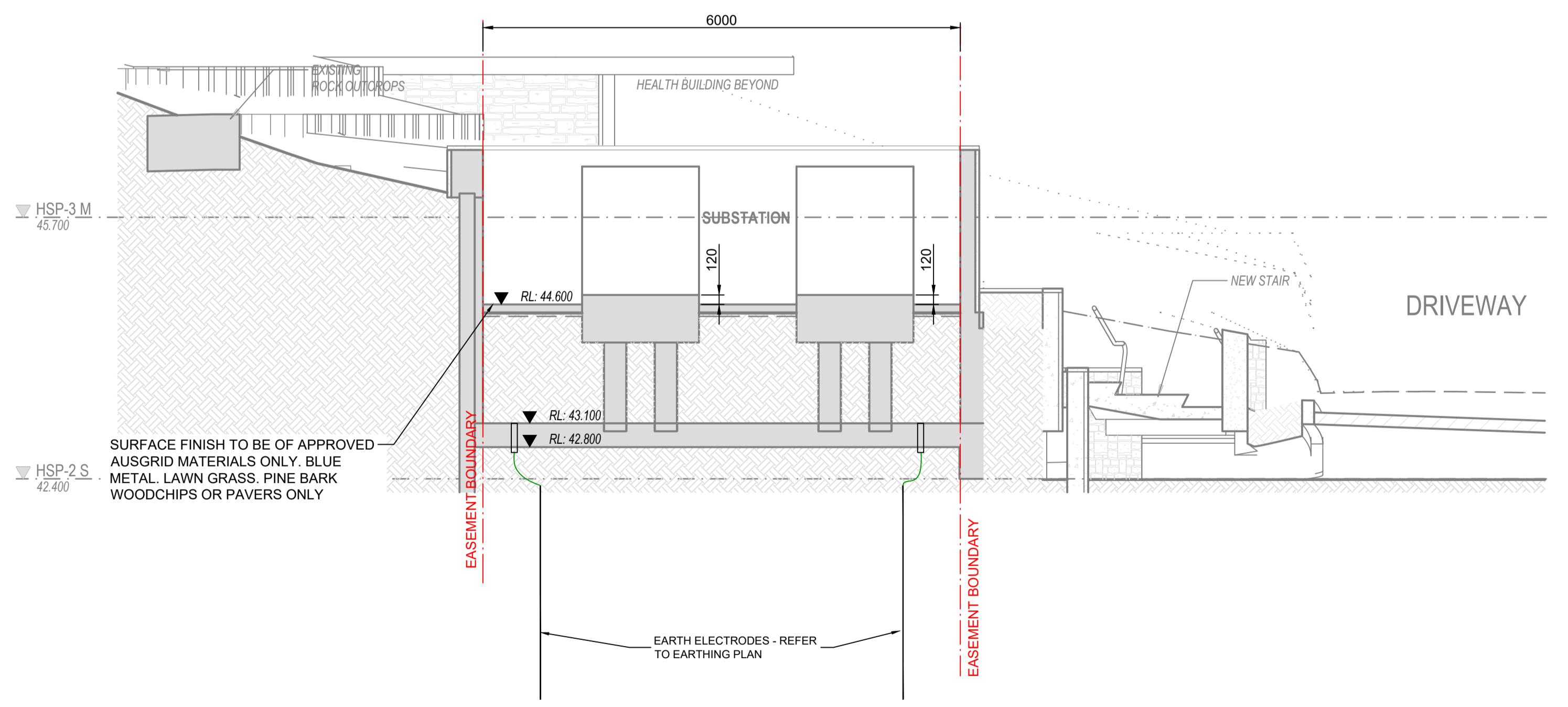
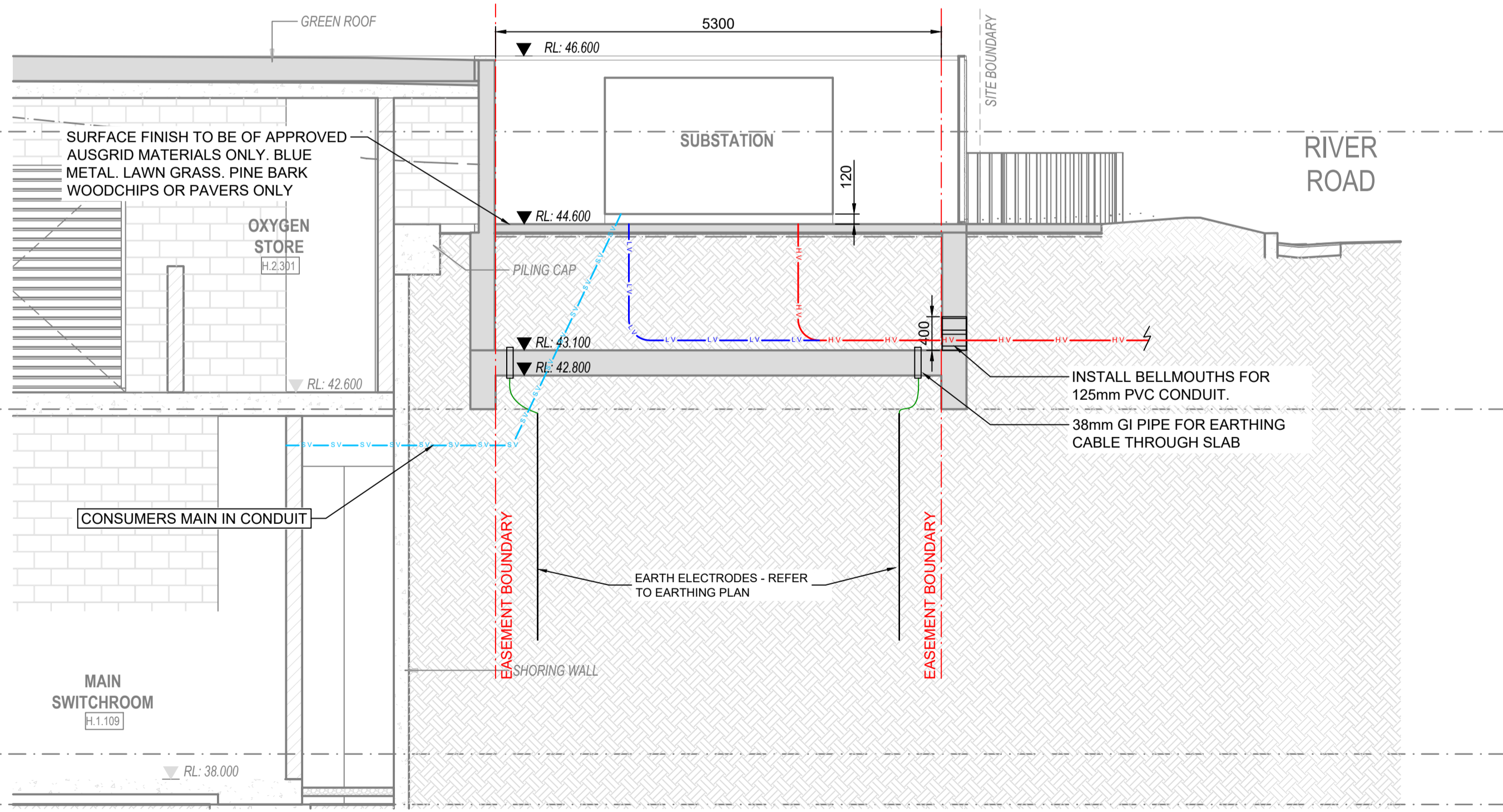
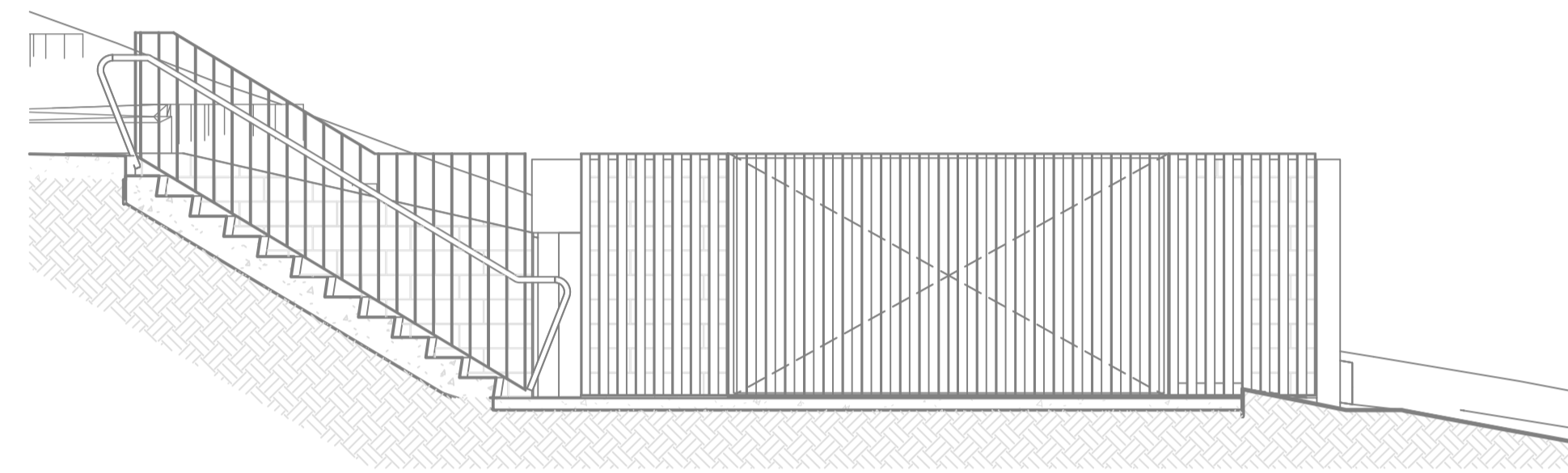
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WARNING

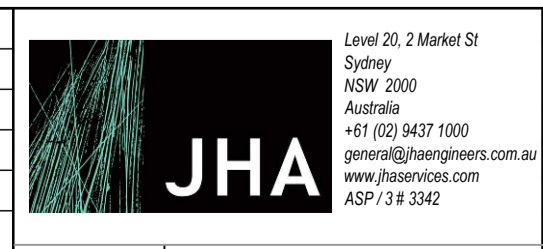
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CAD DRAWING
AMENDMENTS



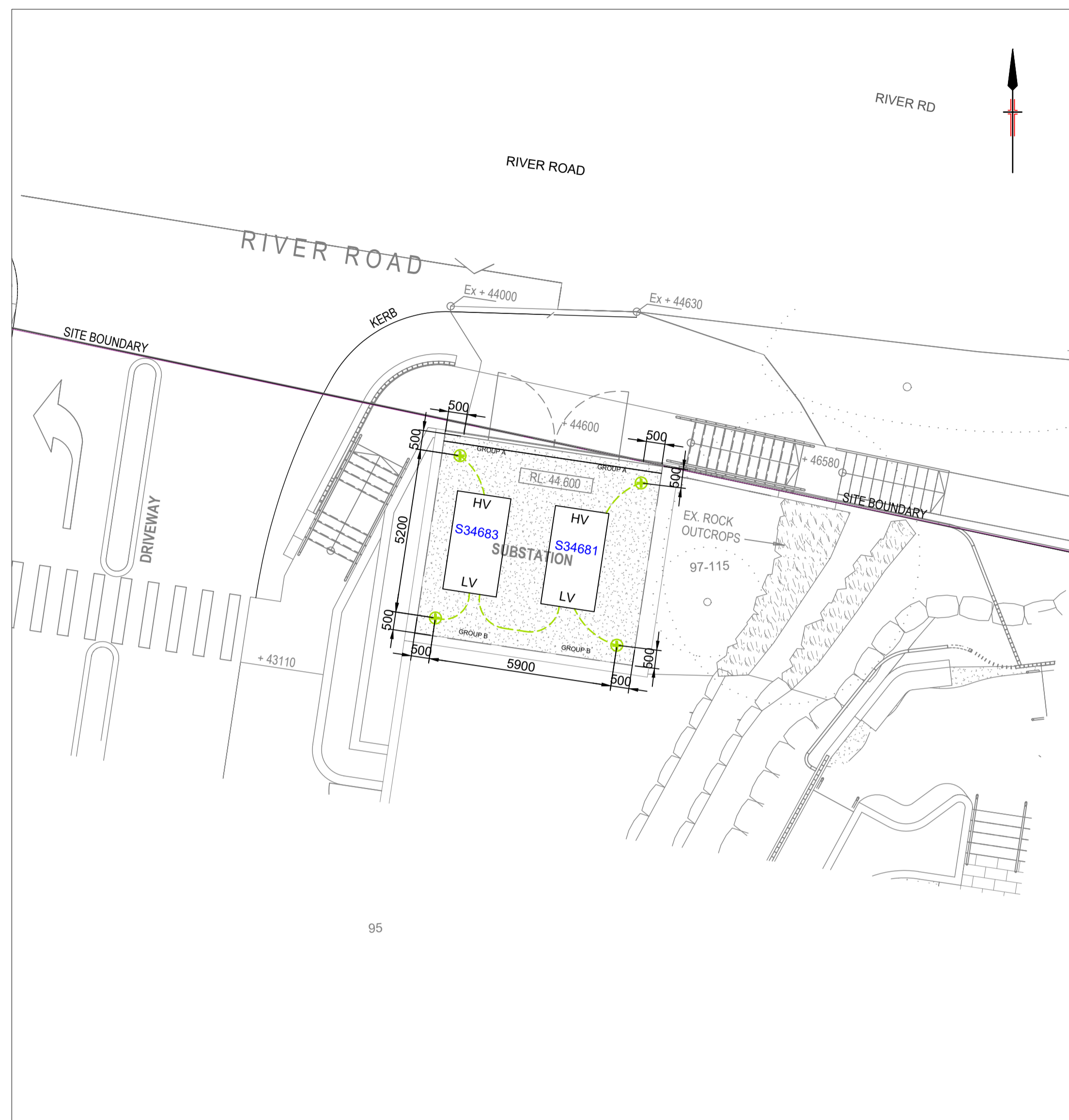
DESIGNED BY: KOSMA TZANNES
 AUTH NO.: 3342/07
 SUBMIT DATE: 29/08/2023
 LG: LANE COVE MUNICIPAL
 MAP REF.: 215K7
 AUSGRID REF.: GL64
 PROJ/TRAK No.: XCH015546

DECOM. EXISTING SUB S.2385 AND ESTABLISH NEW 2 x 1000kVA L TYPE KIOSK SUBSTATION AT 97-115 RIVER RD GREENWICH NSW 2065

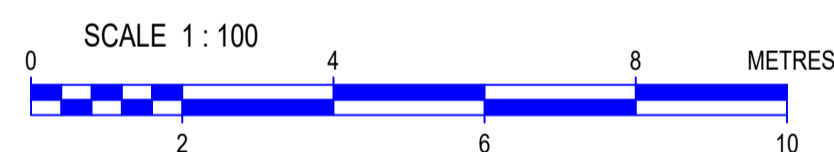
ASSOCIATED DRAWINGS

CERTIFICATION NUMBER 2440483/20230829 A1

SIZE: AN-24262
 SHEETS: 7 of 8
 AMD: 0



**PROPOSED SUBSTATIONS S.34681 & S.34683
EARTHING DIAGRAM**



LEGENDS FOR EARTHING DIAGRAM:

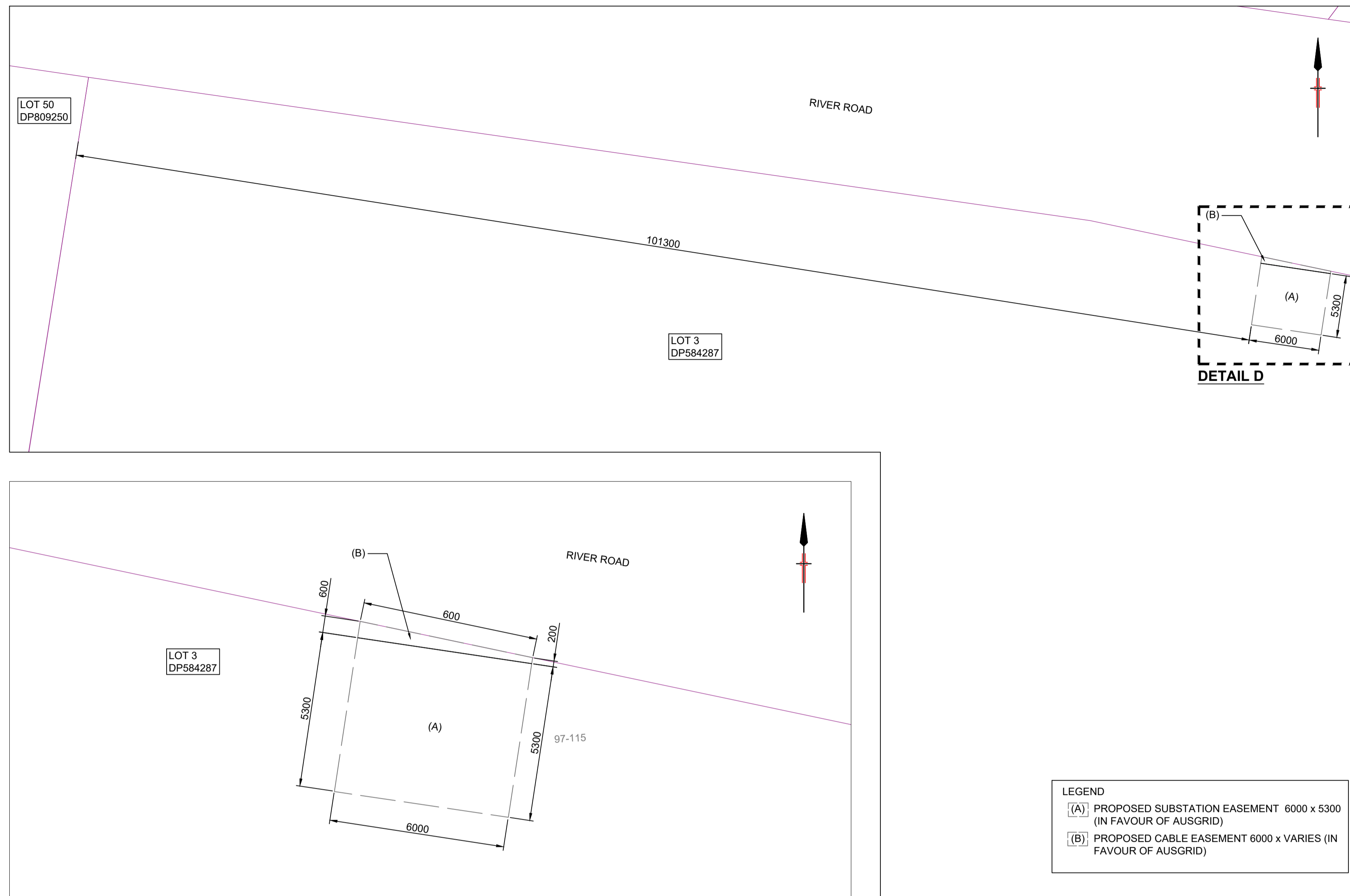
- 70sqmm STRANDED COPPER BLACK PVC POLYETHYLENE INSULATED CABLES ON NATURAL GROUND
- EARTH ELECTRODE 5.4m DEEP ON NATURAL GROUND.
- HV & LV EARTHING

EARTHING ARRANGEMENT FOR THE SUBSTATIONS S.34681 & S.34683 TO BE SME ARRANGEMENT. A NOMINAL LOCAL EARTHING SYSTEM RESISTANCE OF 200Ω OR LESS IS REQUIRED FOR EACH GROUP OF EARTHING ELECTRODES I.E. THE MAXIMUM TOTAL EARTHING RESISTANCE OF THE COMBINED HV AND LV EARTHING ELECTRODES IS LESS THAN 100Ω. WHERE THIS EARTHING RESISTANCE VALUE HAS NOT BEEN ACHIEVED, THE EARTHING INSTALLER / AUSGRID COMPLIANCE OFFICER SHALL CONTACT AUSGRID EARTHING & INSTALLATION COORDINATION GROUP WITHIN THE SUBSTATION DESIGN SECTION FOR FURTHER DIRECTION / ASSISTANCE.

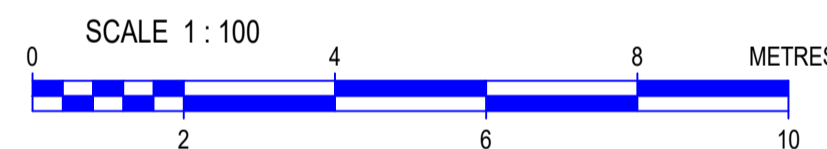
EARTHING SPECIFICATION - SME S.34681 & S.34683			
HV ELECTRODES		LV ELECTRODES	
NUMBER OF ELECTRODES	2	NUMBER OF ELECTRODES	2
DEPTH OF EACH ELECTRODE	5.4m	DEPTH OF EACH ELECTRODE	5.4m
SPACING BETWEEN EACH ELECTRODE	3.0m	SPACING BETWEEN EACH ELECTRODE	3.0m
MAX RESISTANCE	< 200Ω	MAX RESISTANCE	< 200Ω
COMBINED RESISTANCE		< 100Ω	
MINIMUM SEPARATION FROM TELCO ASSETS		1.2m	
MINIMUM SEPARATION BETWEEN HV AND LV ELECTRODES		4.3m	
EARTHING CONFIGURATION		COMBINED	
DESIGN CURVE		ENA-TDMEN 50Ω	
ELECTRODES INSTALLATION		DRIVEN	

GENERAL RECOMMENDATIONS

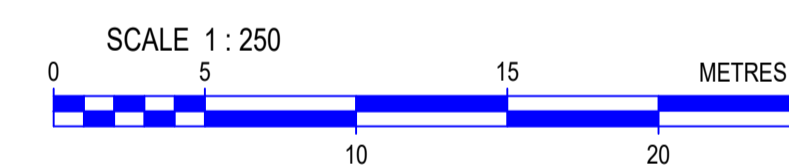
- ELECTRODE DRILL HOLES ARE TO BE BACKFILLED WITH BENTONITE GYPSUM SLURRY (e.g. GOOD EARTH).
- ALL CONDUCTORS SHALL BE 0.6/1kV PVC INSULATED 70mm² STRANDED COPPER CONDUCTOR.
- ANY UNDERGROUND JOINTS ARE TO USE TWO BUNDTY 'C' CRIMPS, BURIED TO A DEPTH OF 500mm.
- ALL BURIED CONDUCTORS SHALL BE BURIED TO A MINIMUM DEPTH OF 500mm AND COVERED WITH A PVC COVER STRIP.



**EASEMENT PLAN DETAIL D
SCALE 1:100**



**EASEMENT PLAN
SCALE 1:250**



- LEGEND**
- (A) PROPOSED SUBSTATION EASEMENT 6000 x 5300 (IN FAVOUR OF AUSGRID)
 - (B) PROPOSED CABLE EASEMENT 6000 x VARIES (IN FAVOUR OF AUSGRID)

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AMENDMENTS



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AUTH NO.	3342/07
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ASSOCIATED DRAWINGS

CERTIFICATION NUMBER 2440483/20230829 A1

AUSGRID PROJECT No. AN-24262

SHEETS 8 of 8