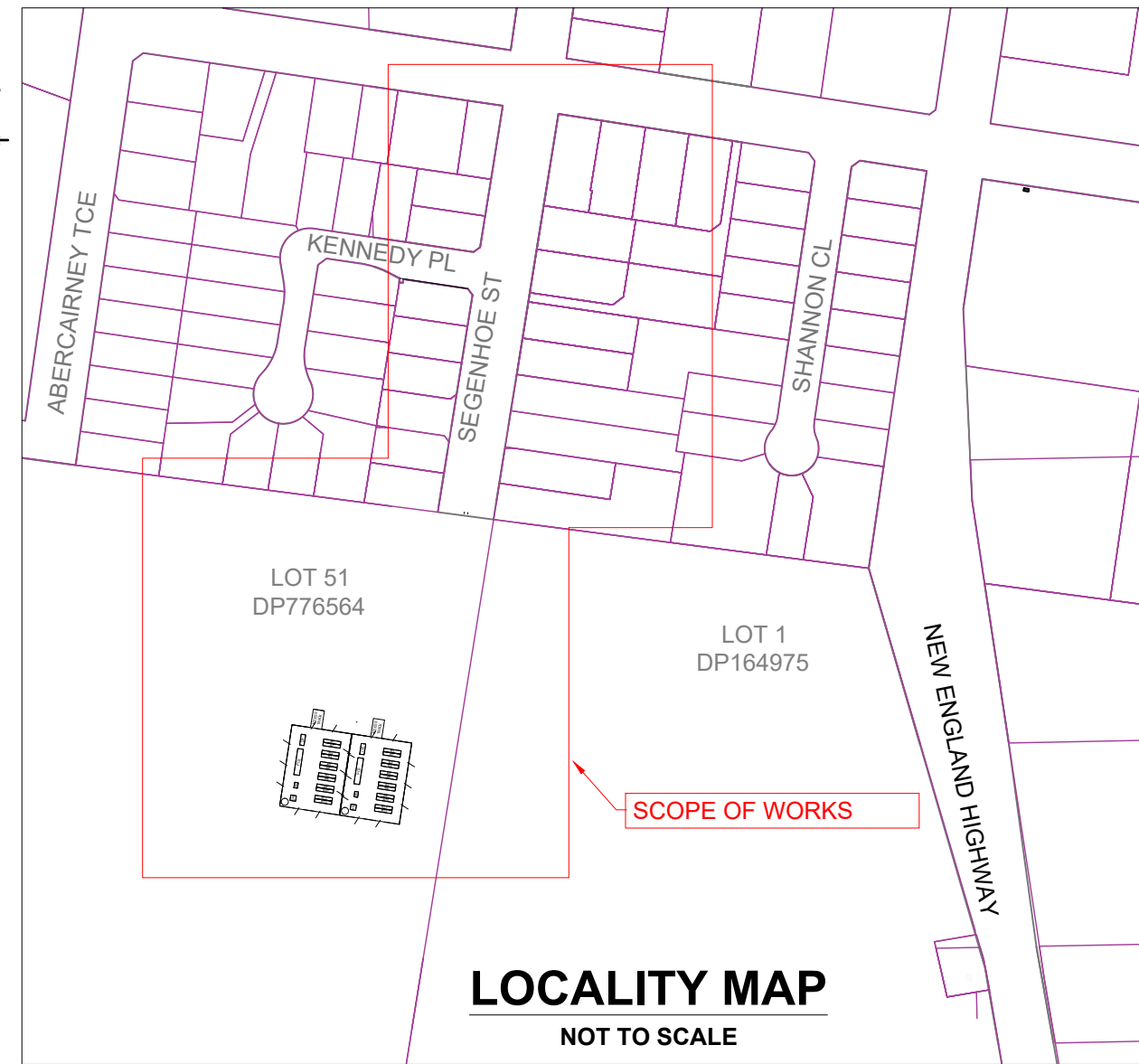


CHECK FOR OTHER SERVICES BEFORE BORING OR EXCAVATION. PHONE DIAL-BEFORE-YOU-DIG ON TELEPHONE 1100 OR AT www.byda.com.au

HVC DETAILS	
SUBSTATION NAME:	HVC ABERDEEN BESS 3
SUBSTATION NUMBER:	HC.37789
ADDRESS:	981 NEW ENGLAND HWY, ABERDEEN
SUBSTATION TYPE:	KR
SIZE (kVA):	N/A
VECTOR GROUP:	N/A
TAP SETTING:	N/A
HV SWITCHGEAR:	SCHNEIDER ELECTRIC RM6 RMICB
HV FUSE DETAILS:	N/A
LOAD CYCLE:	N/A
PHASING DETAIL:	N/A
CONFIGURE AS:	Dyn11: N/A
EARTHING REQUIREMENTS:	AS PER NS116 & SPECIFIC EARTHING DESIGN ON SHEET 5
HVC PIERING:	NS195 DRAWING NUMBER 258017
EASEMENT PLAN DETAIL:	AS PER SHEET 6



DESIGN NOTES

- THIS DRAWING TO BE READ IN CONJUNCTION WITH AND MUST COMPLY WITH AUSGRID'S NETWORK STANDARDS. REFER TO BUT NOT LIMITED TO: - NS104, NS113, NS116, NS130, NS156, NS114, NS127, NS129 & NS177.
- ALL SERVICE WORK TO BE DONE IN ACCORDANCE WITH AS3000:2007 AND THE N.S.W. SERVICE AND INSTALLATION RULES.
- ALL TRENCHING, PITS, CABLES & CONDUITS ARE TO BE SURVEYED MARKED, & PHOTOGRAPHED (INSPECTED BY COMPLIANCE OFFICER PRIOR TO BACKFILLING)
- CONSTRUCTOR IS TO ENSURE THAT ALL CABLES AND CONDUITS ARE INSTALLED RELATIVE TO FINAL LEVELS.
- DO NOT PLACE ANY RELIANCE ON ANY QUANTITIES OR DIMENSIONS GIVEN IN THIS DRAWING. QUANTITIES AND DIMENSIONS GIVEN IN THIS DRAWING ARE BASED ON DESIGN INFORMATION AND SITE CONDITIONS AT THE TIME OF DESIGN. AS QUANTITIES AND DIMENSIONS ARE SUBJECT TO CHANGE, THE BUILDER OF THIS PROJECT MUST CHECK ALL QUANTITIES AND DIMENSIONS ON THE SITE PRIOR TO TENDERING AND PRIOR TO CONSTRUCTION.
- THE PREPARATION OF THIS DESIGN, HAS BEEN UNDERTAKEN GIVING DUE CONSIDERATION TO THE EXISTING SERVICES. THE PROJECT CONSTRUCTOR IS, HOWEVER, WHOLLY RESPONSIBLE FOR VERIFYING THE EXACT LOCATION OF EXISTING SERVICES AND PERMANENT SURVEY MARKS BEFORE CONSTRUCTION COMMENCES, AND NO RESPONSIBILITY NOR LIABILITY WILL BE ACCEPTED BY THE DESIGNER OF THIS PROJECT FOR DAMAGE TO EXISTING SERVICES AS A RESULT OF THIS DESIGN.
- HAND EXCAVATION IS TO BE USED IN THE VICINITY OF EXISTING UNDERGROUND CONSTRUCTION.
- ALL CONDUITS ARE TO BE IN ACCORDANCE TO NS130.
- ACCREDITED DESIGNER TO BE CONTACTED REGARDING ISSUES RAISED WITH THIS DESIGN.
- CONSUMER MAINS LENGTH TO BE IN ACCORDANCE WITH AS3000.
- DUCT CONFIGURATIONS SHOWN ARE A GUIDE ONLY - REFER DBYD SEARCHES AND AUSGRID UNDERGROUND MAPS FOR MORE DETAIL.
- HV MAINS TO HAVE MIN 600mm COVER IN FOOTPATH & MIN 750mm COVER IN ROADWAY. LV MAINS TO HAVE MIN 500mm COVER IN FOOTPATH & MIN 750mm COVER IN ROADWAY.
- TELSTRA AND OPTUS TO BE NOTIFIED OF PROPOSED WORK PRIOR TO CONSTRUCTION:
CONTACTS:
TELSTRA: f0204107@team.telstra.com (EMAIL)
OPTUS: dartsnw@optus.com.au (EMAIL)
- EXCAVATION NEAR TREES TO BE DONE IN ACCORDANCE WITH AS4970.

GENERAL NOTES

- 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 ASP1 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 ASP1 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 ASP1 IS TO MAINTAIN ADEQUATE PUBLIC LIGHTING LEVELS FOR THE DURATION OF THE WORKS. IF NECESSARY, THE ASP1 IS TO ARRANGE FOR SUITABLE TEMPORARY STREET LIGHTING TO BE PROVIDED UNTIL PERMANENT LIGHTING IS RE-ESTABLISHED.
- THE ASP1 IS TO CO-ORDINATE THE MODIFICATION AND TESTING OF ANY REQUIRED PROTECTION RELAY WITH THE AUSGRID TECHNICAL SERVICES GROUP
- THE ASP1 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).
- THIS INFORMATION INCLUDES DATA FROM THE NSW DIGITAL CADASTRAL DATABASE BY LAND AND PROPERTY INFORMATION © 2016, USED UNDER CREATIVE COMMONS LICENCE VERSION 4.0.
- FOR IDENTIFICATION AND JOINTING PURPOSES, ALL CABLE ENDS SHALL BE LABELLED AT THE TERMINATION LOCATIONS AND IN JOINT BAYS DURING CABLE INSTALLATION. THE CABLES MUST BE LABELED AS PER CERTIFIED DESIGN DRAWING

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.



CHECK FOR OTHER SERVICES BEFORE BORING OR EXCAVATING
Tel: 1100 www.byda.com.au

- This design cannot be used for construction purposes until the location of all existing services is verified.
- The information provided in this design must be checked on site and the most current information on the configuration of all services, including ausgrid's network, must be verified immediately before construction commences by contacting dial-before-you-dig by telephone on 1100 or at www.byda.com.au.
- Dial-before-you-dig information must not be older than 20 business days at the time of construction.
- Check for other services before boring or excavating

CAD DRAWING		AMENDMENTS	
20160817	1	2	3
PROPOSED		EXISTING	
Pole		Pole-to be removed	
SL Standard		USL	
Pillar Standard		ABS	
LV Link		IDT	
Pillar		Kiosk Sub	
Streetlight		Chamber Sub	
Streetlight-PEC		Pole Sub	
Streetlight-replacement		Two Pole Sub	
PROPOSED		EXISTING	
UGOH Pot End		UGOH Pot End	
Joint		Joint	
Conduit		Conduit	
OH Lines		OH Lines	
UG Cables		UG Cables	
HV		HV	
LV		LV	
SL		SL	
SV		SV	
REMOVE		REMOVE	
OH lines		OH lines	
LV		LV	
SL		SL	
UG lines		UG lines	
Mains Section Change		Mains Section Change	
LV Links		LV Links	
OH Mains		OH Mains	
UG Mains		UG Mains	

ASSOCIATED DRAWINGS



345 George Street, Sydney, N.S.W. 2000
Ph (02) 9241 4188 Fax (02) 9241 4324
Email: sydney@northrop.com.au

ASP REF: SY230159 - R03 - STAGE 3

CERTIFICATION NUMBER

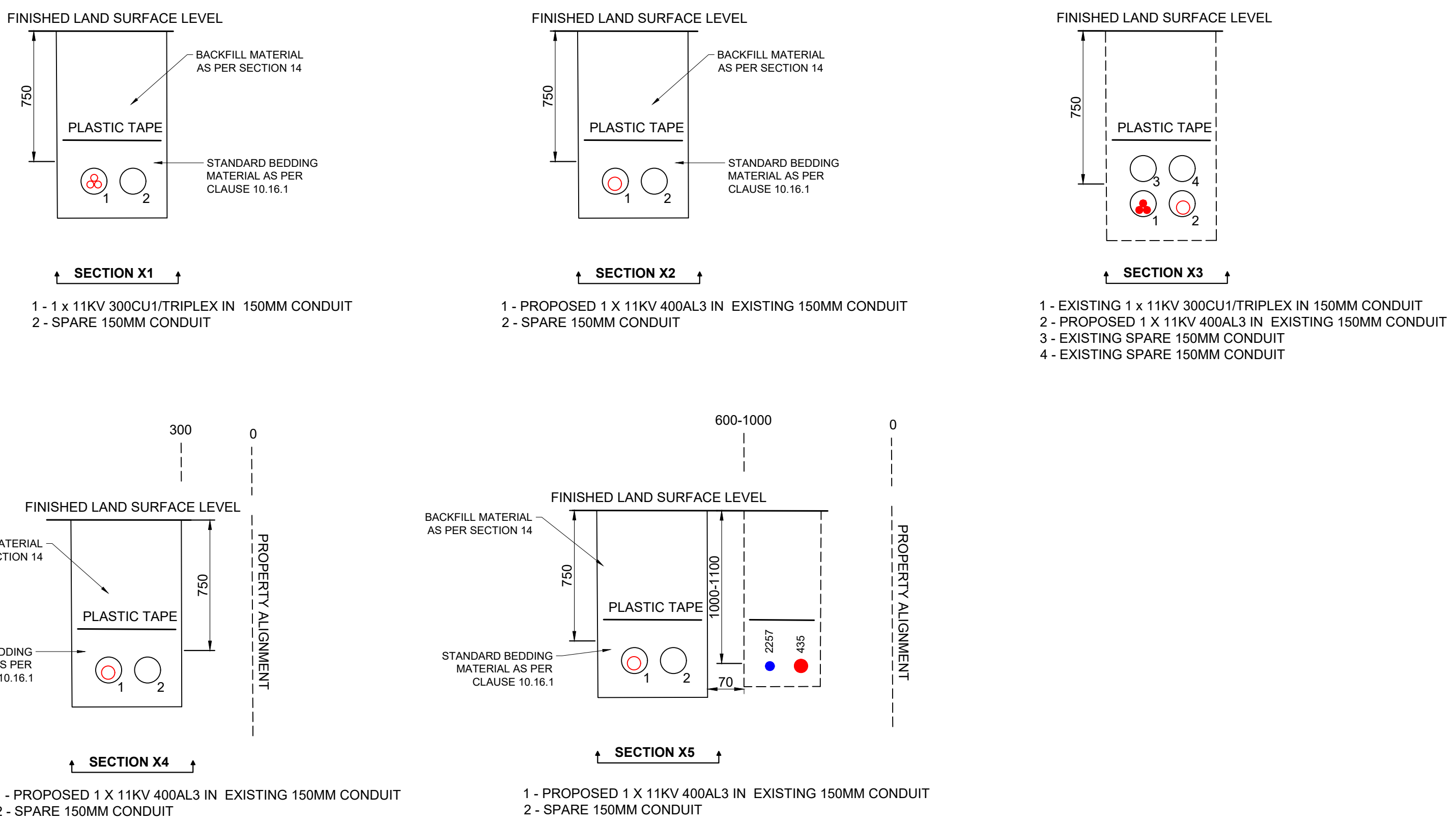
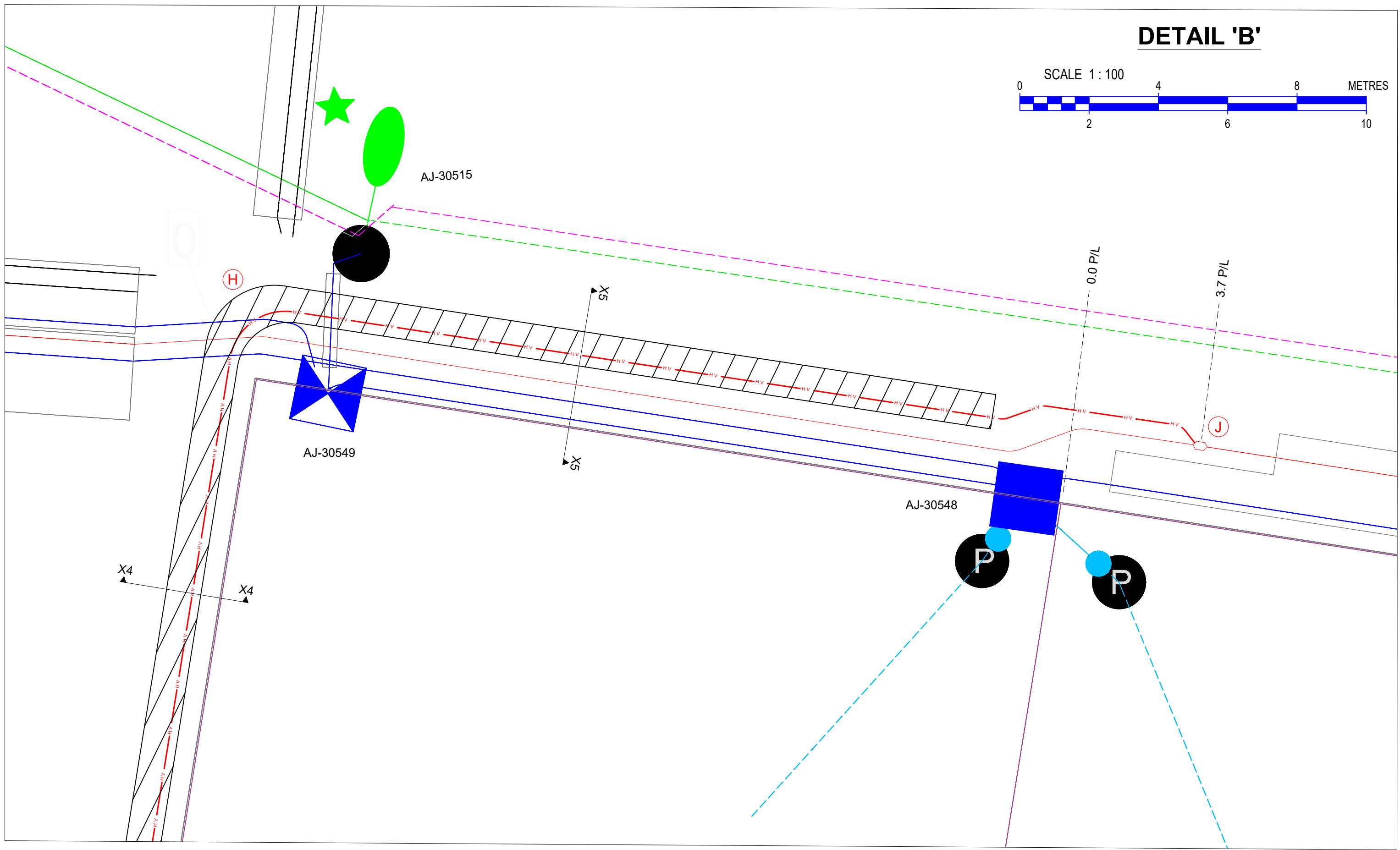
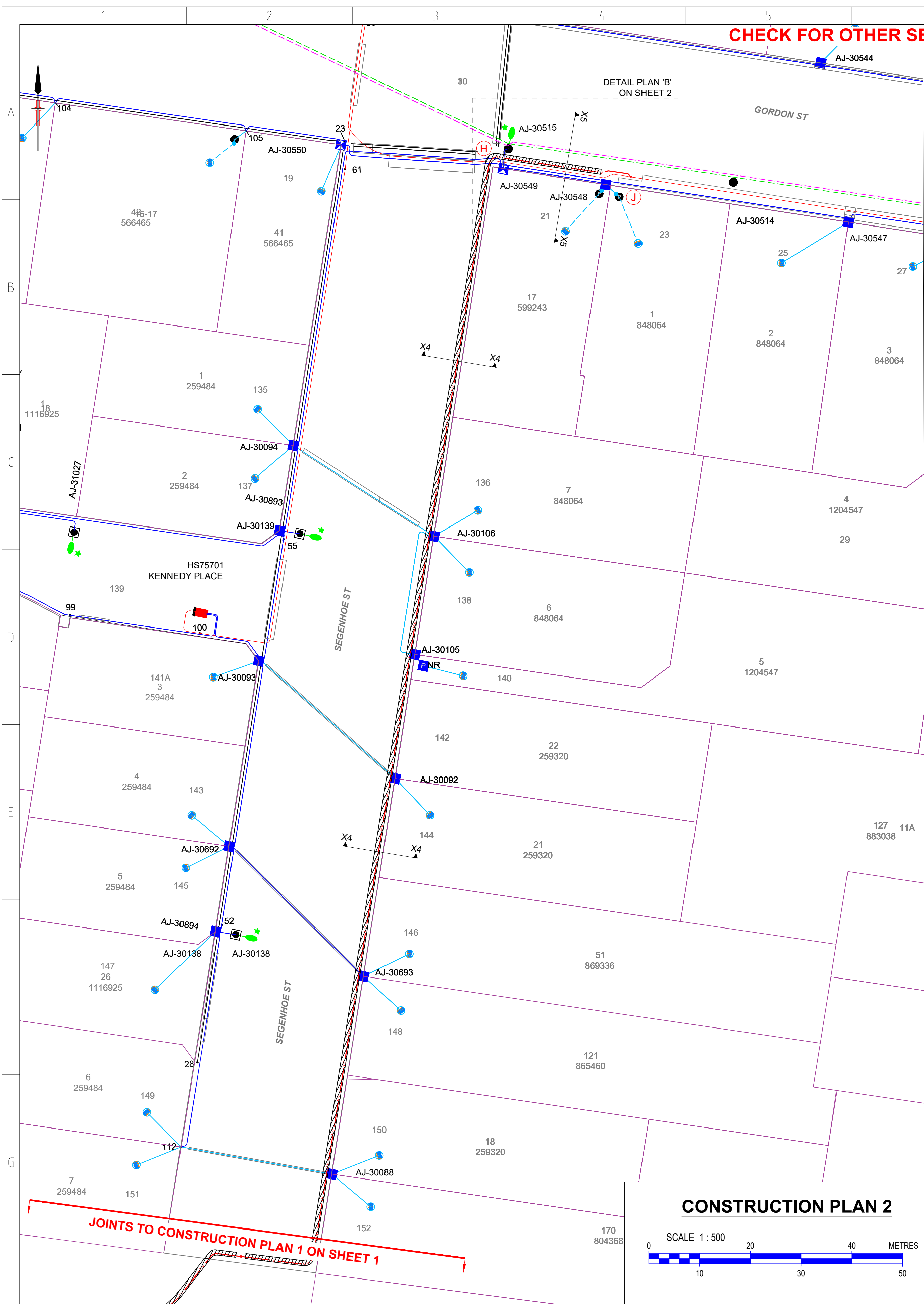
DESIGNED BY	Braj Dubey
AUTH NO.	2431
SUBMIT DATE	13.10.2023
LGA	MUSWELLBROOK
MAP REF.	UBD or STREET DIR. REF
AUSGRID REF.	AJ33/AJ44
PRJTRAK No.	XCW027936

/

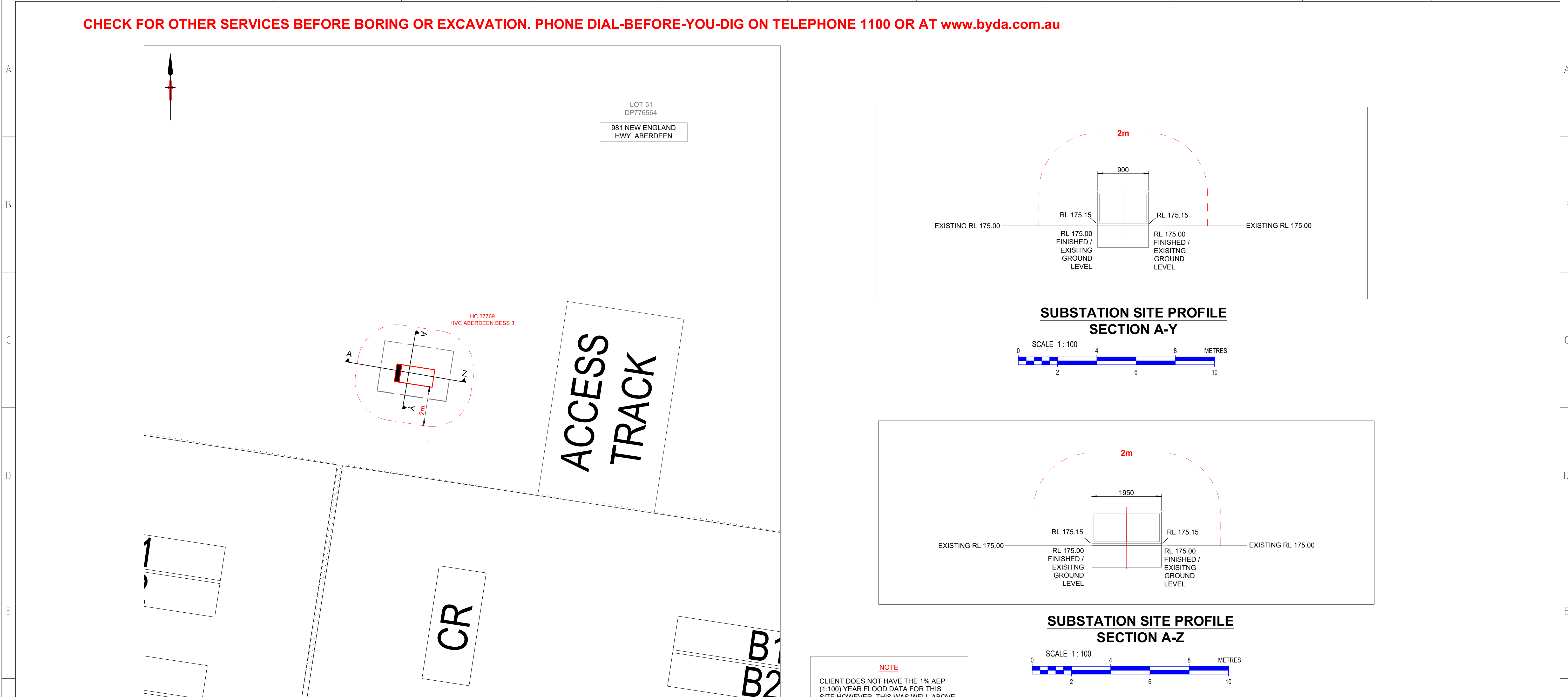
PROPOSED 11kV HVC FOR
FOR HV SUPPLY - STAGE 3
LOT 1 DP 776564
981 NEW ENGLAND HWY
ABERDEEN, NSW 2336

SIZE A1 AN-25361 1 of 6 0

CHECK FOR OTHER SERVICES BEFORE BORING OR EXCAVATION. PHONE DIAL-BEFORE-YOU-DIG ON TELEPHONE 1100 OR AT www.byda.com.au



H	CAD DRAWING AMENDMENTS	PROPOSED		EXISTING		PROPOSED		EXISTING		REMOVE		PROPOSED		EXISTING																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
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SUBSTATION VENTILATION & RESTRICTION ZONE NOTES:

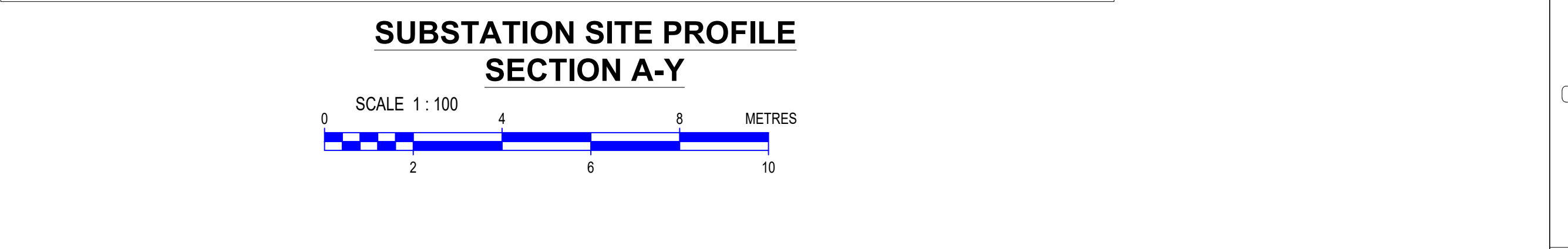
2m CLEARANCE:
ANY PORTION OF A BUILDING WITHIN 3 METRES OF KIOSK HOUSING IS
REQUIRED TO HAVE A FIRE RESISTANCE LEVEL (FRL) OF NOT LESS THAN
120/120/120. OPENABLE OR FIXED WINDOWS OR GLASS BLOCKWORK OR
SIMILAR ARE NOT PERMITTED WITHIN 3 METRES IN ANY DIRECTION FROM THE
HOUSING OF A KIOSK SUBSTATION, UNLESS THEY ARE SHELTERED BY A
NON-IGNITABLE BLAST RESISTING BARRIER.

**SUBSTATION VENTILATION &
RESTRICTION ZONE DIAGRAM**

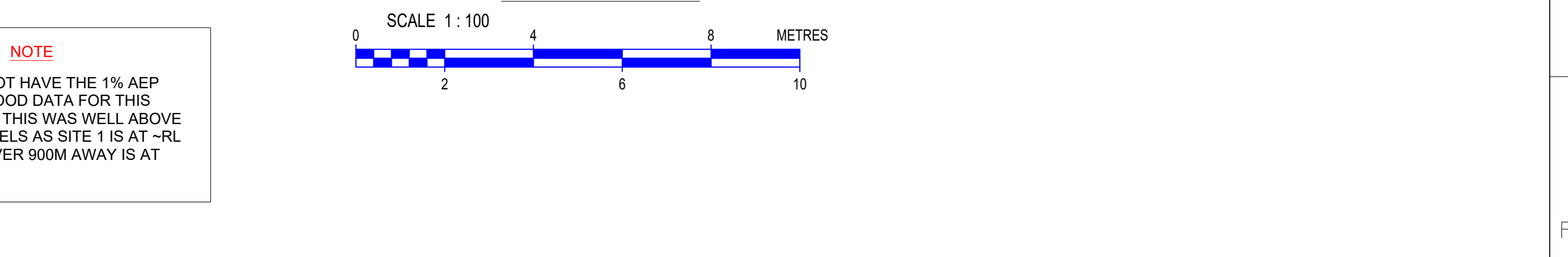
SCALE 1 : 100

0 4 8 METRES

THE RIVER 300M AWAY IS AT
~RL 160M.

[illegible]

The diagram illustrates a cross-section of a bridge structure. A dashed red arch spans a width of 2m. Below the arch is a rectangular opening with a width of 1950mm. The existing ground level is marked as RL 175.00 on both sides. The finished ground level is marked as RL 175.15 on both sides. The structure is shown as a rectangular block with a central opening.



NOTE

CLIENT DOES NOT HAVE THE 1% AEP (1:100) YEAR FLOOD DATA FOR THIS SITE HOWEVER, THIS WAS WELL ABOVE ANY FLOOD LEVELS AS SITE 1 IS AT ~RL 180 AND THE RIVER 900M AWAY IS AT ~RL 160M.

H	CAD DRAWING AMENDMENTS	<table><tr><td colspan="2">PROPOSED</td><td colspan="2">EXISTING</td><td colspan="2">PROPOSED</td><td colspan="2">EXISTING</td><td colspan="2">REMOVE</td><td colspan="2">PROPOSED</td><td colspan="2">EXISTING</td></tr><tr><td>Pole</td><td></td><td>Pole-to-be removed</td><td></td><td>UGOH</td><td></td><td>UGOH</td><td></td><td>UGOH</td><td></td><td>Pole Sub</td><td></td><td>Pole Sub</td><td></td></tr><tr><td>SL Standard</td><td></td><td>USL</td><td></td><td>Joint</td><td></td><td>Joint</td><td></td><td>Joint</td><td></td><td>Ground Sub</td><td></td><td>Ground Sub</td><td></td></tr><tr><td>Pillar Standard</td><td></td><td>ABS</td><td></td><td>Conduit</td><td></td><td>Conduit</td><td></td><td>Conduit</td><td></td><td>Node Point</td><td></td><td>Node Point</td><td></td></tr><tr><td>LV Pillar</td><td></td><td>IDT</td><td></td><td>OH Lines</td><td></td><td>UG Cables</td><td></td><td>OH Lines</td><td></td><td>Open Point</td><td></td><td>Open Point</td><td></td></tr><tr><td>LV Link Pillar</td><td></td><td>Kiosk Sub</td><td></td><td>-HV-</td><td></td><td>-HV-</td><td></td><td>-HV-</td><td></td><td>Mains Section Change</td><td></td><td>Mains Section Change</td><td></td></tr><tr><td>Streetlight</td><td></td><td>Chamber Sub</td><td></td><td>-LV-</td><td></td><td>-LV-</td><td></td><td>-LV-</td><td></td><td>LV Links</td><td></td><td>LV Links</td><td></td></tr><tr><td>Streetlight-PEC</td><td></td><td>Pole Sub</td><td></td><td>-SL-</td><td></td><td>-SL-</td><td></td><td>-SL-</td><td></td><td>OH Mains</td><td></td><td>OH Mains</td><td></td></tr><tr><td>Streetlight-replacement</td><td></td><td>Two Pole Sub</td><td></td><td>-SV-</td><td></td><td>-SV-</td><td></td><td>-SV-</td><td></td><td>Joints</td><td></td><td>Joints</td><td></td></tr><tr><td></td><td></td><td></td><td></td><td>★ LV ★ SL ★</td><td></td><td></td><td></td><td></td><td></td><td>UG Mains</td><td></td><td>UG Mains</td><td></td></tr></table>														PROPOSED		EXISTING		PROPOSED		EXISTING		REMOVE		PROPOSED		EXISTING		Pole		Pole-to-be removed		UGOH		UGOH		UGOH		Pole Sub		Pole Sub		SL Standard		USL		Joint		Joint		Joint		Ground Sub		Ground Sub		Pillar Standard		ABS		Conduit		Conduit		Conduit		Node Point		Node Point		LV Pillar		IDT		OH Lines		UG Cables		OH Lines		Open Point		Open Point		LV Link Pillar		Kiosk Sub		-HV-		-HV-		-HV-		Mains Section Change		Mains Section Change		Streetlight		Chamber Sub		-LV-		-LV-		-LV-		LV Links		LV Links		Streetlight-PEC		Pole Sub		-SL-		-SL-		-SL-		OH Mains		OH Mains		Streetlight-replacement		Two Pole Sub		-SV-		-SV-		-SV-		Joints		Joints						★ LV ★ SL ★						UG Mains		UG Mains		 345 George Street, Sydney, N.S.W. 2000 Ph: (02) 5041 4188 Fax: (02) 5041 4234 Email: nyproc@northrop.com.au		DESIGNED BY: Braj Dubey AUTH NO.: 2431 SUBMIT DATE: 13.10.2023 LGA: MUSWELLBROOK MAP REF: UBD or STREET DIR. REF. AUSGRID REF: AJ33/AJ44 PRJTRAK No: XCW027936		PROPOSED 11kV HVC FOR FOR HV SUPPLY - STAGE 3 LOT 1 DP 776564 981 NEW ENGLAND HWY ABERDEEN, NSW 2336		ASP REF: SY230159 - R03 - STAGE 3		CERTIFICATION NUMBER		## / ##		SIZE: A1 AUSGRID PROJECT No: AN-25361 SHEETS: 4 of 6 AMD: 0	
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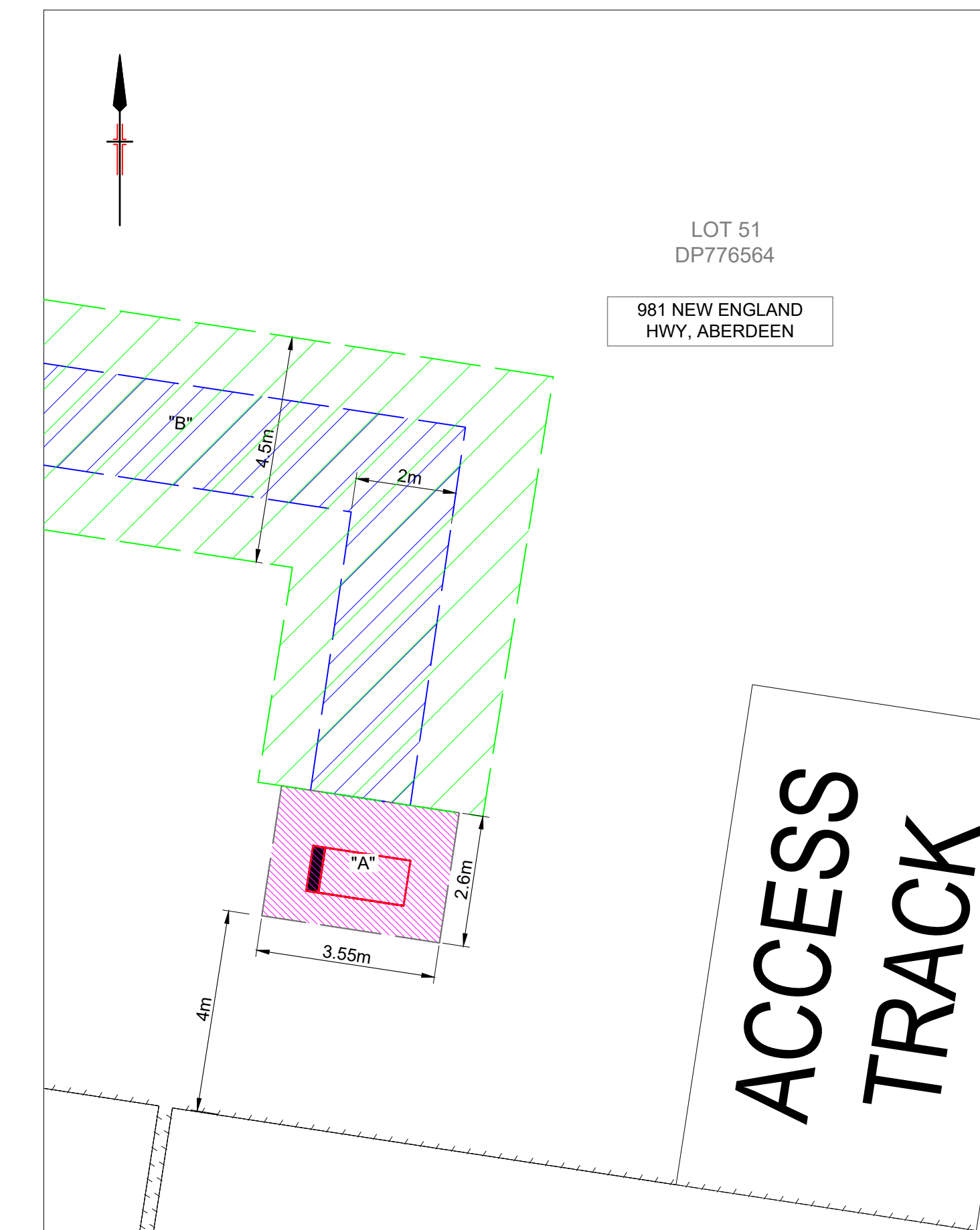
ASSOCIATED DRAWINGS			CERTIFICATION NUMBER		## / ##		SIZE A1	AUSGRID PROJECT No. AN-25361	SHEETS 4 of 6	AMD 0	
7	8	9	10	11	12						

Sydney
345 George Street, Ph (02) 9241 4188 P.O. Box H171
Sydney, N.S.W. 2000 Fax (02) 9241 4324 Australia Square, N.S.W. 121
Email: sydney@northrop.com.au ABN 81 084 433 100

ASP REF.	SY230159 - R03 - STAGE 3
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SIZE A1	AUSGRID PROJECT No. AN-25361	SHEETS 4 of 6	AMD. 0
11		12	

SIZE A1	AUSGRID PROJECT No. AN-25361	SHEETS 4 of 6	AMD. 0
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SCALE 1 : 250

0 5 10 15 20 METRES

-  "A" - EASEMENT FOR ELECTRICITY & OTHER PURPOSES 2.6m x 3.55 WIDE
-  "B" - EASEMENT FOR ELECTRICITY & OTHER PURPOSES 2.0m WIDE
-  "C" - RIGHT OF CARRIAGEWAY 4.5m WIDE

PROPOSED		EXISTING		PROPOSED		EXISTING		REMOVE		PROPOSED		EXISTING	
Pole			Pole-to-be removed			UGOH	Pole End		Pole End	OH Lines	Pole Sub		
SL Standard			USL			Joint	Sealed End		Sealed End	LV	Ground Sub		
Pillar Standard			ABS			Conduit				SL	Node Point		
LV Pillar			IDT			OH Lines	UG Cables		UG Cables	UG Lines	Open Point		
LV Link Pillar			Kiosk Sub			-HV-	-HV-			LV	Mains Section Change		
Streetlight			Chamber Sub			-LV-	-LV-			HV	LV Links		
Streetlight-PEC			Pole Sub			-SL-	-SL-			SL	OH Mains		
Streetlight-replacement			Two Pole Sub			-SV-	-SV-			HV	UG Mains		

ASSOCIATED DRAWINGS

 NORTHROP		DESIGNED BY Bray Dubey	
Sydney 345 George Street, Sydney, N.S.W. 2000 Fax (02) 9241 4188 sydney@northrop.com.au		2431 SUBMIT DATE 13.10.2023	
P.O. Box 1171 Australia Centre, N.S.W. 1515 A206 81 024 420 120		LGA MUSWELLBROOK	
		MAP REF U3D or STREET DIR. REF	
ASP REF. SY230159 - R03 - STAGE 3		AUDIT REF ABJ3/J44	
		PRJTRAK No. XCW027936	
CERTIFICATION NUMBER		## / ##	

PROPOSED 11kV HVC FOR
FOR HV SUPPLY - STAGE 3
LOT 1 DP 776564
981 NEW ENGLAND HWY
ABERDEEN, NSW 2336