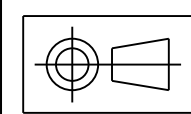


TOLERANCES UNLESS OTHERWISE SPECIFIED REFER DRAWING:

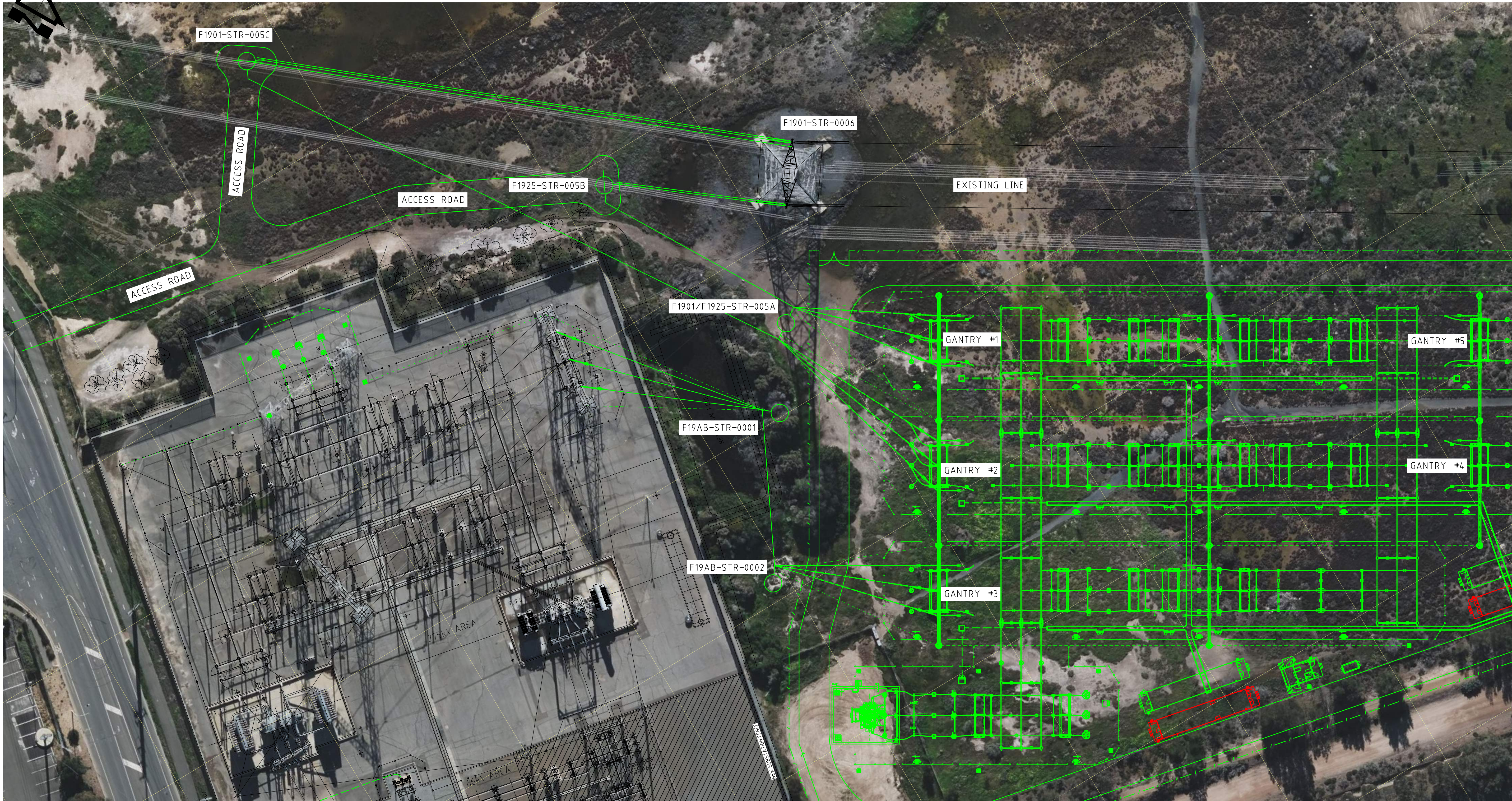


150

100

50

0mm



STRUCTURE COORDINATE TABLE
(MGA2020 ZONE 54)

POINT	EASTING (m)	NORTHING (m)	POINT	EASTING (m)	NORTHING (m)
GANTRY #1	272200.86	6148560.84	F1901-STR-005C	272108.00	6148678.00
GANTRY #2	272188.50	6148539.11	F1925-STR-005B	272158.00	6148621.00
GANTRY #3	272176.15	6148517.36	F1901/F1925-STR-005A	272176.00	6148579.00
GANTRY #4	272282.66	6148485.59	F19AB-STR-0001	272166.00	6148564.00
GANTRY #5	272295.02	6148507.32	F19AB-STR-0002	272148.00	6148535.00

- NOTES:
- ONLY EXISTING INFRASTRUCTURES IN VICINITY OF THE PROPOSED ROUTE ARE SHOWN ON PLAN.
 - STRUCTURE LOCATION ARE INDICATIVE ONLY.
 - THIS DRAWING SHALL BE READ IN CONJUNCTION WITH ENGINEERING CONTRACT SPECIFICATION 08327-ECS-002, 08327-ECS-007.
 - EXISTING CONDUCTOR AND SHIELD WIRE IN THE SPAN BETWEEN STRUCTURES F1901-STR-0005 AND F1901-STR-0006 SHALL BE TERMINATED AT THE NEW STRUCTURES F1901-STR-005C AND F1925-STR-005B.
 - NEW FEEDERS:
F1901: LEFEVRE EAST TO PARAFIELD GARDENS WEST
F1925: LEFEVRE EAST TO TORRENS ISLAND POWER STATION B
F19AB: LEFEVRE TO LEFEVRE EAST

- NEW MONOPOLE
- NEW GANTRY
- NEW CONDUCTOR
- NEW OVERHEAD EARTHWIRE
- EXISTING TOWER

CREATED FROM TEMPLATE:	REV	SUB TITLE
DRAWING WAS PREVIOUSLY:	REV	

ANI 275KV RELOCATION
- F1901, F1925, F19AB

A	EG.08327 FIRST ISSUE - ENET	MAP	ME	TP	09/25
REV	DETAILS OF REVISION	RVD	CKD	APD	DATE

LEGEND	
EXISTING ASSETS	
CURRENT S.O.W.	
THIRD PARTY S.O.W.	
FUTURE S.O.W.	
DECOMMISSIONING	

ELECTRANET
ISSUED FOR INFORMATION
25/09/2025 REVISION A,4
PROJECT #08327
SIGNED R. UPADHYAYA

DRN	M. PHILLIPS	09/25
CKD	M. ELDRIDGE	09/25
INSP	R. UPADHYAYA	09/25
AUTH	T. PATWA	09/25

electronet		TITLE	
PRELIMINARY LINE ROUTE LEFEVRE TO LEFEVRE EAST		LEFEVRE EAST TO PGW, LEFEVRE EAST TO TIPS B	
SCALE	1:400	A1	3 02250/500-001
REV	A	DISTB	



BUILDING LEGEND

FC FILING CABINET

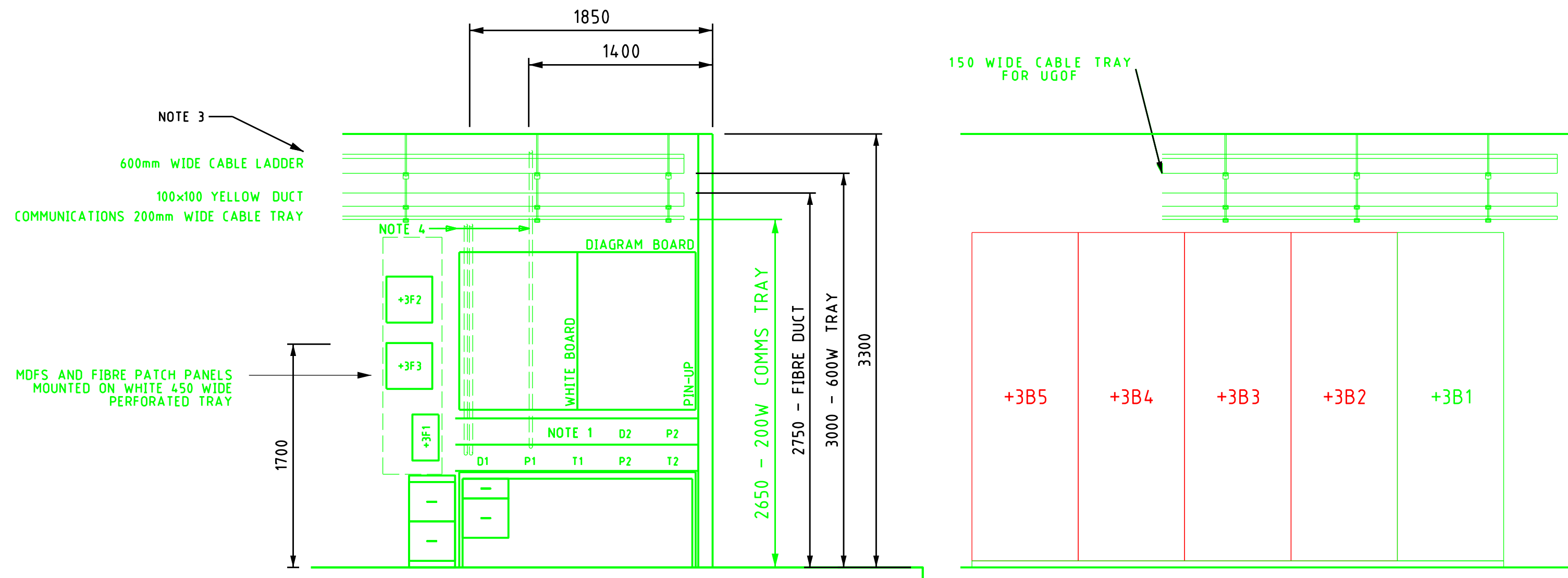
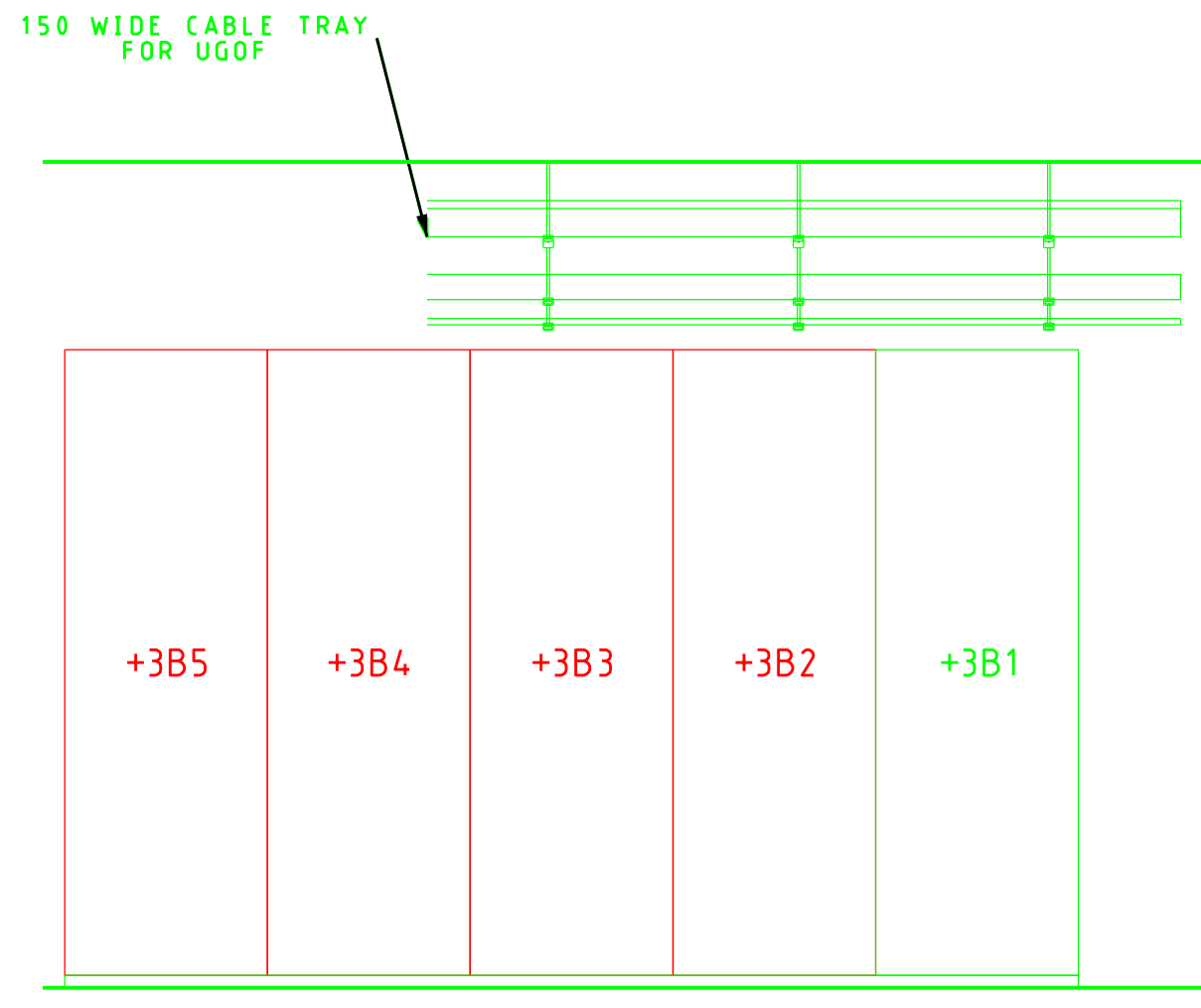
5.4KG CO2 FIRE EXTINGUISHER
C/W RECTANGULAR SIGN
AS PER AS2444

V1 VENT - OUTLET

D1 OPENING DOOR/DOORS

V2 VENT - INLET

GPS ANTENNA

DETAIL A
SCALE 1:30DETAIL B
SCALE 1:30

NOTES

- FOLLOWING ITEMS TO BE INSTALLED ON INTERNALLY-PARTITIONED NETWORK/TELEPHONES AND 230V AC WALL CABLE DUCT:
 - P1 2 x 2 WAY INVERTER OUTLETS - RED (TO HAVE WARNING LABEL, WHITE LETTERING ON RED BACKGROUND: "NOT FOR GENERAL USE") - SEE /144-002
 - P2 2 x 4 WAY GENERAL OUTLETS - WHITE (FROM AC DISTRIBUTION BOARD)
 - D1 1 x 2 WAY RJ45 SOCKETS - RED (SCADA NETWORK) - SEE /144-003
 - D2 1 x 4 WAY RJ45 SOCKETS - WHITE (SUBSTATION ETHERNET NETWORK)
 - T1 1 x 2 WAY RJ45 SOCKETS - WHITE (OPAX PHONES)
 - T2 1 x 2 WAY RJ45 SOCKETS - WHITE (PSTN PHONE & DATA/FAX)
- PANELS TO BE MOUNTED 50mm AWAY FROM WALL.
- 3 x DIAMETER 25mm WEATHER PROOF PENETRATIONS, 2850mm AFFL.
- DIAMETER 32mm WALL PENETRATIONS FOR CONCEALED WIRING:
 - 2 x PENETRATIONS AT 2850mm AFFL TO CARRY AC WIRING FROM ABOVE CABLE LADDER TO DUCT ABOVE DESK.
 - 1 x PENETRATION AT 2400mm AFFL TO CARRY FIBRE OPTIC FROM BELOW COMMS DUCT TO DUCT ABOVE DESK.
- UNDER/BOTTOM FLOOR CABLE ENTRY INTO FIELD MARSHALLING KIOSK FLOOR/PENETRATION CUTOUT 1000L X 500W CUTOUT WITH 400L X 200W X 5 THICK BRASS GLAND PLATE.
- FIRE EXTINGUISHER SIGNS ARE REQUIRED TO BE ABOVE THE FLOOR LEVEL BY A MINIMUM OF 2M.
- IF THERE MULTIPLE BUILDINGS PLANNED FOR THE SUBSTATION AND CONTAIN MORE THAN 2 TRANSFORMERS, IT WILL BE REQUIRED TO CONSIDER ONE MORE AVR CUBICLE IN THE BUILDING.
- AC SHUTDOWN RELAY AND LIGHT BOX SHOULD BE ABOVE THE HEIGHT OF THE DOOR (ONLY ACCESSIBLE BY A LADDER).
- THE INTERNAL WALL THICKNESS USED ON THIS TEMPLATE OF THE CONTROL BUILDING IS 120mm. CONTRACTOR TO DETERMINE FINAL WIDTH AS PART OF DETAILED DESIGN.
- THE CONTRACTOR IS RESPONSIBLE FOR CARRYING HEAT LOADING CALCULATIONS TO CONFIRM IF A THIRD AIR CONDITIONER IS REQUIRED.
- WALL MOUNTED 200mm WIDE LADDER RACK TO BE PROVIDED FOR FO CABLES.

ITEM	DESCRIPTION	REMARKS
+3A1	SPARE	
+3A2	WEST BUS PROTECTION CUBICLE	
+3A3	TORRENS ISLAND FEEDER PROTECTION CUBICLE	
+3A4	CB8204, CB8205 & CB8206 CBM CUBICLE	
+3A5	SCADA 3.2 CUBICLE	
+3A6	FIELD MARSHALLING KIOSK (FMK) (1200X800X2300)	
+3A7	PELICAN POINT 2 FEEDER PROTECTION CUBICLE	
+3A8	POWER SYSTEM PERFORMANCE MONITORING CUBICLE	
+3A9	OPSNET 'A' CUBICLE	
+3A10	OPSNET 'B' CUBICLE	
+3A11	SCADA 3.1 CUBICLE (STATION)	
+3B1	CB8204, CB8207 POINT OF WAVE CUBICLE	
+3B2	SPARE	
+3B3	SPARE	
+3B4	SPARE	
+3B5	SPARE	
+3B6	WIDE AREA MONITORING SYSTEM CUBICLE	
+3B7	SPARE	
+3B8	EAST BUS PROTECTION CUBICLE	
+3B9	PARAFIELD GARDENS WEST FEEDER PROTECTION CUBICLE	
+3B10	CB8207, CB8208 & CB8209 CBM CUBICLE	
+3B11	SCADA 3.3 CUBICLE	
+3B12	FIELD MARSHALLING KIOSK (FMK) (1200X800X2300)	
+3B13	PELICAN POINT 1 FEEDER PROTECTION CUBICLE	
+3B14	SPARE	
+3B15	REVENUE AND CHECK METERING CUBICLE FUTURE	
+3B16	SPARE	
+3B17	SPARE	
+3B18	PELICAN POINT CABLE CUBICLE 1	
+3B19	PELICAN POINT CABLE CUBICLE 2	
+3B20	MASTER SECURITY CUBICLE	
+3C1	110V DC SET 1 BATTERY	
+3C2	110V DC SET 1 & 2 DISTRIBUTION BOARD & BATTERY CHARGER (800x800)	
+3C3	110V DC SET 2 BATTERY	
+3C10	ESSENTIAL AC SUB DB	
+3C21	AIR CONDITIONER No.1 OUTDOOR UNIT	
+3C22	AIR CONDITIONER No.1 INDOOR UNIT	
+3C23	AIR CONDITIONER No.2 OUTDOOR UNIT	
+3C24	AIR CONDITIONER No.2 INDOOR UNIT	
+3F1	TELEPHONE MDF-A CABINET	
+3F2	FIBRE OPTIC CABLE JUNCTION BOX 1	
+3F3	FIBRE OPTIC CABLE JUNCTION BOX 2	

- MINIMUM 2 CUBICLE SPACES ARE REQUIRED FOR PROTECTION CHANGE OVER DURING LIFE OF THE BUILDING.
- EACH BUILDING MUST HAVE A SEPERATE LIGHTING AND POWER DB.

SECURITY LEGEND

- (S) SMOKE DETECTOR
- (SC) INTERNAL SIREN
- (TS) TEMPERATURE SENSOR
- (D) DOOR SWITCH
- (SI) EXTERNAL SIREN
- (ST) STROBE
- (CP) CODEPAD
- (ES) ELECTRIC STRIKE
- (CR) CARD READER
- (PIR) PASSIVE INFRA RED SENSOR
- (PC) PTZ CAMERA
- (FC) FIXED CAMERA
- (AK) AIRCON KILL SWITCH
- (LK) LIGHTING KILL SWITCH
- (CL) CYBERLOCK
- (RL) RED LABEL

SECURITY NOTES

- INTERNAL LIGHTS LINKED TO ARM/DISARM.
- AIRCON KILL IN EVENT OF FIRE ALARM.
- TEMP SENSORS WIRED TO SCADA PANEL.
- ALL DOOR HARDWARE CONFIGURED SUCH THAT THE KEY WILL RETRACT TONGUE ONLY

FOR ELECTRICAL LAYOUT REFER: 410 SSD/303-001
FOR SECURITY AND FIRE REFER: 410 SSD/303-002
FOR PLAN AND ELEVATION REFER: 410 SSD/691-001
FOR MASTER CAD FILE REFER: 410 SSD/301-M01

REV	DETAILS OF REVISION	RVD	CKD	APD	DATE
A	EG.08327 FIRST ISSUE - ENET	MAP	JA	TP	09/25

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LEGEND
EXISTING ASSETS
CURRENT S.O.W.
THIRD PARTY S.O.W.
FUTURE S.O.W.
DECOMMISSIONING

ELECTRANET
ISSUED FOR INFORMATION
30/09/2025 REVISION A.11
PROJECT #08327
SIGNED J. SANCHEZ-NIETO

CREATED FROM TEMPLATE: 410 SSD/301-001	REV B	SUB TITLE
DRAWING WAS PREVIOUSLY:	REV	

DRN	M. PHILLIPS	09/25
CKD	J. AHMED	09/25
INSP	J. SANCHEZ-NIETO	09/25
AUTH	T. PATWA	09/25

TITLE		PRELIMINARY CONTROL BUILDING LAYOUT LEFEVRE EAST SUBSTATION	
SCALE	1:40	A1 310 00Q/310-002	REV A

BUILDING LEGEND

FC FILING CABINET

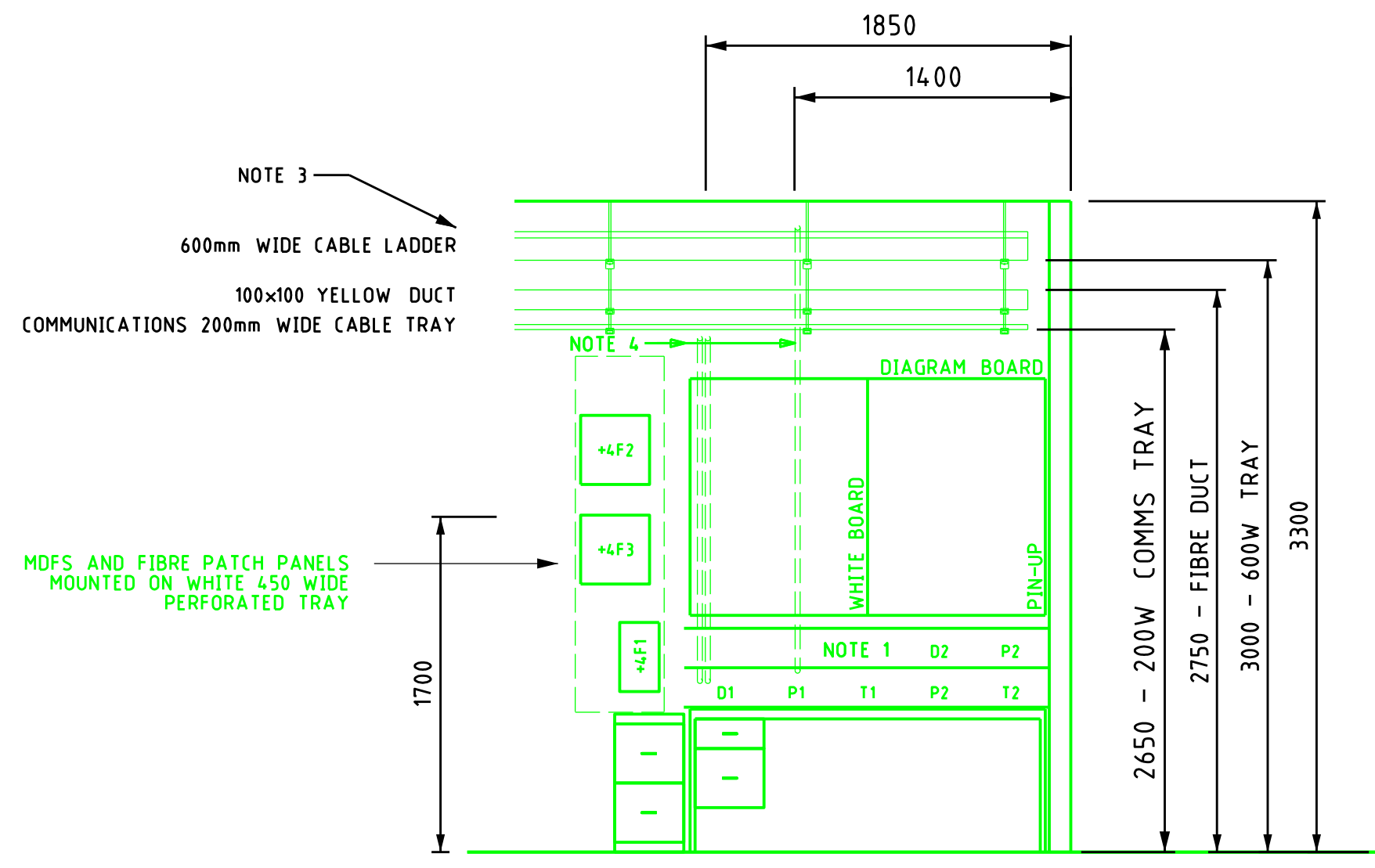
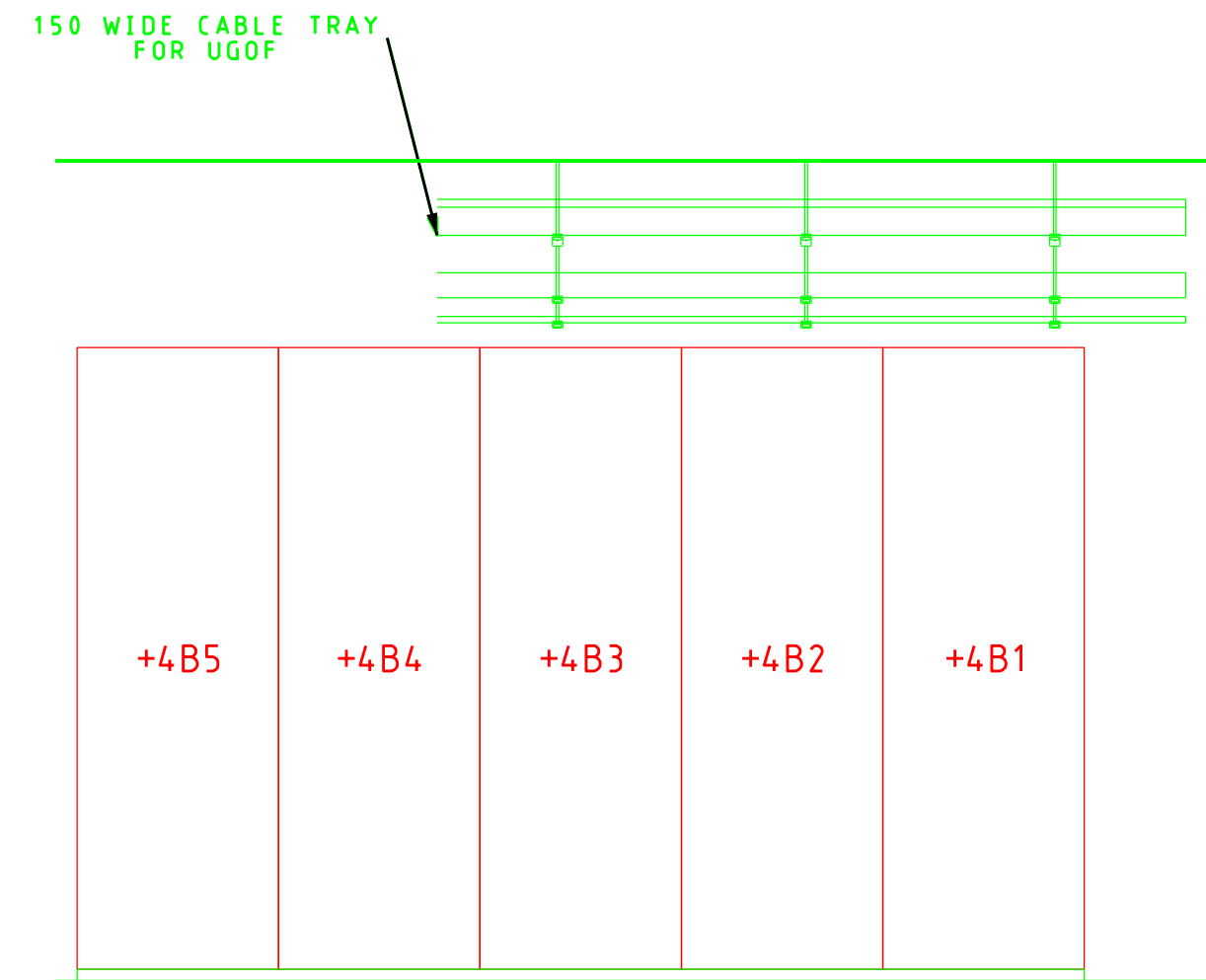
5.4KG CO2 FIRE EXTINGUISHER
C/W RECTANGULAR SIGN
AS PER AS2444

V1 VENT - OUTLET

D1 OPENING DOOR/DOORS

V2 VENT - INLET

GPS ANTENNA

DETAIL A
SCALE 1:30DETAIL B
SCALE 1:30

NOTES

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 - 1 x PENETRATION AT 2400mm AFFL TO CARRY FIBRE OPTIC FROM BELOW COMMS DUCT TO DUCT ABOVE DESK.
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- AC SHUTDOWN RELAY AND LIGHT BOX SHOULD BE ABOVE THE HEIGHT OF THE DOOR (ONLY ACCESSIBLE BY A LADDER).
- THE INTERNAL WALL THICKNESS USED ON THIS TEMPLATE OF THE CONTROL BUILDING IS 120mm. CONTRACTOR TO DETERMINE FINAL WIDTH AS PART OF DETAILED DESIGN.
- THE CONTRACTOR IS RESPONSIBLE FOR CARRYING HEAT LOADING CALCULATIONS TO CONFIRM IF A THIRD AIR CONDITIONER IS REQUIRED.
- WALL MOUNTED 200mm WIDE MADDER RACK TO BE PROVIDED FOR FO CABLES.

ITEM	DESCRIPTION	REMARKS
+4A1	SPARE	
+4A2	WEST BUS REACTOR PROTECTION CUBICLE	
+4A3	LEFEVRE FEEDER PROTECTION CUBICLE	
+4A4	CB8210 AND CB8211 CBM CUBICLE	
+4A5	SCADA 4.2 CUBICLE	
+4A6	FIELD MARSHALLING KIOSK (FMK) (1200X800X2300)	
+4A7	SPARE	
+4A8	POWER SYSTEM PERFORMANCE MONITORING CUBICLE	
+4A9	OPSNET 'A' CUBICLE	
+4A10	OPSNET 'B' CUBICLE	
+4A11	SCADA 4.1 CUBICLE (STATION)	
+4B1	SPARE	
+4B2	SPARE	
+4B3	SPARE	
+4B4	SPARE	
+4B5	SPARE	
+4B6	PHASOR MEASUREMENT UNIT CUBICLE 1	
+4B7	SPARE	
+4B8	SPARE	
+4B9	SPARE	
+4B10	SPARE	
+4B11	SCADA 4.3 CUBICLE	
+4B12	FIELD MARSHALLING KIOSK (FMK) (1200X800X2300)	
+4B13	SPARE	
+4B14	SPARE	
+4B15	REVENUE AND CHECK METERING CUBICLE FUTURE	
+4B16	SPARE	
+4B17	SPARE	
+4B18	SPARE	
+4B19	SPARE	
+4B20	SLAVE SECURITY CUBICLE	
+4C1	110V DC SET 1 BATTERY	
+4C2	110V DC SET 1 & 2 DISTRIBUTION BOARD & BATTERY CHARGER (800x800)	
+4C3	110V DC SET 2 BATTERY	
+4C10	ESSENTIAL AC SUB DB	
+4C21	AIR CONDITIONER No.1 OUTDOOR UNIT	
+4C22	AIR CONDITIONER No.1 INDOOR UNIT	
+4C23	AIR CONDITIONER No.2 OUTDOOR UNIT	
+4C24	AIR CONDITIONER No.2 INDOOR UNIT	
+4F1	TELEPHONE MDF-A CABINET	
+4F2	FIBRE OPTIC CABLE JUNCTION BOX 1	
+4F3	FIBRE OPTIC CABLE JUNCTION BOX 2	

- MINIMUM 2 CUBICLE SPACES ARE REQUIRED FOR PROTECTION CHANGE OVER DURING LIFE OF THE BUILDING.
- EACH BUILDING MUST HAVE A SPERATE LIGHTING AND POWER DB.

SECURITY LEGEND

- (S) SMOKE DETECTOR
- (SC) INTERNAL SIREN
- (TS) TEMPERATURE SENSOR
- (D) DOOR SWITCH
- (SI) EXTERNAL SIREN
- (ST) STROBE
- (CP) CODEPAD
- (ES) ELECTRIC STRIKE
- (CR) CARD READER
- (PIR) PASSIVE INFRA RED SENSOR
- (PC) PTZ CAMERA
- (FC) FIXED CAMERA
- (AK) AIRCON KILL SWITCH
- (LK) LIGHTING KILL SWITCH
- (CL) CYBERLOCK
- (RL) RED LABEL

SECURITY NOTES

- INTERNAL LIGHTS LINKED TO ARM/DISARM.
- AIRCON KILL IN EVENT OF FIRE ALARM.
- TEMP SENSORS WIRED TO SCADA PANEL.
- ALL DOOR HARDWARE CONFIGURED SUCH THAT THE KEY WILL RETRACT TONGUE ONLY

FOR ELECTRICAL LAYOUT REFER: 410 SSD/303-001
FOR SECURITY AND FIRE REFER: 410 SSD/303-002
FOR PLAN AND ELEVATION REFER: 410 SSD/691-001
FOR MASTER CAD FILE REFER: 410 SSD/301-M01

CREATED FROM TEMPLATE: 410 SSD/301-001
DRAWING WAS PREVIOUSLY:

LEGEND
EXISTING ASSETS
CURRENT S.O.W.
THIRD PARTY S.O.W.
FUTURE S.O.W.
DECOMMISSIONING

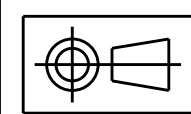
ELECTRANET
ISSUED FOR INFORMATION
26/09/2025 REVISION A,10
PROJECT #08327
SIGNED

DRN	M. PHILLIPS	09/25
CKD	J. AHMED	09/25
INSP	J. SANCHEZ-NIETO	09/25
AUTH	T. PATWA	09/25

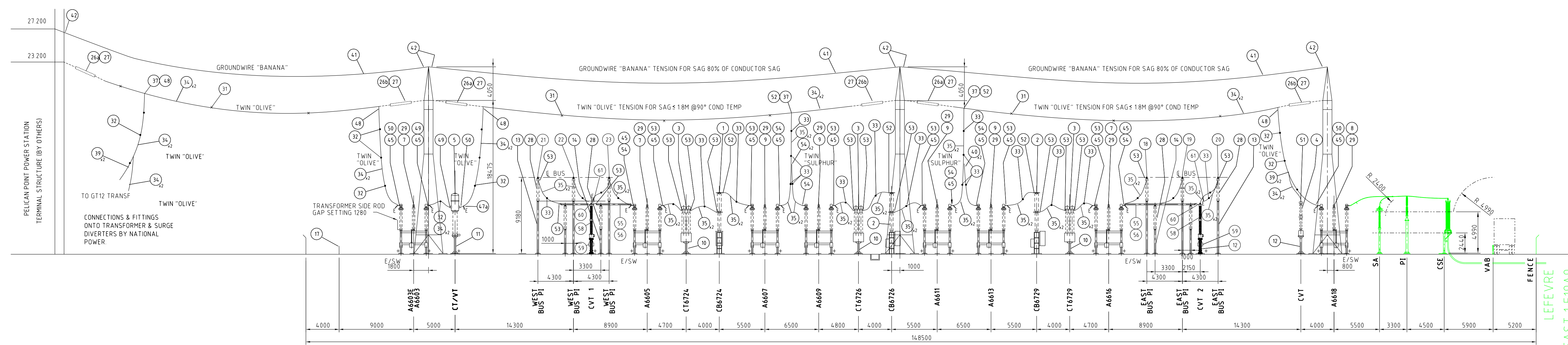
REV	B	SUB TITLE
REV		
+4 CONTROL BUILDING		
PRELIMINARY CONTROL BUILDING LAYOUT LEFEVRE EAST SUBSTATION		
SCALE	1:40	A1 310 00Q/310-003
REV	A	DISTB

DO NOT SCALE DRAWINGS FOR WORKING DIMENSIONS

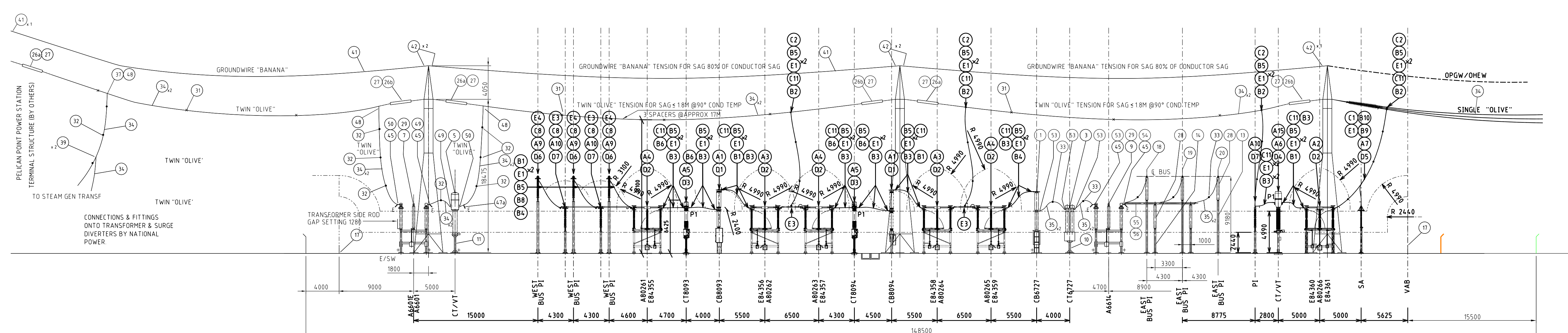
TOLERANCES UNLESS OTHERWISE SPECIFIED REFER DRAWING:



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SECTION A
SCALE 1:250
006



SECTION B
SCALE 1:250
006

LEGEND:

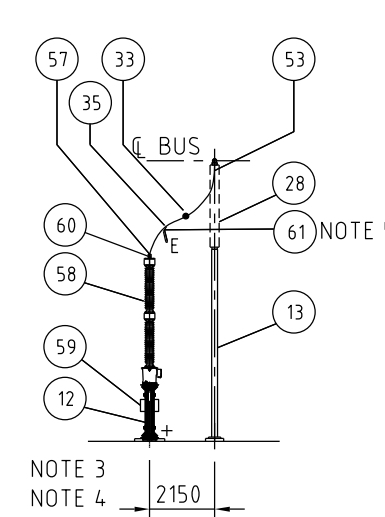
- E EARTH RING (45) (47) (48)
- CONDUCTOR SPACER ON DROPPER & INTERPLANT CONNECTIONS
 - "OLIVE" : 83mm CENTRES
 - "SULPHUR" : 83mm CENTRES
- x CONDUCTOR SPACER ON STRUNG CONDUCTOR
 - "OLIVE" & "SULPHUR" 200-300mm CENTRES
- + EARTH LUG

- NOTE:
- ALLOW 200 - 300mm CONDUCTOR SLACK FOR INTERPLANT CONNECTION
 - TWO PARALLEL GROOVE CLAMPS REQUIRED PER PARALLEL GROOVE ASSEMBLY
 - THE CONTRACTOR SHALL INSTALL A CLEARLY VISIBLE LABEL ON THE CVT NEUTRAL CONNECTION STATING "DANGER, NEUTRAL, DO NOT REMOVE"
 - THE CONTRACTOR SHALL MODIFY THE EXISTING EARTH STRAP TO THE EXISTING CVT TANK. A NEW 4x40mm TINNED COPPER EARTH STRAP EXTENSION SHALL BE BRAISED OF EXOTHERMICALLY WELDED TO THE EXISTING EARTH STRAP. THE NEW EXTENSION SHALL BE BOLTED TO THE NEW CVT EARTH TERMINAL (CABLE CLAMP SECTION TO BE REMOVED)
 - STIRRUP TO BE LOCATED APPROXIMATELY 1 METRE FROM THE CVT TERMINAL

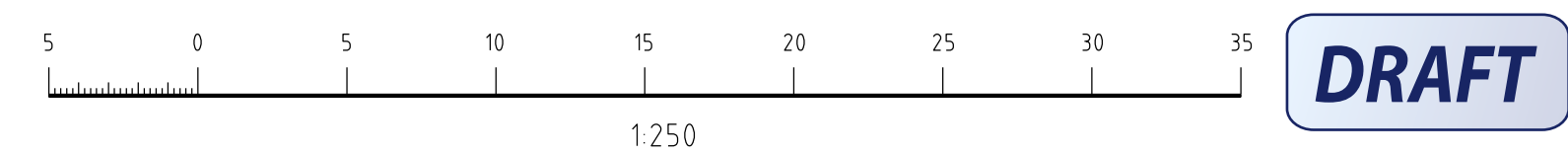
NOTES CONTINUED.

- LINE DESIGN TO BE CONFIRMED AT CRITICAL DESIGN.
- FOR BUS BAR MATERIALS AND DETAILS SEE DRAWING 310 193/602-003 & 004.
- FOR SUBSTATION MATERIALS SEE DRAWING 310 193/622-101 & 102.
- CIRCUIT BREAKERS TO BE CONNECTED AS FOLLOWS:
 - LA TO 'U' PHASE
 - LB TO 'V' PHASE
 - LC TO 'W' PHASE

SECTION C
SCALE 1:250
001



NOTE:
V-STRING SUSPENSION INSULATOR ASSEMBLIES
USED FOR SECTION B CENTRE GANTRY NOT REFLECTED IN AS BUILTS



CREATED FROM TEMPLATE: 310 193/622-002				REV M	SUB-TITLE							
DRAWING WAS PREVIOUSLY:				REV	ANI 275KV RELOCATION							
CTRANET FOR INFORMATION 5 REVISION A, 5 PROJECT #08327				DRN	M. PHILLIPS		ElectraNet - electricity transmission					
				CKD	J. AHMED		PRELIMINARY ELEVATION SECTION					
				INSP	J. SANCHEZ-NIETO		PELICAN POINT SUBSTATION					
				AUTH	T. PATWA		SCALE	1:250	A1	310 193/608-003	REV A	DISTB

A 08327 FIRST ISSUE - ENET				MAP	JA	TP
REV				RVD	CKD	APD
DETAILS OF REVISION				DATE		

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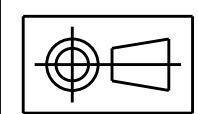
LEGEND	
EXISTING ASSETS	—
CURRENT S.O.W.	—
THIRD PARTY S.O.W.	—
FUTURE S.O.W.	—
DECOMMISSIONING	—

ELECTRANET
ISSUED FOR INFORMATION
25/09/2025 REVISION A,5
PROJECT #08327
SIGNED _____

DRN	M. PHILLIPS
CKD	J. AHMED
INSP	J. SANCHEZ-NIETO
AUTH	T. PATWA

TITLE		SCALE		REV		DISTB	
		1:250		A			

TOLERANCES UNLESS OTHERWISE SPECIFIED REFER DRAWING:

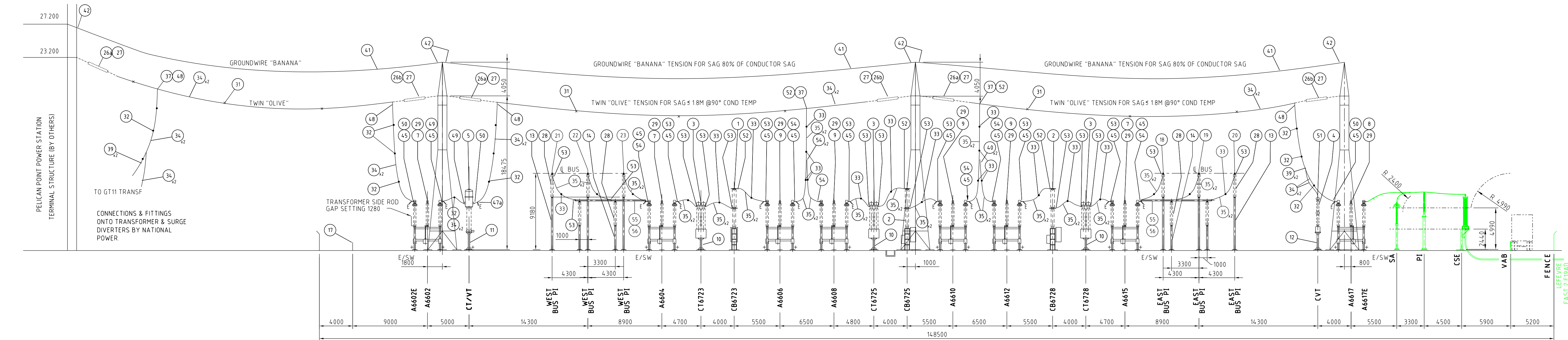


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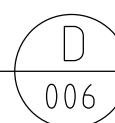
100

50

0mm



SCALE 1:250

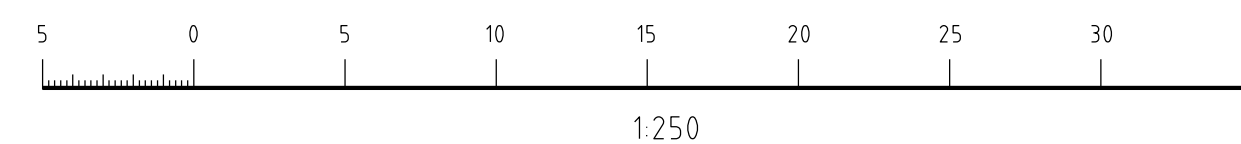


NOTE:

- ALLOW 200 - 300mm CONDUCTOR SLACK FOR INTERPLANT CONNECTION
- TWO PARALLEL GROOVE CLAMPS REQUIRED PER PARALLEL GROOVE ASSEMBLY
- THE CONTRACTOR SHALL INSTALL A CLEARLY VISIBLE LABEL ON THE CVT NEUTRAL CONNECTION STATING "DANGER, NEUTRAL, DO NOT REMOVE". THE CONTRACTOR SHALL MODIFY THE EXISTING EARTH STRAP TO THE EXISTING CVT TANK. A NEW 4x40mm TINNED COPPER EARTH STRAP EXTENSION SHALL BE BRAISED OR EXOTHERMICALLY WELDED TO THE EXISTING EARTH STRAP. THE NEW EXTENSION SHALL BE BOLTED TO THE NEW CVT EARTH TERMINAL (CABLE CLAMP SECTION TO BE REMOVED)
- STIRRUP TO BE LOCATED APPROXIMATELY 1 METRE FROM THE CVT TERMINAL
- LINE DESIGN TO BE CONFIRMED AT CRITICAL DESIGN.
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- FOR SUBSTATION MATERIALS SEE DRAWING 310 193/622-101 & 102.
- CIRCUIT BREAKERS TO BE CONNECTED AS FOLLOWS:
LA TO 'U' PHASE
LB TO 'V' PHASE
LC TO 'W' PHASE
- V-STRING SUSPENSION INSULATOR ASSEMBLIES USED FOR SECTION B CENTRE GANTRY NOT REFLECTED IN AS BUILTS
- THIS DRAWING IS CREATED FOR NOTI - 10404883.

LEGEND:

- E EARTH RING (45) (47) (47a)
- CONDUCTOR SPACER ON DROPPER & INTERPLANT CONNECTIONS
 - "OLIVE" : 83mm CENTRES
 - "SULPHUR" : 83mm CENTRES
- CONDUCTOR SPACER ON STRUNG CONDUCTOR
 - "OLIVE" & "SULPHUR" : 200-300mm CENTRES
- EARTH LUG



DRAFT

CREATED FROM TEMPLATE: 310 193/622-007
DRAWING WAS PREVIOUSLY:

REV A SUB-TITLE
REV

SECTION D-D ANI 275KV RELOCATION

ElectraNet - electricity transmission

PRELIMINARY ELEVATION SECTION PELICAN POINT SUBSTATION

SCALE 1:250 A1 310 193/608-004 REV A DISTB

REV	DETAILS OF REVISION	RVD	CKD	APD	DATE
A	08327 FIRST ISSUE - ENET	MAP	JA	TP	

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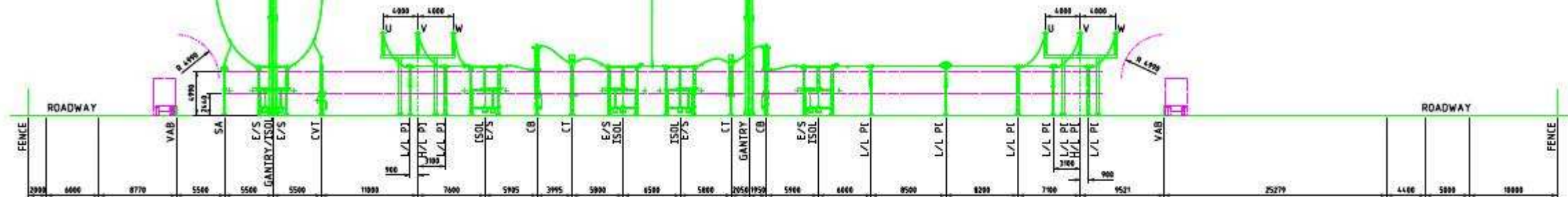
LEGEND	
EXISTING ASSETS	_____
CURRENT S.O.W.	_____
THIRD PARTY S.O.W.	_____
FUTURE S.O.W.	_____
DECOMMISSIONING	_____

ELECTRANET
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25/09/2025 REVISION A.5
PROJECT #08327
SIGNED _____

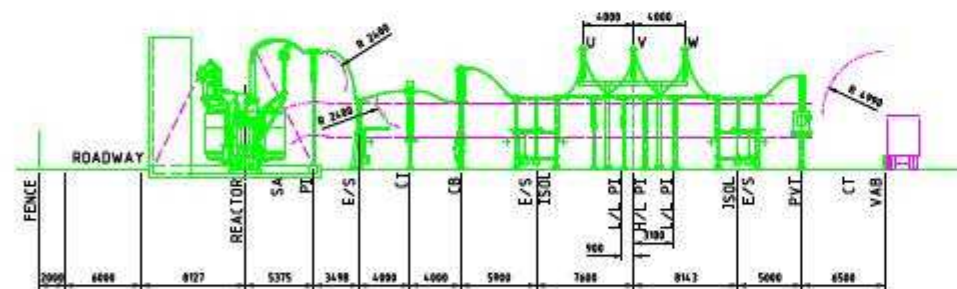
DRN	M. PHILLIPS
CKD	J. AHMED
INSP	J. SANCHEZ-NIETO
AUTH	T. PATWA

DO NOT SCALE DRAWINGS FOR WORKING DIMENSIONS

LEFEVRE
F19AB



ELEVATION +C03



ELEVATION +C04

NOTE

+ INDICATES MAINTENANCE EARTH POINT

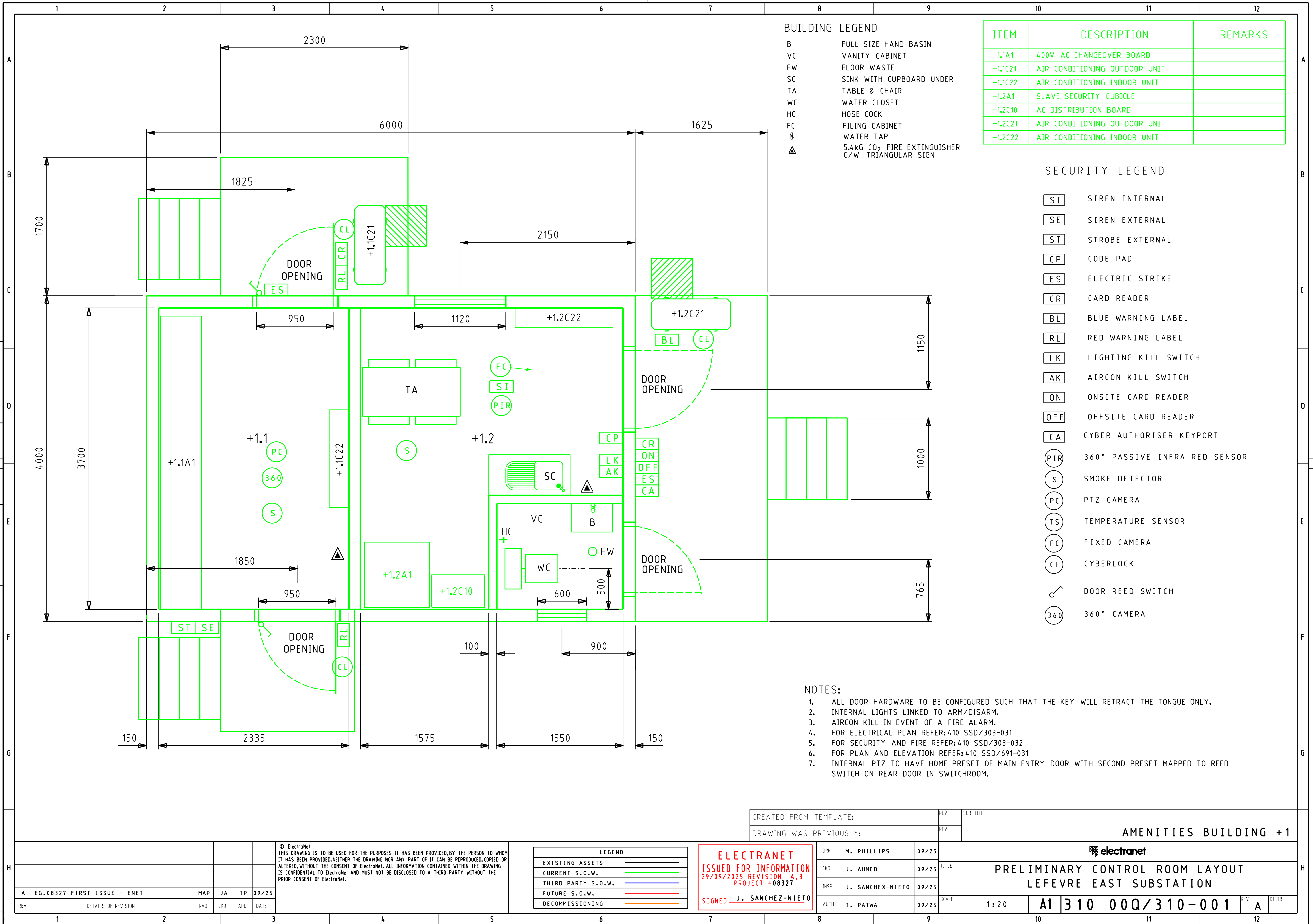
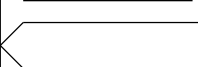
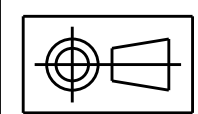
CREATED FROM TEMPLATE:		REV	SUB TITLE
DRAWING WAS PREVIOUSLY:		REV	
ANI 275KV RELOCATION			
ELECTRANET			
DR	M. PHELIPS	09/25	PRELIMINARY ELEVATION SECTIONS LEFEVRE EAST SUBSTATION
DE	J. ARMED	09/25	
DRP	J. SANCHEZ-MIETO	09/25	
MTB	T. PATWA	09/25	
SCALE		1:250	A1 310 00Q/608-002
REV		A	MTB

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A	EG-00327	FORST ISSUE - ENET	MAP JA TP 09/25
REV	DETAILS OF REVISION	RVD	IND APD DATE

LEGEND	
EXISTING ASSETS	—
CURRENT S.O.W.	—
THIRD PARTY S.O.W.	—
FUTURE S.O.W.	—
DECOMMISSIONING	—

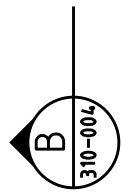
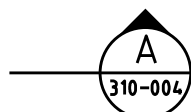
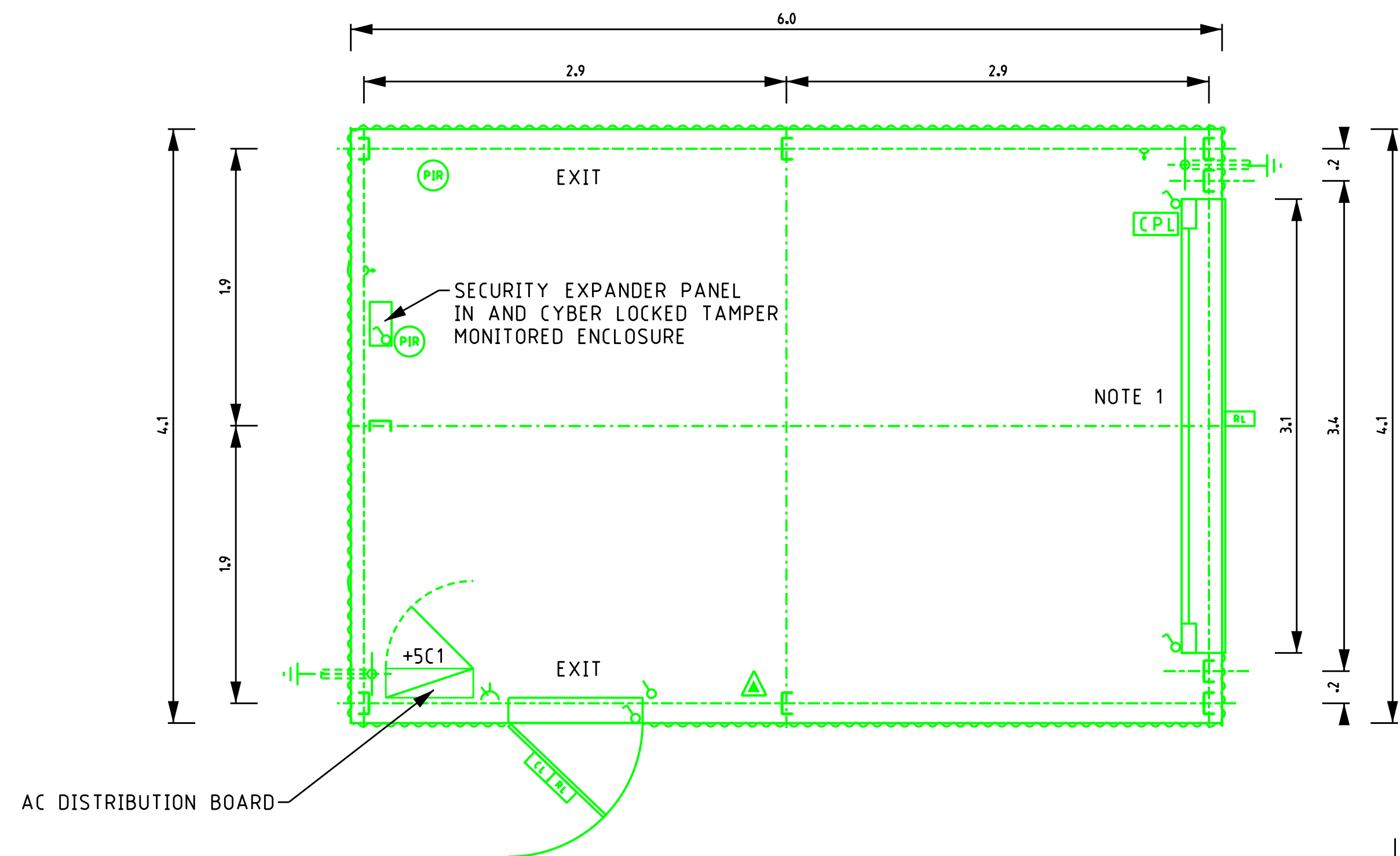
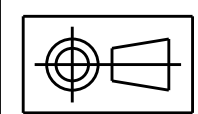
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ISSUED FOR INFORMATION
29/09/2025 REVISION 2.6
PROJECT 008327
SIGNED J. SANCHEZ-MIETO

TOLERANCES - UNLESS OTHERWISE SPECIFIED REFER DRAWING:



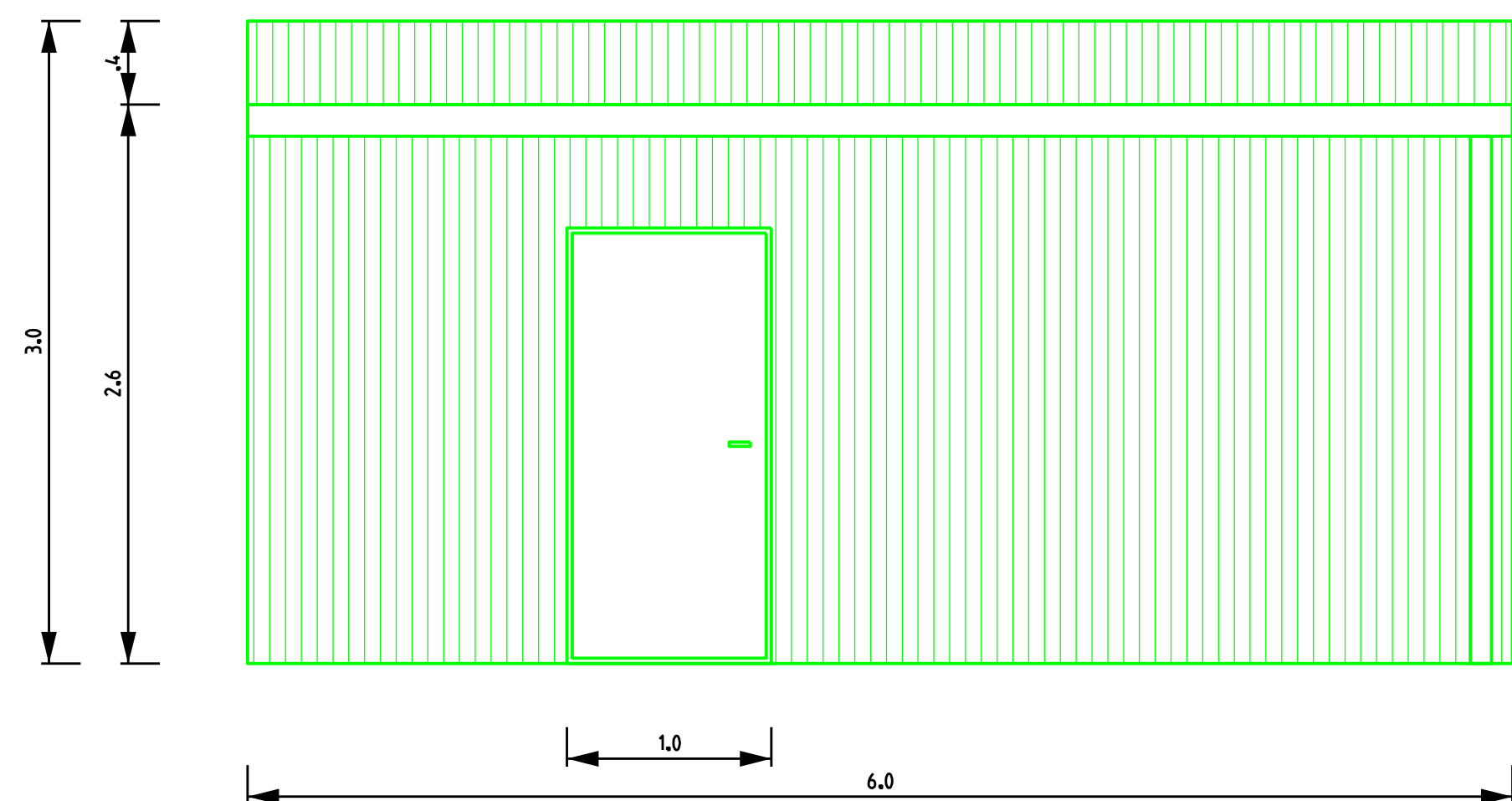
DO NOT SCALE DRAWINGS FOR WORKING DIMENSIONS

TOLERANCES - UNLESS OTHERWISE SPECIFIED REFER DRAWING:

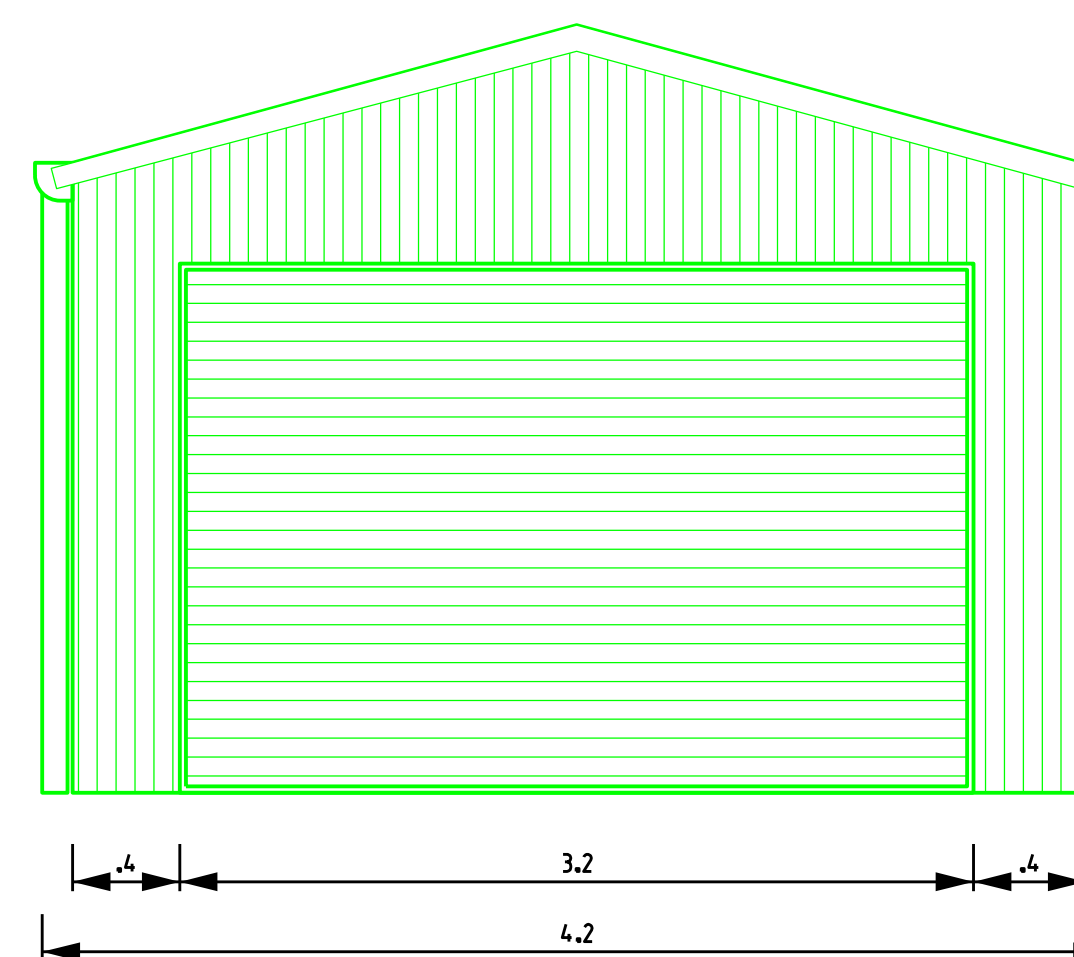


LEGEND

- PIR PASSIVE INFRA RED SENSOR
- CL CYBERLOCK
- PC PTZ CAMERA
- CPL CYBER PADLOCK
- RL RED WARNING LABEL
- DOOR REED SWITCH
- 5.4KG CO2 FIRE EXTINGUISHER
C/W RECTANGULAR SIGN
AS PER AS2444
- LIGHT SWITCH
- DOUBLE (1-2 WAY) SWITCHED SOCKET OUTLET WHITE
(RATING 10A UNLESS NOTED OTHERWISE)



A SECTION A
310-004 1:30



B SECTION B
310-004 1:30

CREATED FROM TEMPLATE:			REV	SUB-TITLE
DRAWING WAS PREVIOUSLY:			REV	
			+5 SHED	
DRN	M. PHILLIPS	09/25	TITLE PRELIMINARY CONTROL BUILDING LAYOUT LEFEVRE EAST SUBSTATION	
CKD	J. AHMED	09/25		
INSP	J. SANCHEZ-NIETO	09/25		
AUTH	T. PATWA	09/25		
			SCALE	1:40
			A1 310 00Q/310-004	
			REV	A
			DISTB	

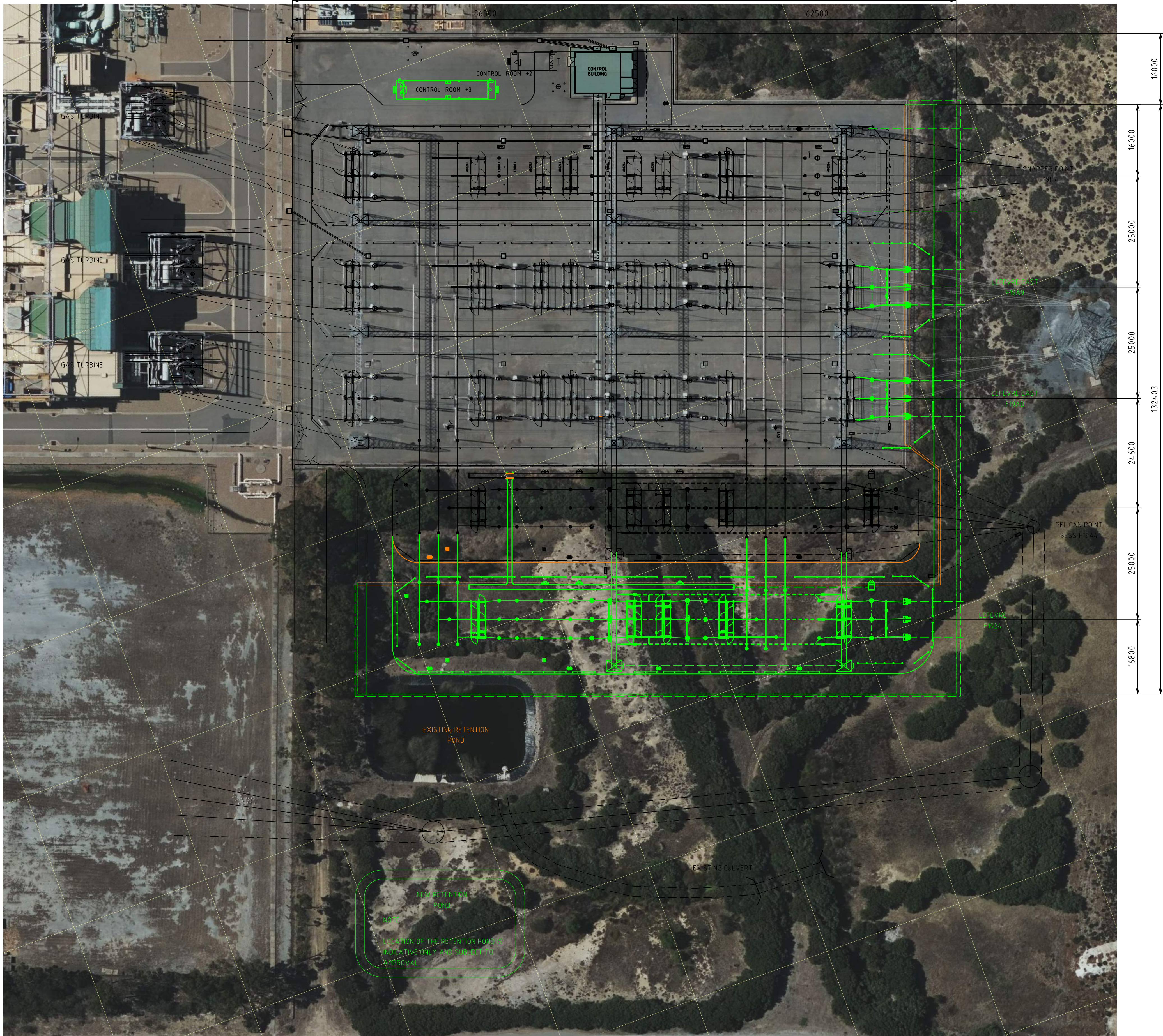
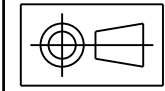
LEGEND	
EXISTING ASSETS	—
CURRENT S.O.W.	—
THIRD PARTY S.O.W.	—
FUTURE S.O.W.	—
DECOMMISSIONING	—

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29/09/2025 REVISION A.3
PROJECT #08327
SIGNED J. SANCHEZ-NIETO

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REV	DETAILS OF REVISION	RVD	CKD	APD	DATE
A	EG.08327 FIRST ISSUE - ENET	MAP	JA	TP	09/25

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REV	DETAILS OF REVISION	MAP	DATE
A	08327 FIRST ISSUE - ENET	11/25	

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LEGEND	
EXISTING ASSETS	—
CURRENT S.O.W.	—
THIRD PARTY S.O.W.	—
COMMITTED S.O.W.	—
DECOMMISSIONING	—

ELECTRANET
SKETCH FOR INFORMATION
25/11/2025 REVISION 4.3
PROJECT # 08327
SIGNED T. PATWA

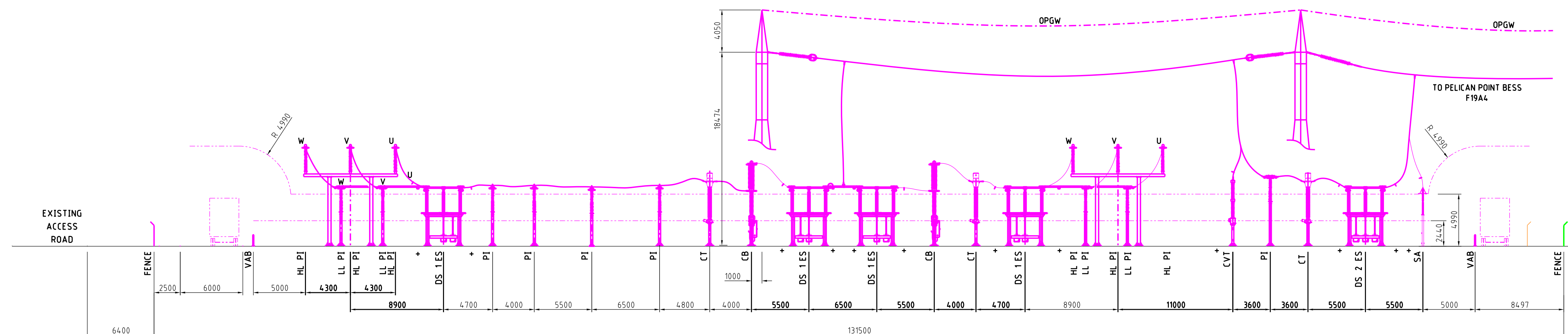
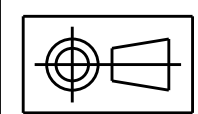
SUB TITLE		REV		TITLE		SCALE		REV		DISTR	
ULTIMATE ANI 275KV RELOCATION				PRELIMINARY LAYOUT SKETCH PELICAN POINT SUBSTATION		1 : 4 0 0		B1		A	
								08327-SK-S-004			



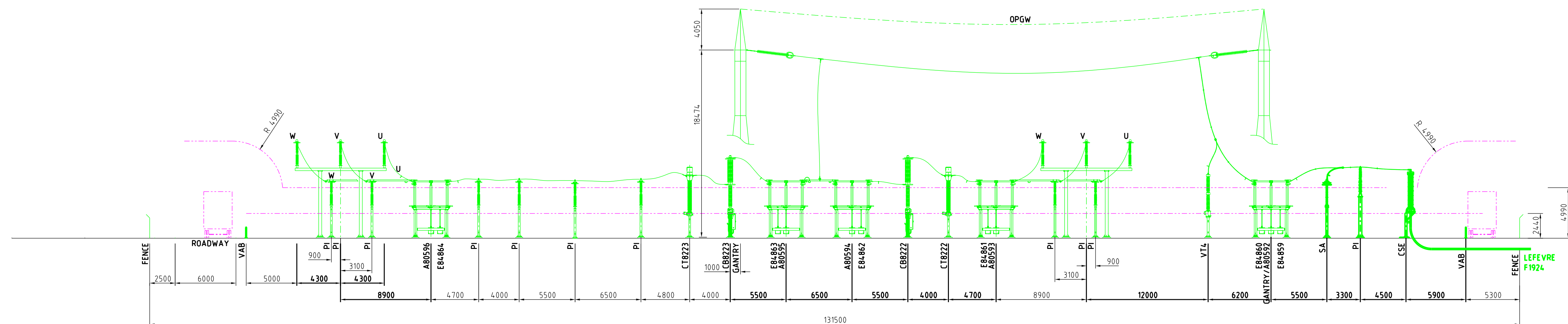
08327_SK_S_004_REV_A.dgn

DO NOT SCALE DRAWINGS FOR WORKING DIMENSIONS

TOLERANCES - UNLESS OTHERWISE SPECIFIED REFER DRAWING:



DIAMETER +C04 ELEVATION



DIAMETER +C05 ELEVATION

NOTES:

- ALL DIMENSIONS IN MILLIMETRES.
- INTERPLANT CONNECTION ARRANGEMENT SHOWN IS SUBJECT TO CONFIRMING SHORT CIRCUIT FORCES WILL NOT EXCEED THE STATIC AND DYNAMIC WITHSTAND LOAD OF COMBINED CT/VT PRIMARY TERMINAL PALM.

LEGEND:

VAB	VEHICLE ACCESS BARRIER
DS	DISCONNECTOR SWITCH
ES	EARTH SWITCH
CT	CURRENT TRANSFORMER
CB	CIRCUIT BREAKER
LL PI	LOW LEVEL POST INSULATOR
HL PI	HIGH LEVEL POST INSULATOR
CVT	CAPACITIVE VOLTAGE TRANSFORMER
SA	SURGE ARRESTOR

DRAFT

CREATED FROM TEMPLATE:		REV	SUB TITLE						
DRAWING WAS PREVIOUSLY:		REV	DIAMETER +C04 AND +C05						
CTRANET FOR INFORMATION 5 REVISION - A,3 PROJECT #08327	DRN	M. PHILLIPS	electronet						
	CKD	J. AHMED	TITLE						
	INSP	J. SANCHEZ-NIETO	PRELIMINARY ELEVATION SECTION						
	AUTH	T. PATWA	PELICAN POINT SUBSTATION						
		SCALE	1:250	A1	310	193/608-005	REV	A	DISTB

LEGEND	
EXISTING ASSETS	—
CURRENT S.O.W.	—
THIRD PARTY S.O.W.	—
COMMITTED S.O.W.	—
DECOMMISSIONING	—

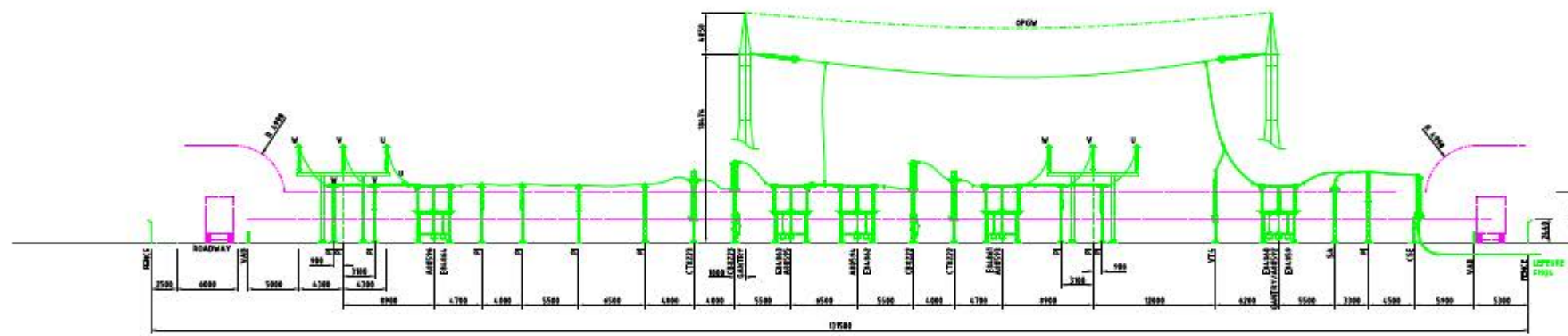
ELECTRANET
ISSUED FOR INFORMATION
25/09/2025 REVISION A,3
PROJECT #08327
SIGNED _____

DRN	M. PHILLIPS
CKD	J. AHMED
INSP	J. SANCHEZ-NIETO
AUTH	T. PATWA

REV	DETAILS OF REVISION	RVD	CKD	APD	DATE
A	08327 FIRST ISSUE - ENET	MAP	JA	TP	



DIAMETER +C04 ELEVATION



DIAMETER +C05 ELEVATION

NOTES

1. ALL DIMENSIONS IN MILLIMETRES.
2. INTERPLANT CONNECTION ARRANGEMENT SHOWN IS SUBJECT TO CONFIRMING SHORT CIRCUIT FORCES WILL NOT EXCEED THE STATIC AND DYNAMIC WITHSTAND LOAD OF COMBINED CT/VT PRIMARY TERMINAL PALS.

LEGEND

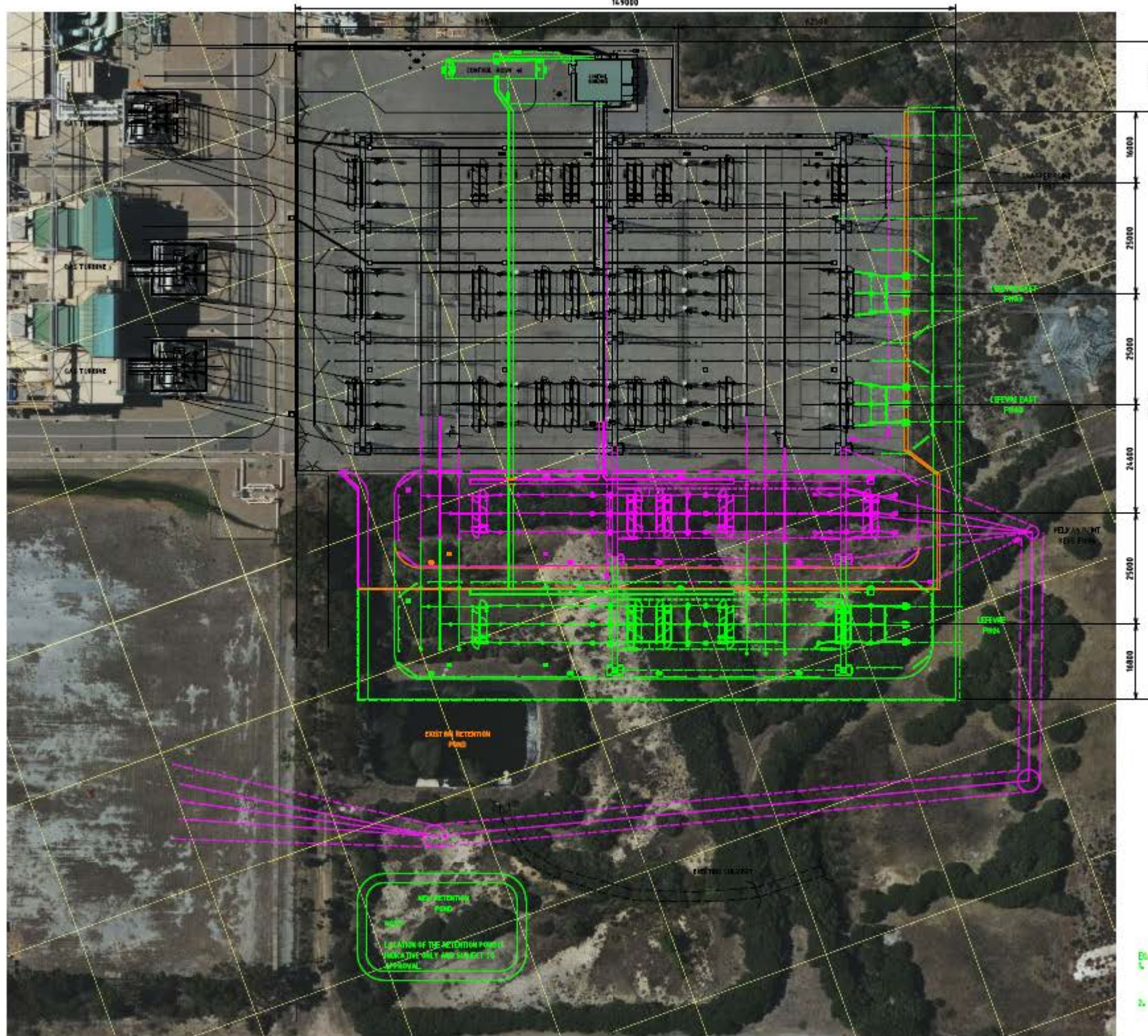
VAB	VEHICLE ACCESS BARRIER
DS	DISCONNECTOR SWITCH
ES	EARTH SWITCH
CT	CURRENT TRANSFORMER
CB	CIRCUIT BREAKER
LL PI	LOW LEVEL POST INSULATOR
HL PI	HIGH LEVEL POST INSULATOR
CVT	CAPACITIVE VOLTAGE TRANSFORMER
SA	SURGE ARRESTOR

CREATED FROM TEMPLATE:		REV	SUB TITLE
DRAWING WAS PREVIOUSLY:		REV	DIAMETER +C04 AND +C05
DR	M. PHILLIPS	18/25	PRELIMINARY ELEVATION SECTION PELICAN POINT SUBSTATION SCALE 1:250 A1 310 193/608-005 REV A
DR	J. AHMED	18/25	
DRP	J. SANCHEZ-NIETO	18/25	
AUT	T. PATWA	18/25	

LEGEND			
EXISTING ASSETS	—		
CURRENT S.O.W.	—		
THIRD PARTY S.O.W.	—		
COMMITTED S.O.W.	—		
DECOMMISSIONING	—		

08327 FIRST ISSUE - ENET	HAP	JA	TP	18/25
DETAILS OF REVISION	RVD	CRD	APD	BATF

ELECTRANET
 ISSUED FOR INFORMATION
 31/10/2025 REVISION A.4
 PROJECT 408327
 SIGNED J. SANCHEZ-NIETO



1. THE NORTHERN SECTION OF TRENCH BETWEEN CONTROL BUILDING #1 AND #2 HAS BEEN KEPT AS SHOWN IN OTHER PROJECT PLANS. CONTRACTOR TO REVIEW THE REQUIREMENT AND UPDATE AS PART OF DETAILED DESIGN.

2. REQUIREMENT OF A NEW CABLE TRENCH AS SHOWN FROM DIAMETER #405 IS SUBJECT TO THE ASSESSMENT OF EXISTING CABLE TRENCH CAPACITY DURING DETAILED DESIGN.

	100	100
	100	100

ULTIMATE
ANI 275KV RELOCATION

ElectroNETS Electricity transmission

PRELIMINARY LAYOUT
PELICAN POINT SUBSTATION

1:400	B1	310 193/605-006	REV A	0078
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10:03 AM

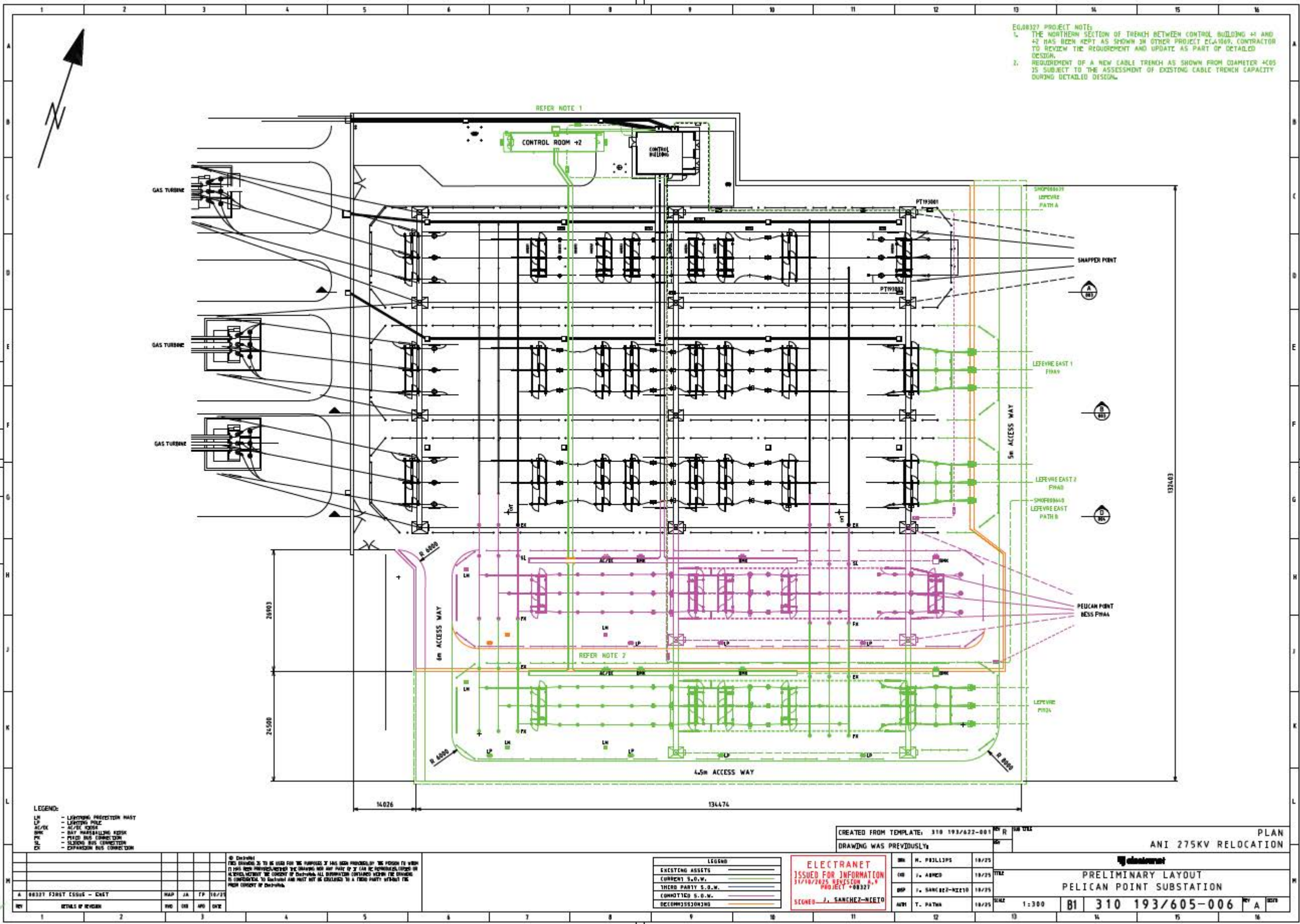
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EXISTING ASSETS	_____
CURRENT S.O.W.	_____
THIRD PARTY S.O.W.	_____
COMMITTED S.O.W.	_____
DECOMMISSIONING	_____

ELECTRANET
ISSUED FOR INFORMATION
31/10/2025 REVISED 4.9
PROJECT #00327
SIGNED J. SANCHEZ-NIET

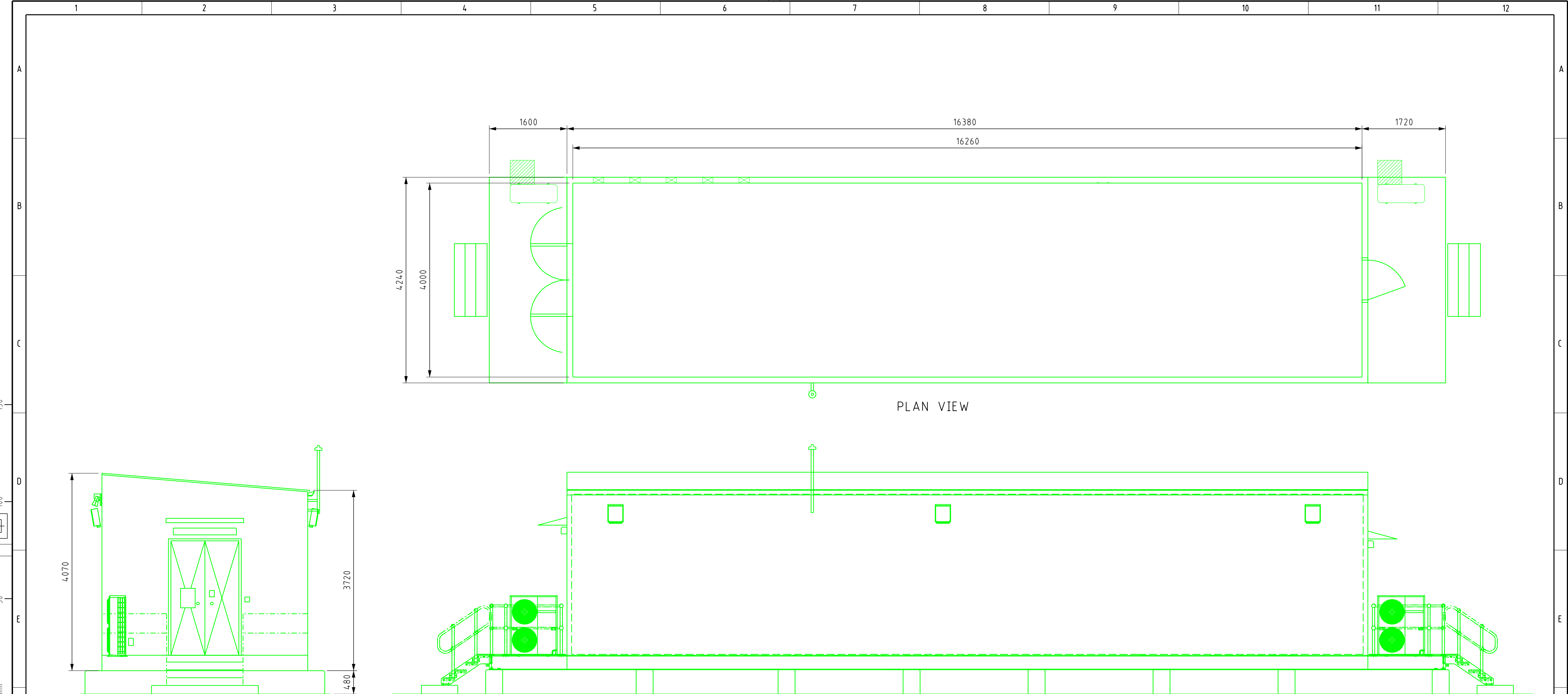
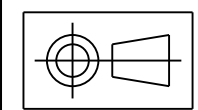
001	M. PHILLIPS	10/7
002	J. ABRES	10/7
003	J. SANCHEZ-NEZIO	10/7
004	T. PATNA	10/7

15	
15	TIME
15	
15	SCALE 1 :

Electrical & Mechanical Division
PRELIMINARY LAYOUT
PELICAN POINT SUBSTATION



TOLERANCES - UNLESS OTHERWISE SPECIFIED REFER DRAWING:



SIDE ELEVATION

SIDE ELEVATION

CREATED FROM TEMPLATE:

SUB-TITLE

+3 CONTROL BUILDING

ElectraNet - electricity transmission

PRELIMINARY CONTROL BUILDING LAYOUT SKETCH
PELICAN POINT SUBSTATION

SCALE 1:40

A1 08327-SK-S-005

REV

A

DISTB

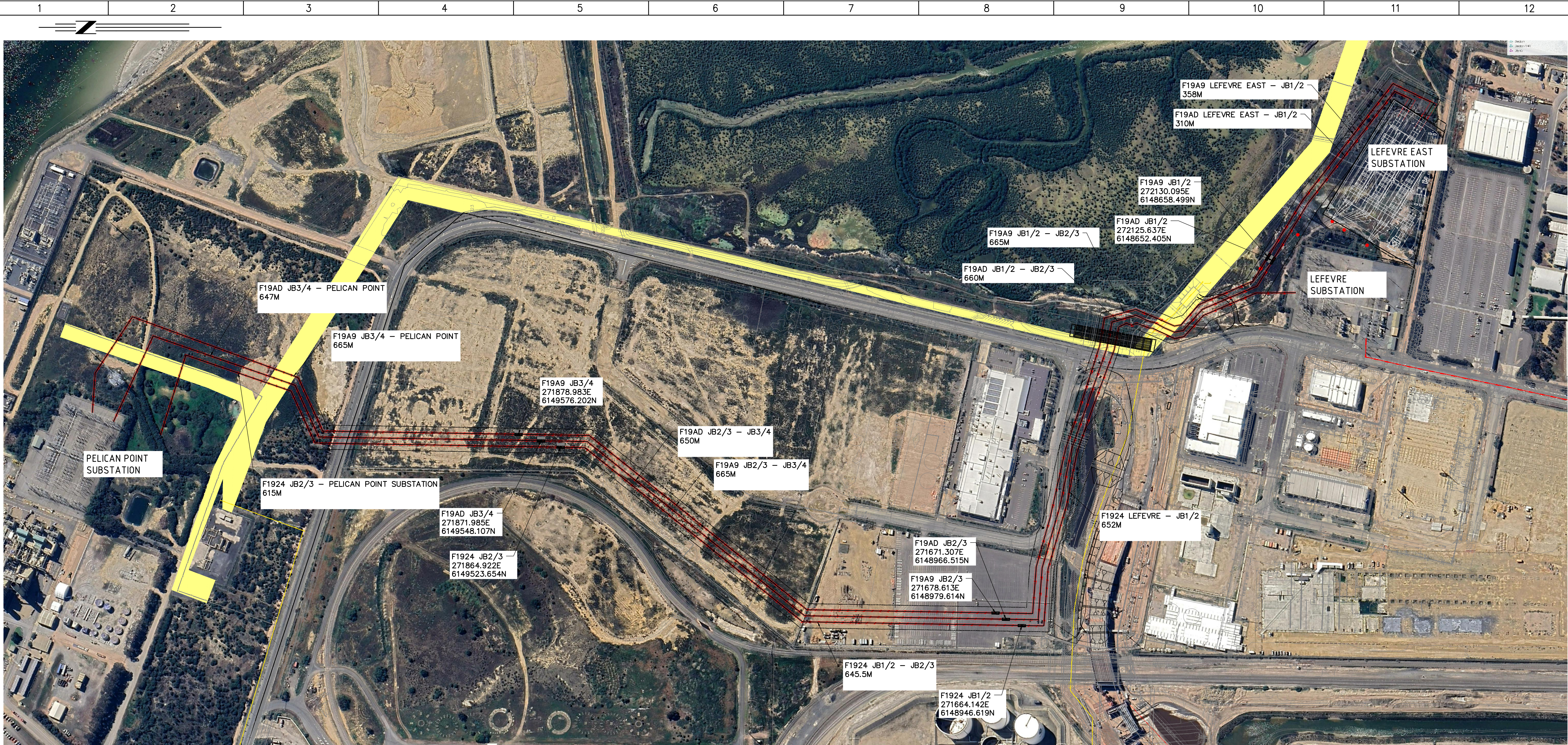
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LEGEND	
EXISTING ASSETS	—
CURRENT S.O.W.	—
THIRD PARTY S.O.W.	—
COMMITTED S.O.W.	—
DECOMMISSIONING	—

DRN M. PHILLIPS 11/25
ELECTRANET
SKETCH FOR INFORMATION
25/11/2025 REVISION A.4
PROJECT #08327
SIGNED T. PATWA

REV	DETAILS OF REVISION	RVD	DATE
A	08327 FIRST ISSUE - ENET	MAP	11/25





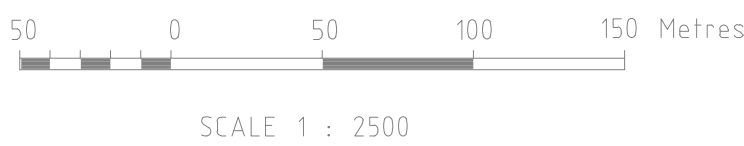
NOTES

1. THIS DRAWING IS ONLY RELATED TO CONFIRMATION OF JOINT BAY LOCATIONS.
2. CABLE ROUTE SHOWN IS INDICATIVE AND SUBJECT TO CHANGE BASED ON DETAILED DESIGN.

REFERENCE DRAWINGS:

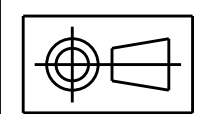
- | | |
|-----------------|-------------------------------------|
| 3 02259/920-001 | F19A9 275kV CABLE SCHEMATIC DIAGRAM |
| 3 02259/920-002 | F19AD 275kV CABLE SCHEMATIC DIAGRAM |
| 3 02259/920-003 | F1924 275kV CABLE SCHEMATIC DIAGRAM |

REVISION A1 : NOTES ADDED. TITLE CHANGED
ISSUED FOR INTERNAL REVIEW 9
2.4.26



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									DRAWING WAS PREVIOUSLY		REV	NOTES, SECTION AND DETAILS		
												ElectraNet – electricity transmission		
												ROUTE PLANS		
												LEFEVRE / LEFEVRE EAST - PELICAN POINT		

TOLERANCES UNLESS OTHERWISE SPECIFIED REFER DRAWING:



0mm

50

100

150

- NOTES:
1. FIBRE OPTIC PIT
 2. 100mm CONDUIT.
 3. 50mm CONDUIT.
 4. A 300kV POST INSULATOR INSTALLED AT THIS LOCATION. PREVIOUSLY USED BY WEST BUS CVT.

REV	08327 FIRST ISSUE - ENET	MAP	JA	TP	09/25
	DETAILS OF REVISION	RVD	CKD	APD	DATE

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LEGEND	
EXISTING ASSETS	
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THIRD PARTY S.O.W.	
FUTURE S.O.W.	
DECOMMISSIONING	

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29/09/2025 REVISION A,5
PROJECT #08327
SIGNED J. SANCHEZ-NIETO

CREATED FROM TEMPLATE: 310 254/601-001
DRAWING WAS PREVIOUSLY:

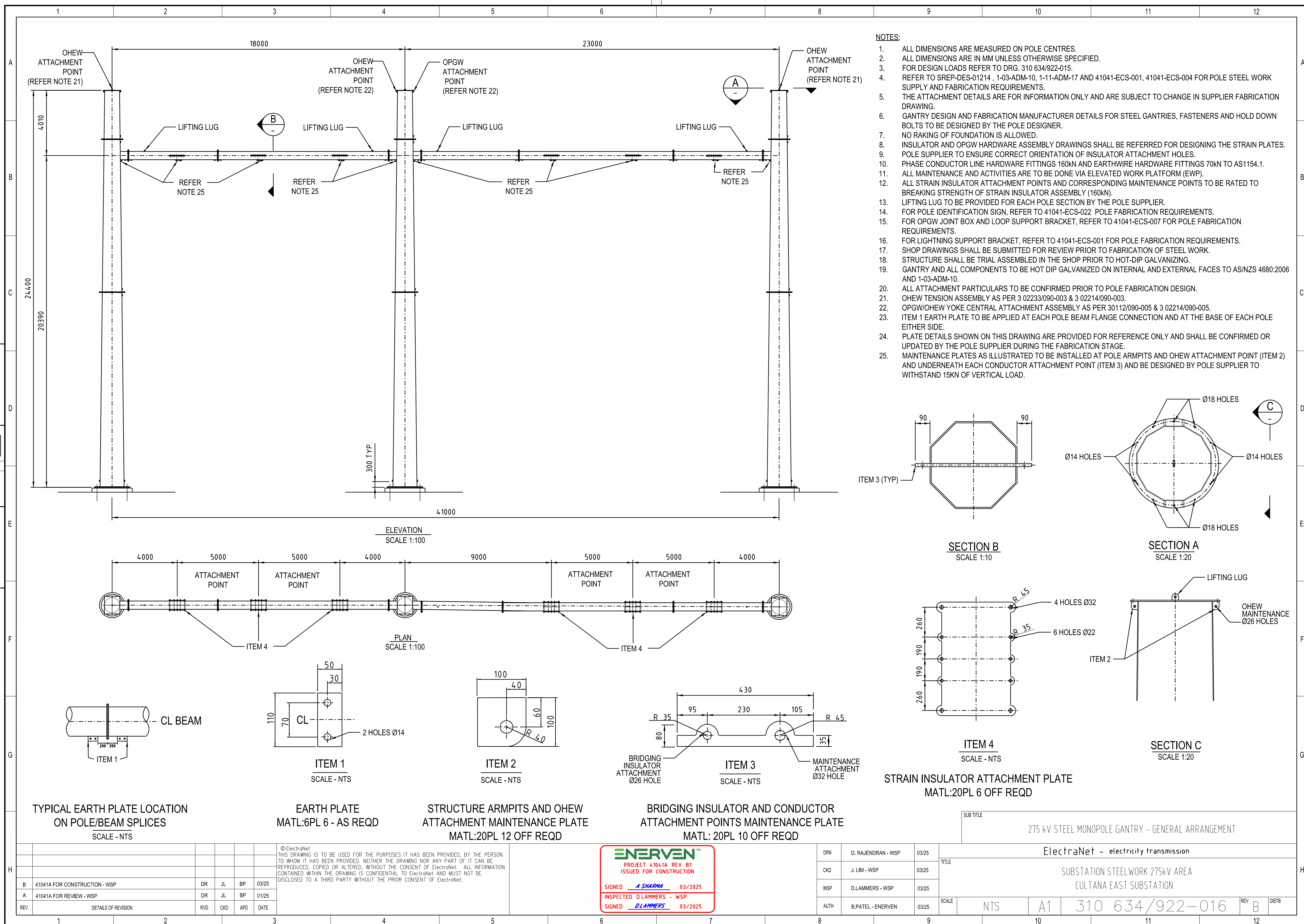
DRN	M. PHILLIPS	09/25
CKD	J. AHMED	09/25
INSP	J. SANCHEZ-NIETO	09/25
AUTH	T. PATWA	09/25

REV	AL	SUB TITLE

electronet		ULTIMATE ANI 275KV RELOCATION	
PRELIMINARY LAYOUT TORRENS B SUBSTATION		TITLE	
SCALE N.T.S.		A1 310 254/605-026	
REV A		DISTR	

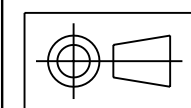
DO NOT SCALE DRAWINGS FOR WORKING DIMENSIONS

Technical drawing of a truncated cone. The front view on the right shows a trapezoid with a horizontal top edge and a vertical centerline. The top view on the left shows two concentric circles with a vertical centerline.



DO NOT SCALE DRAWINGS FOR WORKING DIMENSIONS

TOLERANCES UNLESS OTHERWISE SPECIFIED REFER DRAWING:



50

0mm

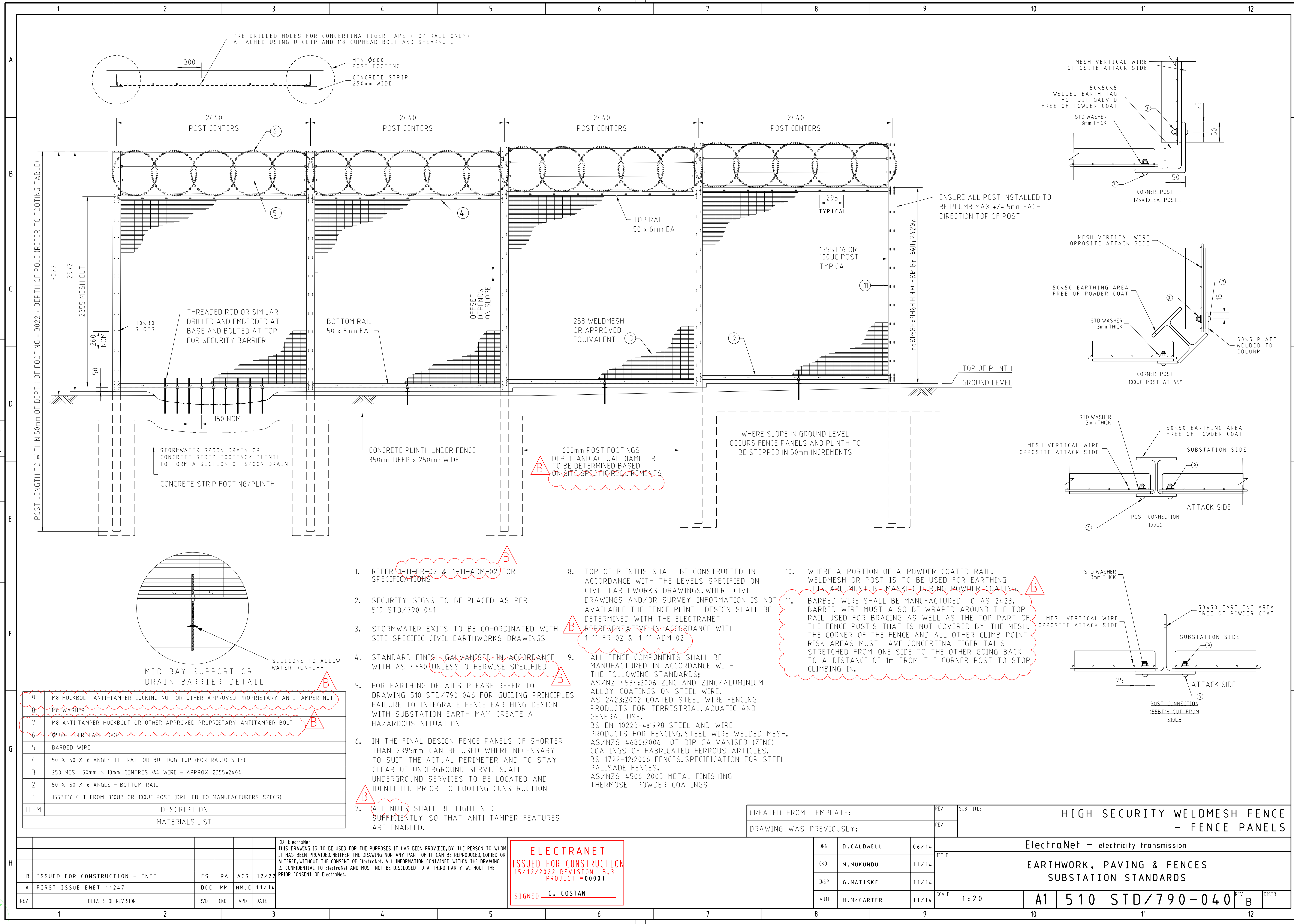
F

G

H



510 STD_790_040_Rev_B.dgn



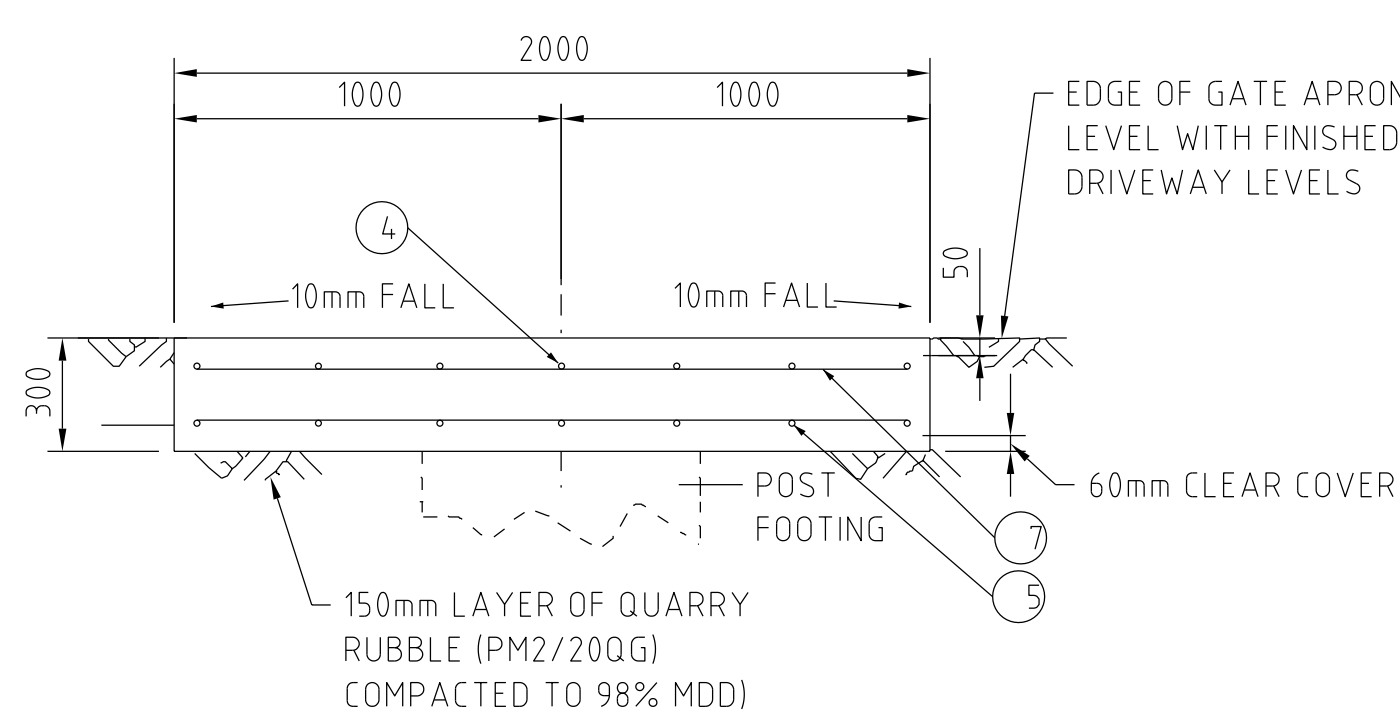
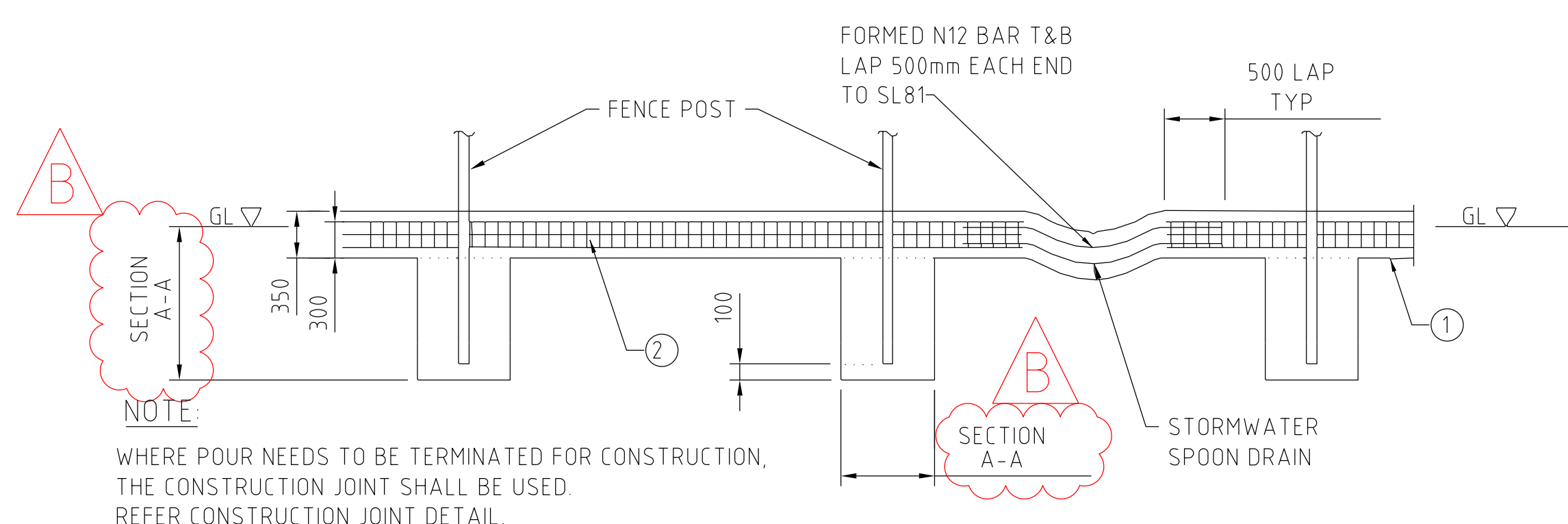
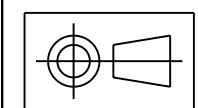
ITEM	DESCRIPTION
9	M8 HUCKBOLT ANTI-TAMPER LOCKING NUT OR OTHER APPROVED PROPRIETARY ANTI TAMPER NUT
8	M8 WASHER
7	M8 ANTI TAMPER HUCKBOLT OR OTHER APPROVED PROPRIETARY ANTITAMPER BOLT
6	Ø550 TIGER TAPE LOOP
5	BARBED WIRE
4	50 X 50 X 6 ANGLE TIP RAIL OR BULLDOG TOP (FOR RADIO SITE)
3	258 MESH 50mm x 13mm CENTRES Ø4 WIRE - APPROX 2355x2404
2	50 X 50 X 6 ANGLE - BOTTOM RAIL
1	155BT16 CUT FROM 310UB OR 100UC POST (DRILLED TO MANUFACTURERS SPECS)

- REFER 1-11-FR-02 & 1-11-ADM-02 FOR SPECIFICATIONS
- SECURITY SIGNS TO BE PLACED AS PER 510 STD/790-041
- STORMWATER EXITS TO BE CO-ORDINATED WITH SITE SPECIFIC CIVIL EARTHWORKS DRAWINGS
- STANDARD FINISH GALVANISED IN ACCORDANCE WITH AS 4680 UNLESS OTHERWISE SPECIFIED
- FOR EARTHING DETAILS PLEASE REFER TO DRAWING 510 STD/790-046 FOR GUIDING PRINCIPLES FAILURE TO INTEGRATE FENCE EARTHING DESIGN WITH SUBSTATION EARTH MAY CREATE A HAZARDOUS SITUATION
- IN THE FINAL DESIGN FENCE PANELS OF SHORTER THAN 2395mm CAN BE USED WHERE NECESSARY TO SUIT THE ACTUAL PERIMETER AND TO STAY CLEAR OF UNDERGROUND SERVICES. ALL UNDERGROUND SERVICES TO BE LOCATED AND IDENTIFIED PRIOR TO FOOTING CONSTRUCTION
- ALL NUTS SHALL BE TIGHTENED SUFFICIENTLY SO THAT ANTI-TAMPER FEATURES ARE ENABLED.
- TOP OF PLINTHS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE LEVELS SPECIFIED ON CIVIL EARTHWORKS DRAWINGS. WHERE CIVIL DRAWINGS AND/OR SURVEY INFORMATION IS NOT AVAILABLE THE FENCE PLINTH DESIGN SHALL BE DETERMINED WITH THE ELECTRANET REPRESENTATIVE IN ACCORDANCE WITH 1-11-FR-02 & 1-11-ADM-02
- ALL FENCE COMPONENTS SHALL BE MANUFACTURED IN ACCORDANCE WITH THE FOLLOWING STANDARDS:
AS/NZ 4534:2006 ZINC AND ZINC/ALUMINIUM ALLOY COATINGS ON STEEL WIRE.
AS 2423:2002 COATED STEEL WIRE FENCING PRODUCTS FOR TERRESTRIAL, AQUATIC AND GENERAL USE.
BS EN 10223-4:1998 STEEL AND WIRE PRODUCTS FOR FENCING. STEEL WIRE WELDED MESH.
AS/NZS 4680:2006 HOT DIP GALVANISED (ZINC) COATINGS OF FABRICATED FERROUS ARTICLES.
BS 1722-12:2006 FENCES. SPECIFICATION FOR STEEL PALISADE FENCES.
AS/NZS 4506-2005 METAL FINISHING THERMOSET POWDER COATINGS
- WHERE A PORTION OF A POWDER COATED RAIL, WELDMESH OR POST IS TO BE USED FOR EARTHING THIS ARE MUST BE MASKED DURING POWDER COATING.
- BARBED WIRE SHALL BE MANUFACTURED TO AS 2423. BARBED WIRE MUST ALSO BE WRAPPED AROUND THE TOP RAIL USED FOR BRACING AS WELL AS THE TOP PART OF THE FENCE POST'S THAT IS NOT COVERED BY THE MESH. THE CORNER OF THE FENCE AND ALL OTHER CLIMB POINT RISK AREAS MUST HAVE CONCERTINA TIGER TAILS STRETCHED FROM ONE SIDE TO THE OTHER GOING BACK TO A DISTANCE OF 1m FROM THE CORNER POST TO STOP CLIMBING IN.

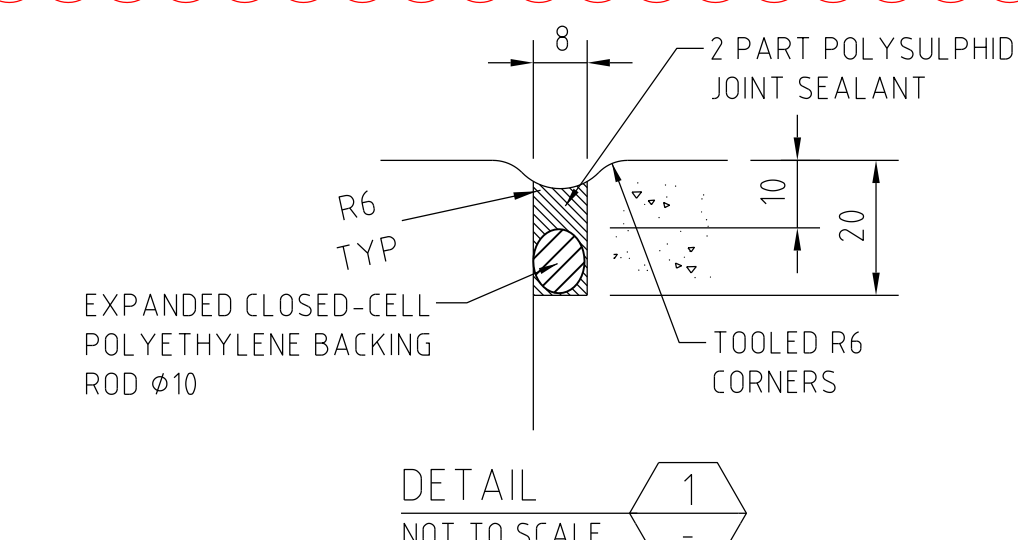
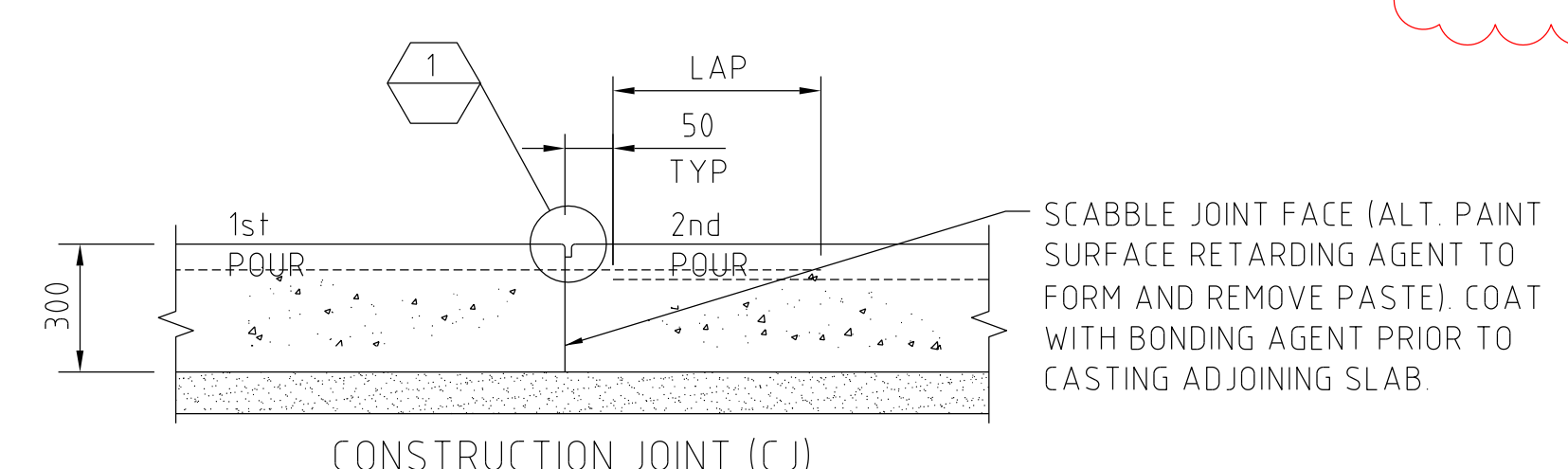
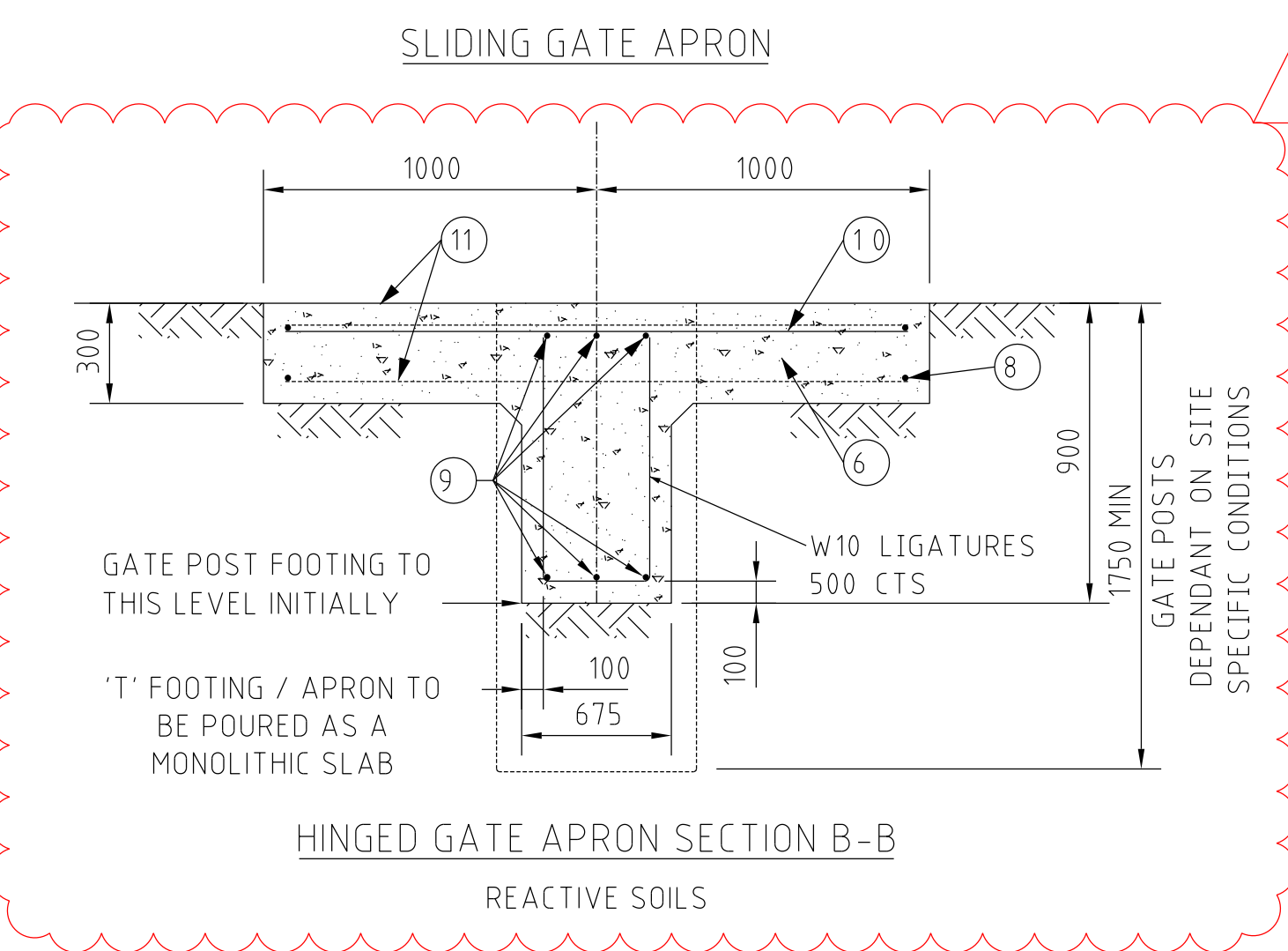
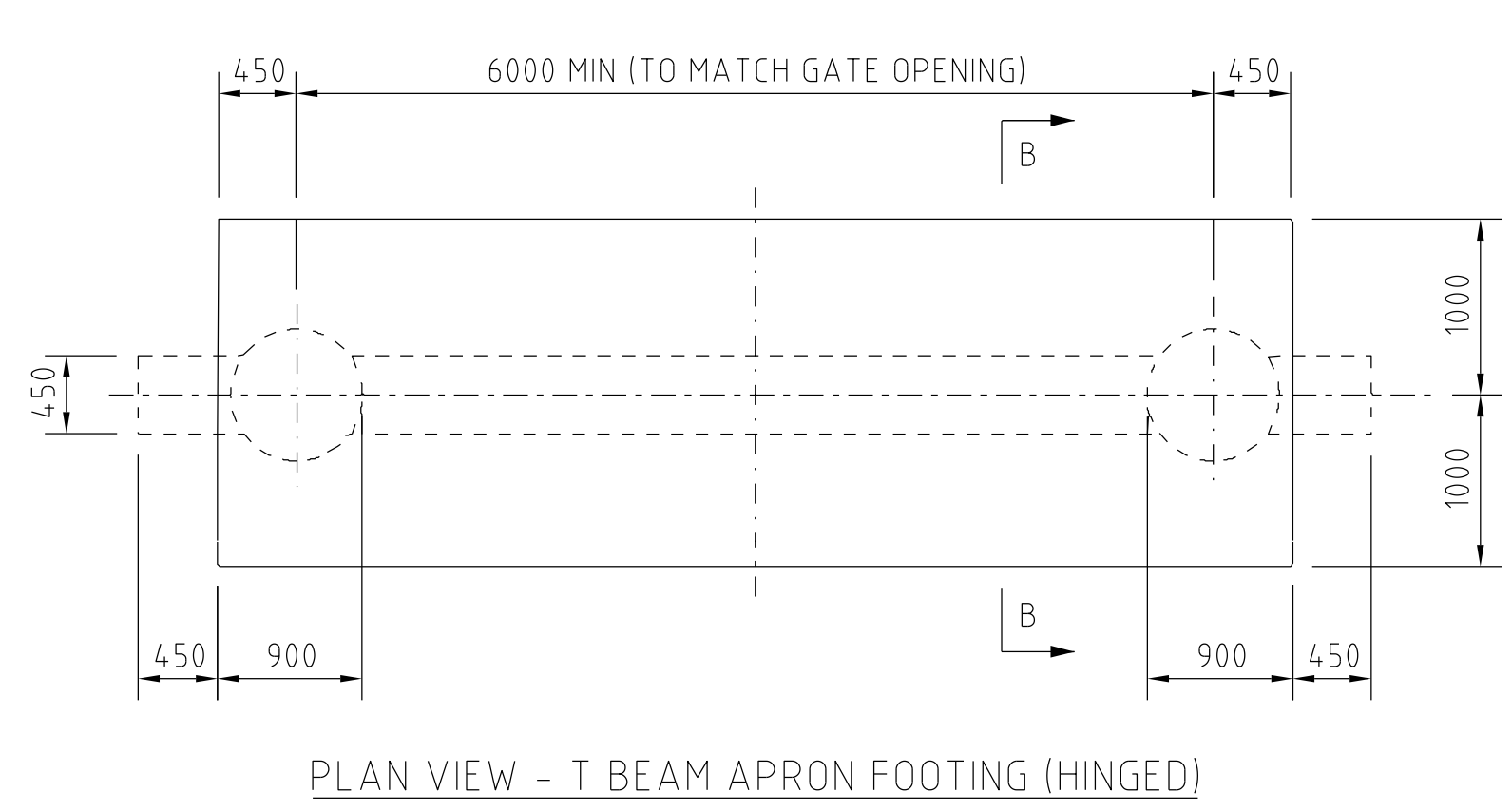
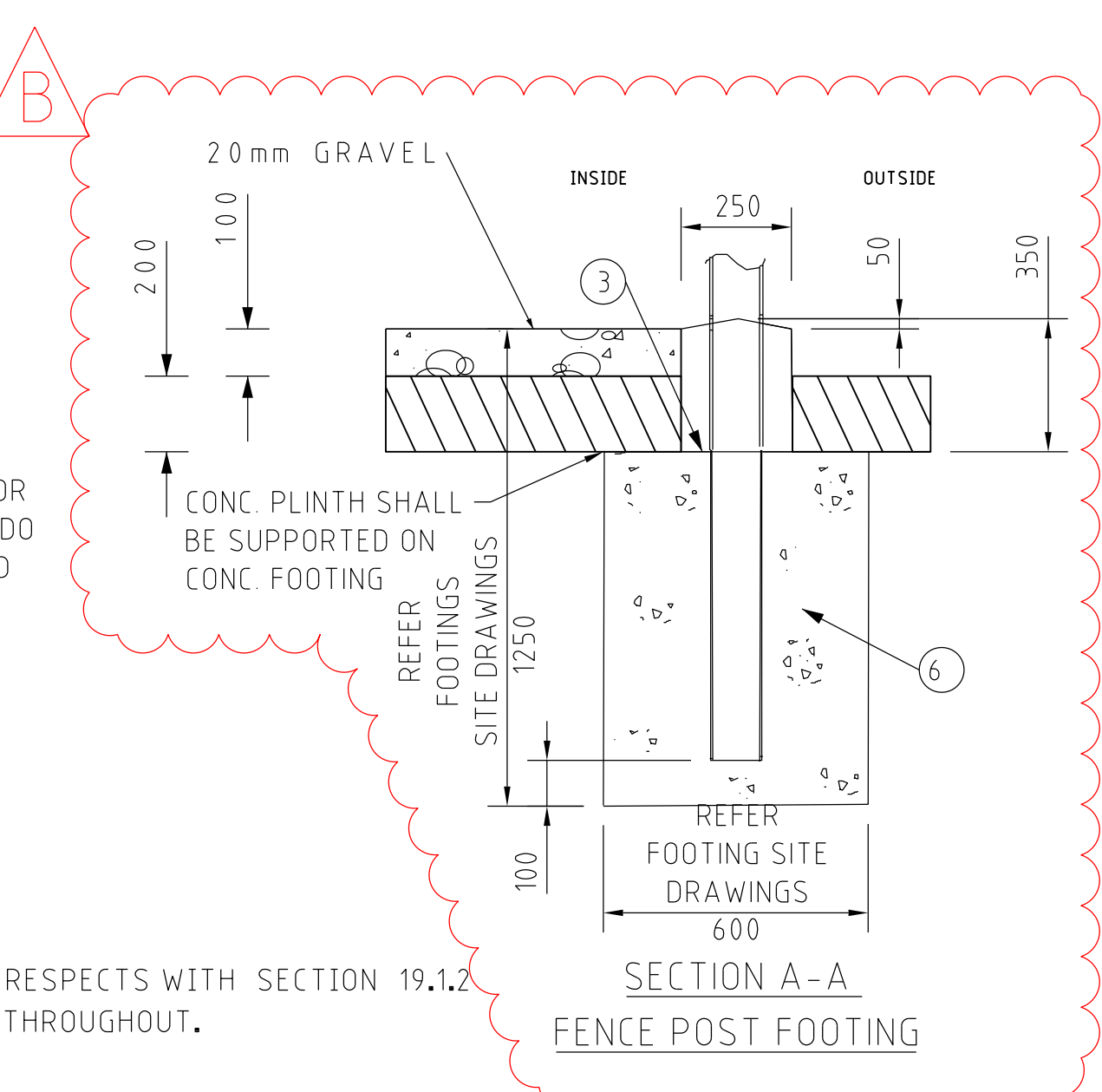
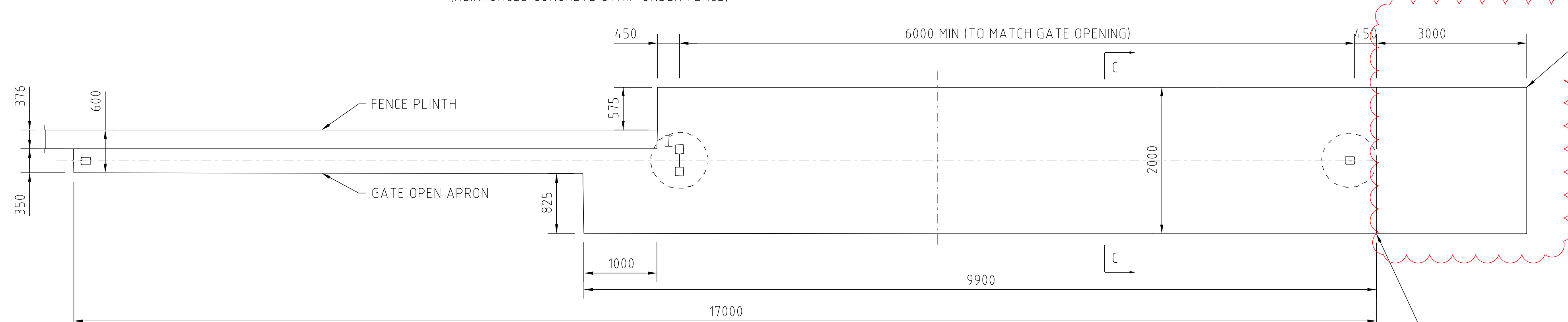
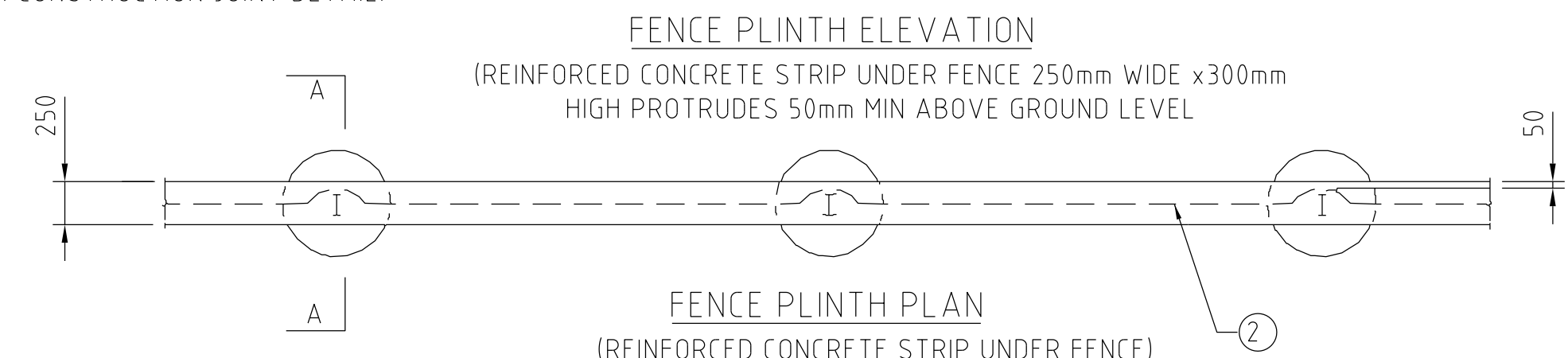
CREATED FROM TEMPLATE:	REV	SUB TITLE	HIGH SECURITY WELDMESH FENCE - FENCE PANELS			
DRAWING WAS PREVIOUSLY:	REV					
DRN	D. CALDWELL	06/14	ElectraNet - electricity transmission			
CKD	M. MUKUNDU	11/14				
INSP	G. MATISKE	11/14				
AUTH	H. McCARTER	11/14				
TITLE			EARTHWORK, PAVING & FENCES			
SCALE			SUBSTATION STANDARDS			
SCALE 1:20			A1	510 STD/790-040	REV B	DISTB

DO NOT SCALE DRAWINGS FOR WORKING DIMENSIONS

TOLERANCES UNLESS OTHERWISE SPECIFIED REFER DRAWING:



MATERIAL LIST	
ITEM	DESCRIPTION
1	CONCRETE PLINTH 250W
2	SL81 REO MESH - CENTRAL IN CONCRETE PLINTH (MIN 50mm COVER)
3	CLEAN SCABBLE FOOTING BEFORE POURING PLINTH
4	N16-200 (TOP)
5	N20-200 (BOTTOM)
6	CONCRETE 32mpa (WITHIN 5km OF COAST 40mpa TO BE USED)
7	N16-200 (TOP AND BOTTOM)
8	N16 PERIMETER BARS WITH 700mm LAPS AT CORNER (T&B)
9	N20 BARS (3 TOP, 3 BOTTOM) - 800 LAP
10	N12 BARS - 1800 LONG @ 400 CTS
11	SL81 REINFORCEMENT MESH (TOP AND BOTTOM)



- NOTES:**
- CONCRETE MANUFACTURE SHALL COMPLY IN ALL RESPECTS WITH SECTION 19.1.2 OF AS 3600, AS 1379.65mm CONCRETE COVER TO APPLY THROUGHOUT.
 - FOR EARTHING REFER TO ELECTRANET DRAWING 510 STD/790-046.
 - WHERE DIMENSIONS ARE SHOWN FOR DEPTHS AND DIAMETERS OF FOOTINGS THEY REPRESENT THE MINIMUM REQUIREMENT AND ARE STILL DEPENDANT ON SOIL REPORT AND LOAD REQUIREMENTS.
 - FENCE AND GATE POSTS SHALL BE INSTALLED SUCH THAT THE CONCRETE SHALL COMPLETELY ENCASE THEM BY AT LEAST 100mm SO THAT THE POSTS SHALL NOT COME IN DIRECT CONTACT WITH THE SOIL.
 - THE TOP OF THE POST FOOTING ARE TO BE CLEAN OF ANY DIRT PRIOR TO THE POURING OF THE CONCRETE PLINTH/STRIP.
 - CONSTRUCTION JOINTS SHALL BE PROPERLY FORMED AND USED ONLY WHERE CONTRACTOR REQUIRES. THEY SHALL BE VERTICAL IN ALL SLABS AND PLINTHS AND BE SCABBLED AND CLEANED AND SHALL HAVE A NEAT CEMENT-WATER SLURRY BRUSHED ON BEFORE POUR CONTINUES.

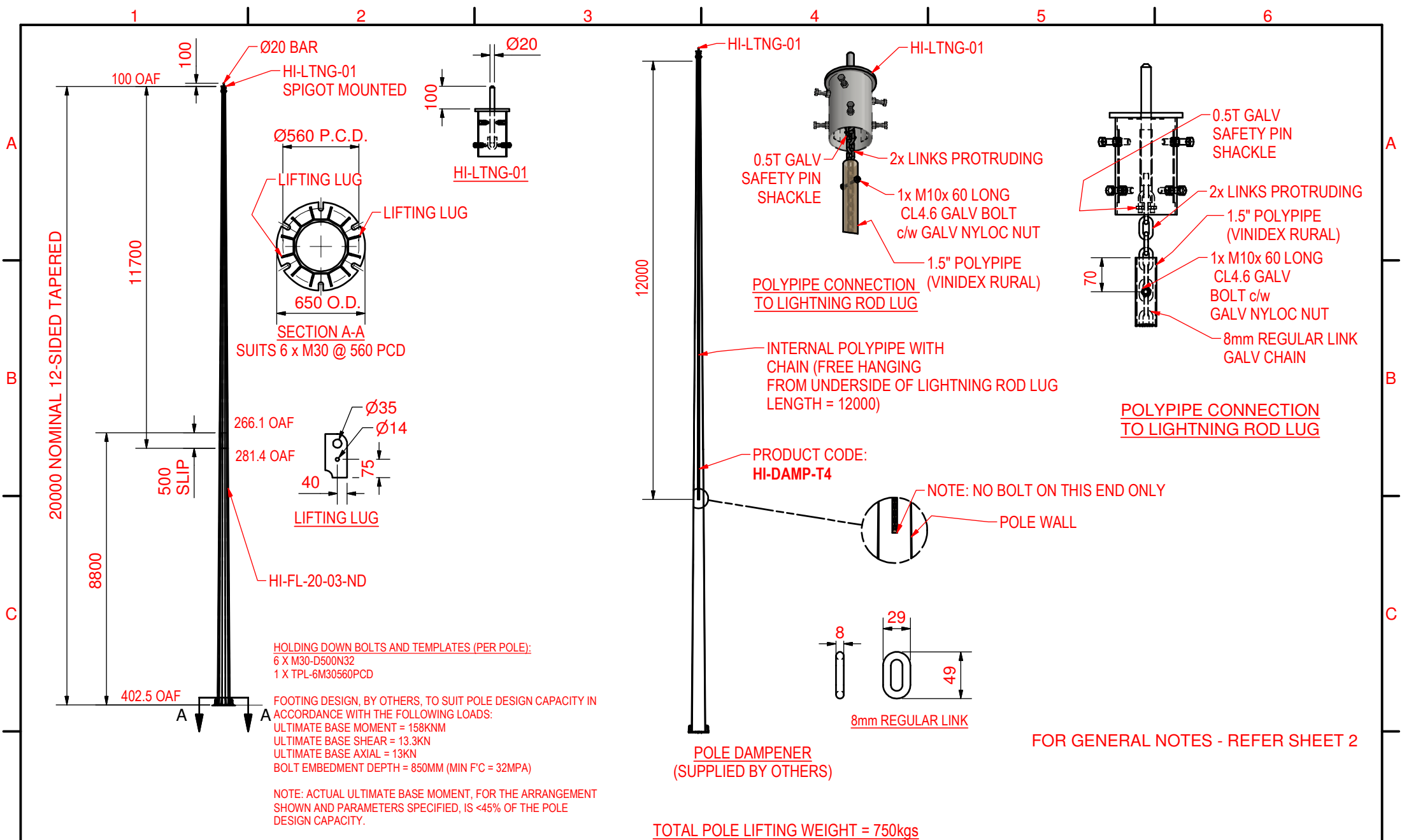
REV	DETAILS OF REVISION	RVD	CKD	APD	DATE
B	ISSUED FOR CONSTRUCTION - ENET	ES	RA	ACS	12/22
A	FIRST ISSUE ENET 11247	DCC	MM	HMC C	11/14

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ELECTRANET
ISSUED FOR CONSTRUCTION
15/12/2022 REVISION B,3
PROJECT #00001
SIGNED C. COSTAN

CREATED FROM TEMPLATE:		REV	SUB TITLE	
DRAWING WAS PREVIOUSLY:		REV	HIGH SECURITY WELDMESH FENCE - FOOTINGS AND PADS	
DRN	D. CALDWELL	11/14	ElectraNet - electricity transmission EARTHWORK, PAVING & FENCES SUBSTATION STANDARDS	
CKD	M. MUKUNDU	11/14		
INSP	G. MATISKE	11/14		
AUTH	H. McCARTER	11/14		
SCALE		NTS	A1	510 STD/790-045
			REV	B
			DISTB	





REV	DESCRIPTION	DRAWN/DATE	CHECKED/DATE	APPROVED/DATE	DRAWN / DATE	FL- 21/11/2025	TITLE
A	WAS V2500, TC2. DAMPENER CHANGED TO HANG-TYPE	FL-25/02/2026	25/02/2026		CHECKED / DATE		ELECTRANET - 20M POLE C/W 0.1m LIGHTNING ROD WIND REGION A, TERRAIN CAT 1
					APPROVED / DATE		
					WEIGHT		
					DO NOT SCALE DIMENSIONS IN MILLIMETRES		DRG NO HQFL2437-20m
							REV A
							SHEET 1 OF 2
							A3

HAYMAN
ENGINEERED STRUCTURES

119 AIRDS RD, MINTO, NSW, 2566
PH: (02) 8796 2600
www.haymangroup.com.au

20m HI-FL-20-03-ND

SLIP JOINT

1. Arrange the base section onto packing so that it is clear of the ground - ensure the packing near the slip joint is at least 300mm beyond the nominal slip length. Place wedges against the section to prevent rotation.
2. Note the design slip length (500mm) and make a reference mark on the male end of the pole 300mm beyond this length (for verifying actual slip distance)
3. Sling the upper section at its centre of gravity (approximately 0.42 x section length from the big end). Carefully align sections and engage the sections as far as possible, ensuring perfect alignment.
4. Place steel beams across each end of the pole and assemble two 5 tonne pull hand winches (turfors). The beams are to be set across the pole centre such that the resultant joining force is applied centrally to the pole.
5. Operate the hand winches in unison to compress the joint. Striking the end beams or the slip joint (via timber blocks) will assist in achieving a sound joint.
6. Continue to apply tension until no further movement is achieved. Check the actual slip length achieved against the design slip length - if the actual slip length achieved is less than the design length, then check that it is at least 1.35 times the female inside dimension across flats (372mm). Refer Hayman Industries if the actual slip length is less than this. NOTE: the actual compressive force should be between 2t to 10t.
7. NOTE; misalignment of sections for any reason may lead to jamming which may be difficult to rectify.

POLE LIFTING

1. Slip jointed poles shall be lifted with a non choked sling anchored back to the base section to ensure there is no possibility of a slip jointed section separating during installation.
2. Place a single unchoked sling around the pole at approximately two thirds height and an anchoring chain / rope to the pole base section. Total lifting weight = 750kg
3. The pole can then be lifted, orientated and positioned onto the holding down bolts.

DESIGN STANDARDS

AS/NZS 4600 COLD FORMED STEEL STRUCTURES
AS/NZS 4100 STEEL STRUCTURES
AS/NZS 4676 STRUCTURAL DESIGN REQUIREMENTS FOR STEEL
UTILITY SERVICES POLES
AS/NZS 1170.2 WIND LOADS
WIND REGION A
TERRAIN CATEGORY 1
BASIC WIND SPEED $V_{1000} = 46\text{M/S}$
AS3600 CONCRETE STRUCTURES
AS2159 PILING - DESIGN AND INSTALLATION DETAILS

SERVICEABILITY:

BASIC WIND SPEED = 28.87m/s (500Pa)
SERVICEABILITY TOP DEFLECTION < HEIGHT / 75

FATIGUE:

AS4100 - INFINITE FATIGUE LIFE BASED ON A STRESS RANGE
OF 135Pa (15m/s)
NOTE: POLE DAMPENER TO BE INSTALLED.
REFER 'POLE DAMPENER'

MANUFACTURE

MATERIAL

STEEL BASED ON COMMERCIALLY AVAILABLE
CHINESE / AMERICAN STEEL, EQUIVALENT TO AS/NZS3678
STRUCTURAL STEEL & AS/NZS1594 HOT ROLLED STEEL
FLAT PRODUCTS.
POLE SECTIONS - 3MM & 4MM THICK, GB/T 1591-2008 Q345B
(EQUIVALENT TO HU350 AS/NZS1594 & GR350
AS/NZS3678 WITH MINIMUM YIELD = 345MPa)
POLE SECTIONS - 5MM & 6MM THICK, ASTM A572 GR65
(EQUIVALENT TO HU450 AS/NZS1594 & GR450
AS/NZS3678 WITH MINIMUM YIELD = 450MPa)
RHS, SHS AND CHS, GB700-88, Q235B (EQUIVALENT TO HU250
AS/NZS1594 & GR250 AS/NZS3678 WITH
MINIMUM YIELD = 235MPa)
OTHER STRUCTURAL PLATE - GB/T1591-2008 Q345B
(EQUIVALENT TO GR350 AS/NZS3678 WITH MINIMUM
YIELD = 325MPa (SUBJECT TO PLATE THICKNESS))
REINFORCING BARS - AS/NZS4671
FOUNDATION BOLT THREAD - METRIC COARSE, AS1275 8G
BOLTS / NUTS - COMMERCIAL GRADE = CL4.6 AS1111
BOLTS/CL5 AS1112 NUTS; STRUCTURAL GRADE =
AS/NZS1252

WELD QUALITY

AS/NZS 1554.1 SP AND ALSO ISO 5817 LEVEL C

GALVANISING

HOT DIP GALVANISING AFTER ALL FABRICATION IN ACCORDANCE
WITH AS/NZS4680

TOLERANCES

AS1798 LIGHTING POLES AND BRACKETS & AS/NZS4677 STEEL
UTILITY SERVICES POLES

REV	DESCRIPTION	DRAWN/DATE	CHECKED/DATE	APPROVED/DATE	DRAWN / DATE	FL- 21/11/2025	TITLE	DRG NO	REV	SHEET	A3
A	WAS V2500, TC2. DAMPENER CHANGED TO HANG-TYPE	FL-25/02/2026	25/02/2026				ELECTRANET - 20M POLE C/W 0.1m LIGHTNING ROD WIND REGION A, TERRAIN CAT 1	HQFL2437-20m	A	2 OF 2	A3



119 AIRDS RD, MINTO, NSW, 2566
PH: (02) 8796 2600
www.haymangroup.com.au

DO NOT SCALE
DIMENSIONS
IN MILLIMETRES



RJ14.974-2-FB07	MODULE F BASE ERECTION
RJ14.974-2-E07	MODULE E ERECTION
RJ14.974-2-D07	MODULE D ERECTION
RJ14.974-2-C07	MODULE C ERECTION
RJ14.974-2-B07	MODULE B ERECTION
RJ14.974-2-TW1	TOWER ERECTION NOTES
RJ14.974-2-MW1	ANTENNA MOUNT DETAIL
RJ14.974-2-FAB1	STEEL SPECIFICATION NOTES
RJ14.974-2-BG1	BASE PLATE GROUTING
RJ14.974-2-SL1	STUB LADDER
RJ14.974-3-1	FOUNDATION DRAWING

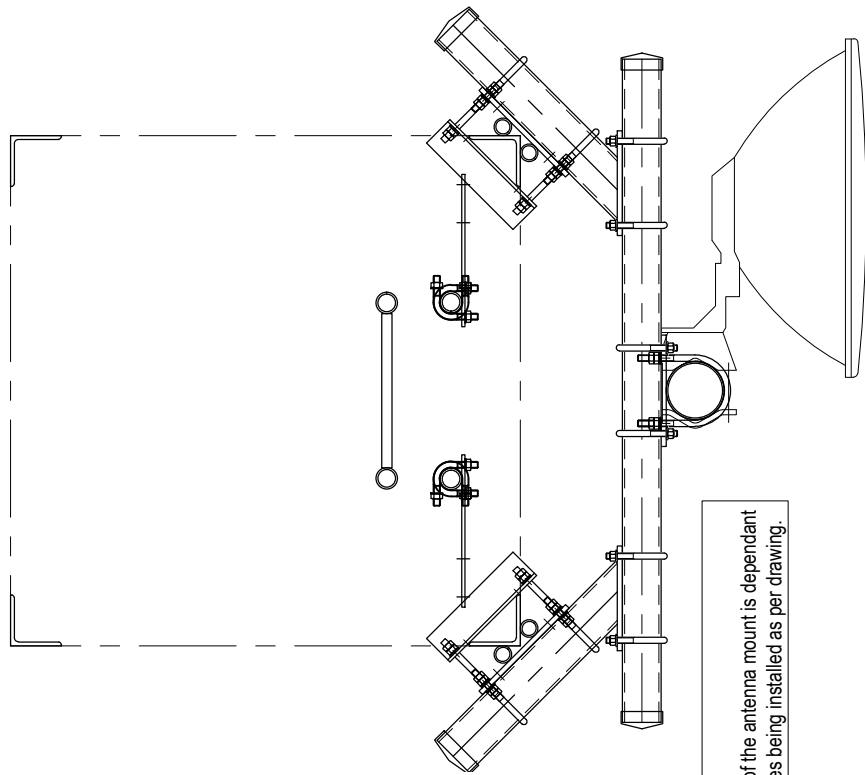
REFERENCE DRAWINGS

L.C	20-03-25
BY	DATE

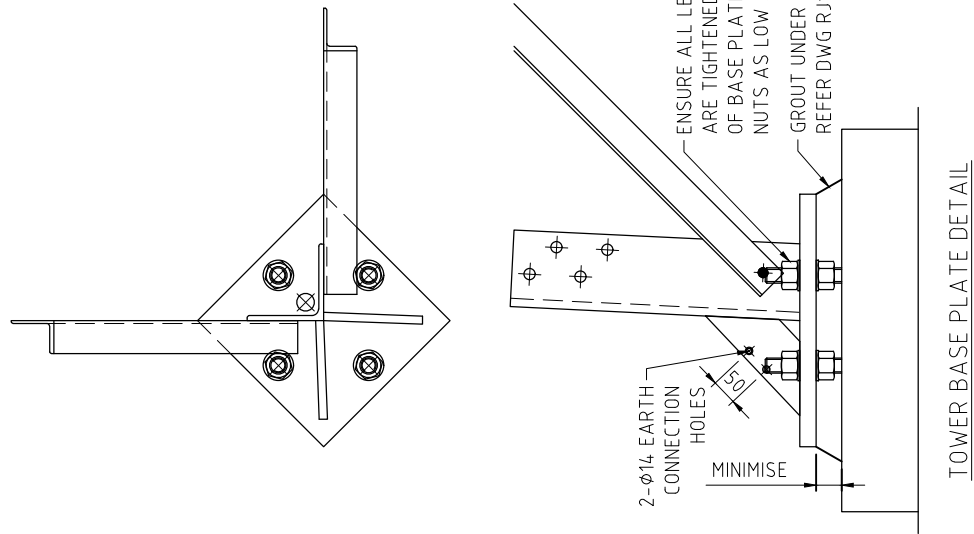
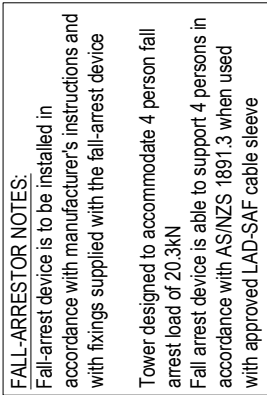
ROAM PTY LTD
437 VICTORIA ROAD
MALAGA W.A. 6090 AUSTRALIA
TEL (618) 9248 4950 FAX (618) 9248 4951

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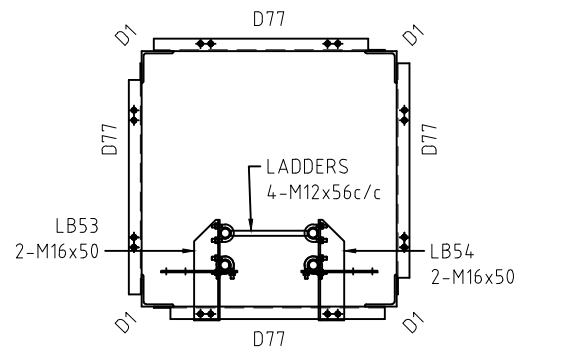
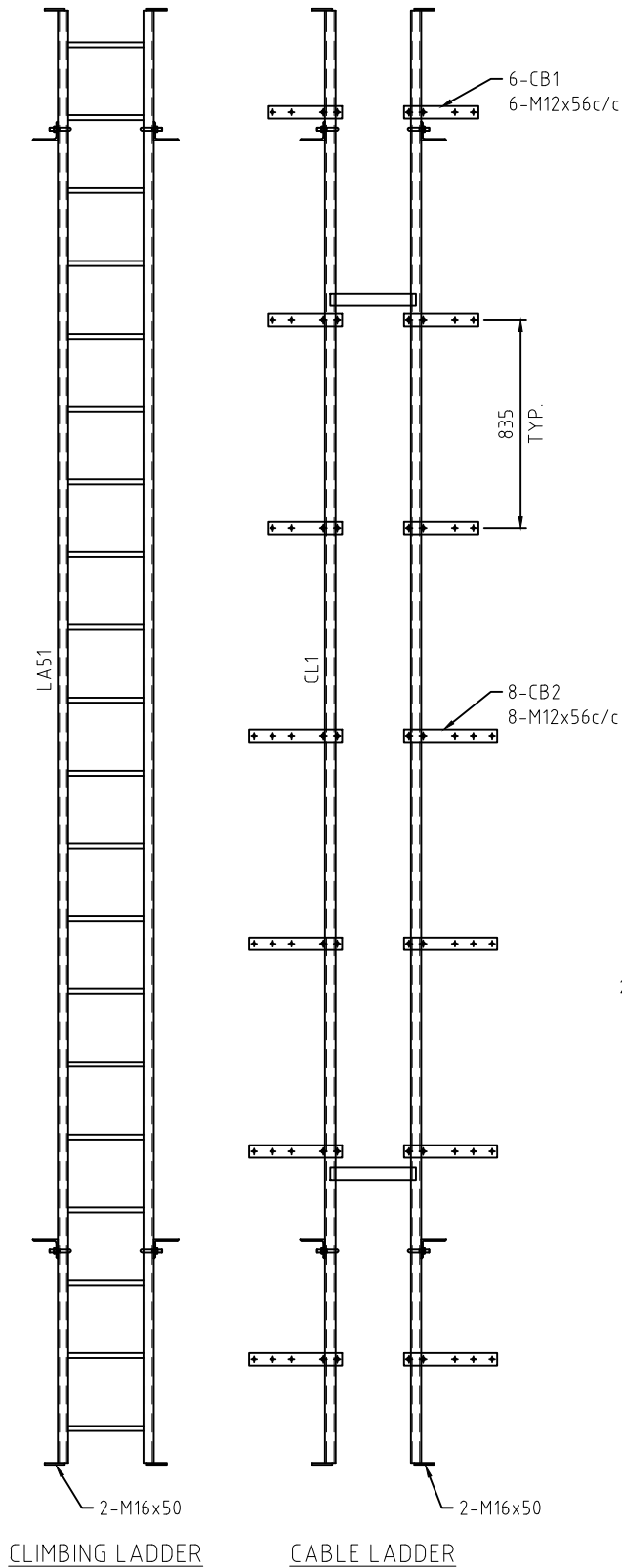
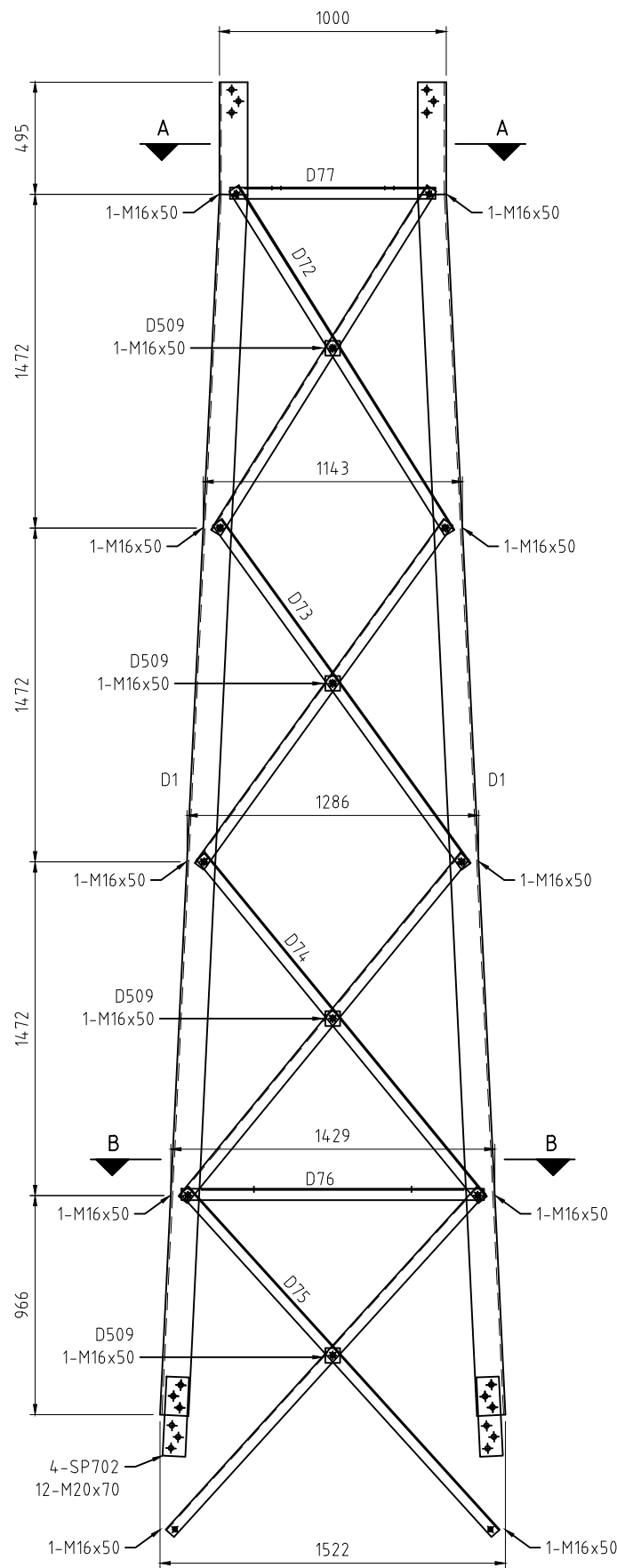
ELECTRANET 30m RT75 TOWER - CULTANA EAST GENERAL ARRANGEMENT			
SCALE: (A3) N.T.S	DWG. No. RJ14974-1-1	VER. -	REV. 0



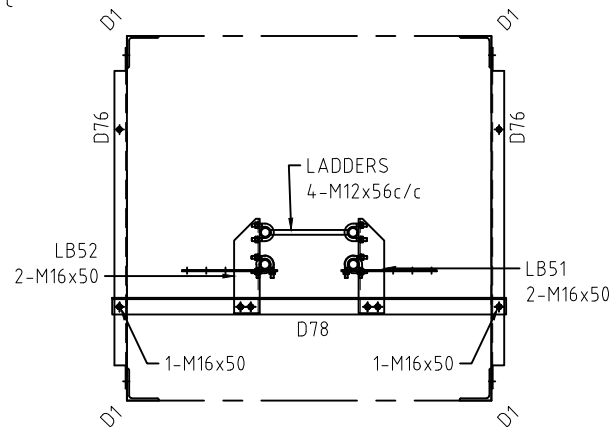
29.0m LEVEL PARABOLIC ANTENNA MOUNT PLAN
REFER TO RJ14974-2-MW1 FOR DETAILS



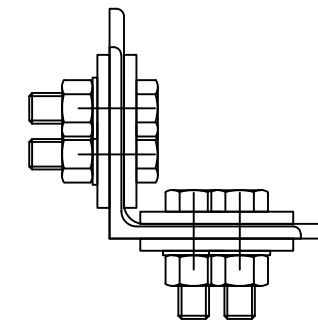
TOWER BASE PLATE DETAIL



SECTION A-A



SECTION B-B



LEG SPLICE DETAIL

HARDWARE SCHEDULE				
ITEM / PART	QTY	DESCRIPTION	GRADE/FINISH	SUPPLIED BY
M16x50	70	HEX HEAD BOLT + NUT & FLAT WASHER	GRADE 8.8 GALV	ROAM
M20x70	48	HEX HEAD BOLT + NUT & FLAT WASHER	GRADE 8.8 GALV	ROAM
M12x56 c/c	22	ASSEMBLY + 2 x EXTRA NUTS - UB12-056-090	GRADE 4.6 GALV	ROAM

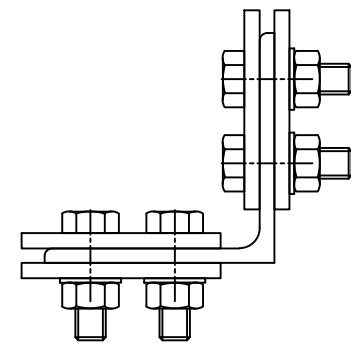
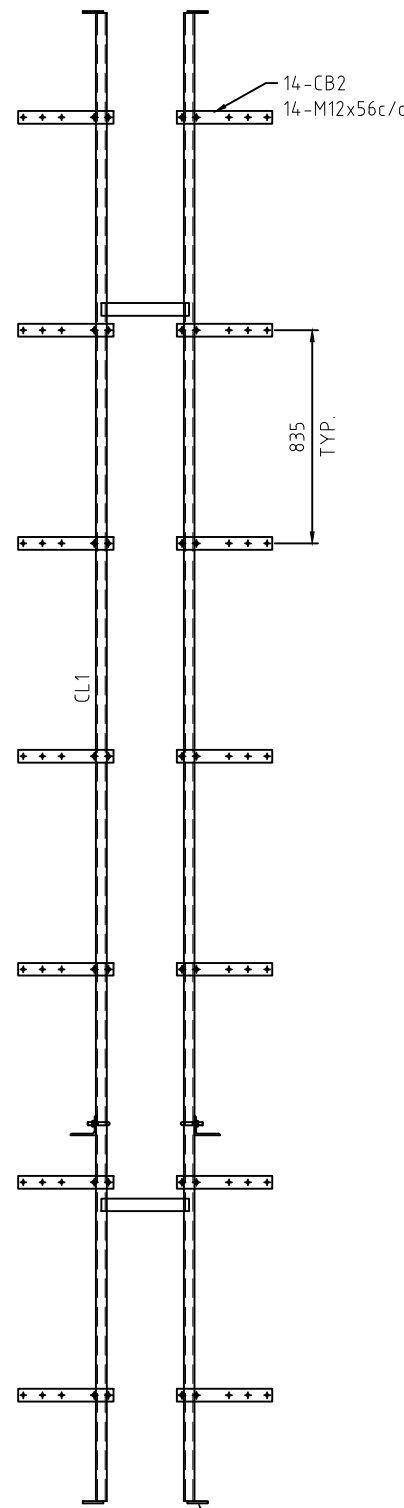
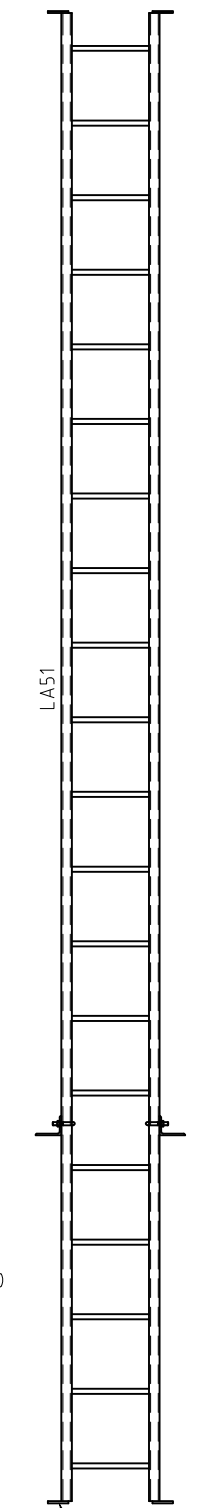
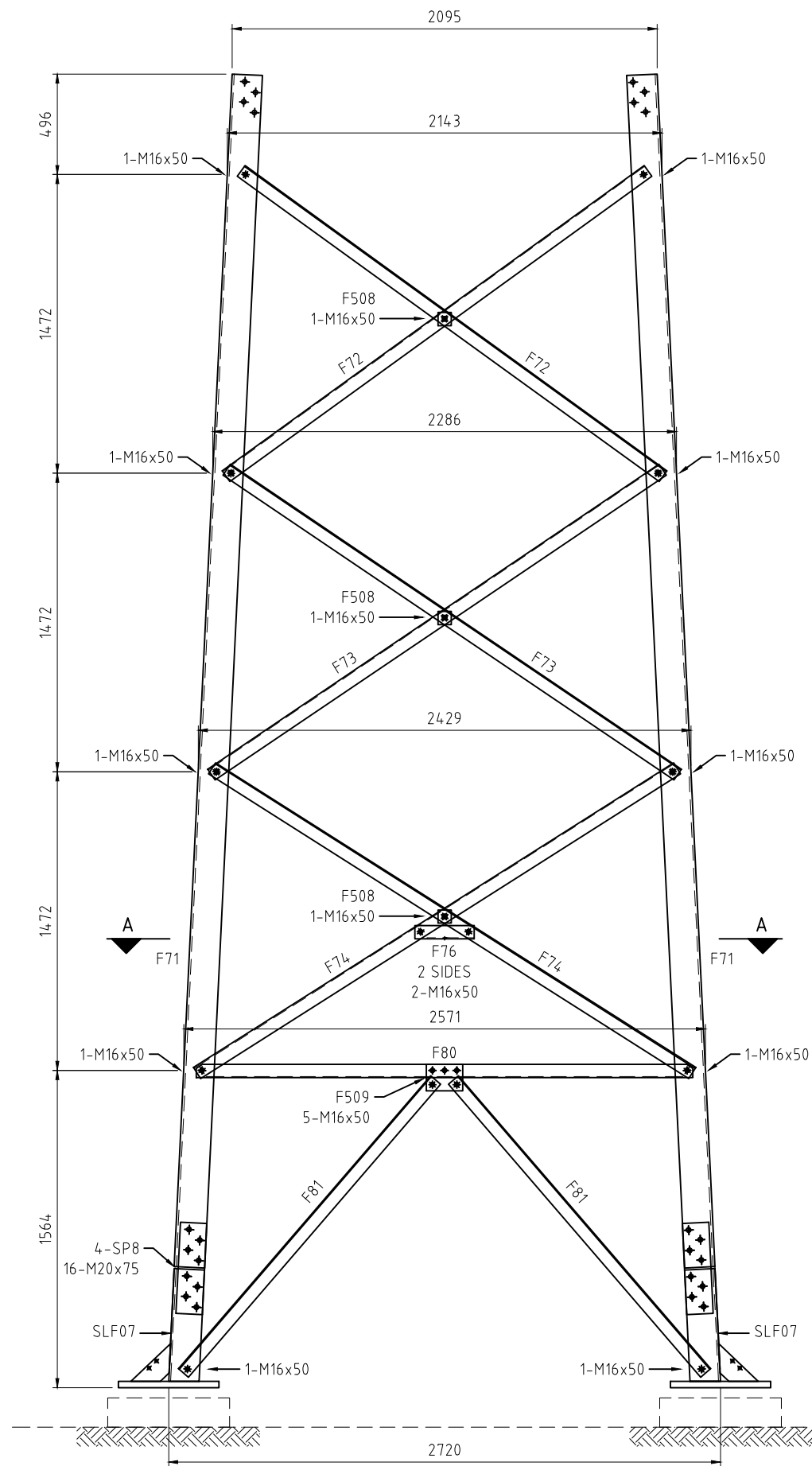
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RJ10762	CB1	6	CABLE BRACKET	299	50 x 6 FL	GR300
RJ10762	CB2	8	CABLE BRACKET	374	50 x 6 FL	GR300
RJ10762	CL1	1	CABLE LADDER	5850	φ42 CHS 3.2	C250
RJ10762	LB54	1	LADDER BRACKET	395	100 x 75 x 6 UA	GR300
RJ10762	LB53	1	LADDER BRACKET	395	100 x 75 x 6 UA	GR300
RJ10762	LB52	1	LADDER BRACKET	370	100 x 75 x 6 UA	GR300
RJ10762	LB51	1	LADDER BRACKET	370	100 x 75 x 6 UA	GR300
RT75	SP702	16	SPLICE PLATE	350	100 x 8mm PL	GR350
RT75	D509	16	PACKER	65	65 x 8 FL	GR300
RT75	D78	1	LADDER SUPPORT	1545	65 x 65 x 5 EA	GR300
RT75	D77	4	HORIZONTAL	906	50 x 50 x 5 EA	GR300
RT75	D76	2	LADDER SUPPORT	1334	50 x 50 x 5 EA	GR300
RT75	D75	8	DIAGONAL	2043	50 x 50 x 5 EA	GR300
RT75	D74	8	DIAGONAL	1959	50 x 50 x 5 EA	GR300
RT75	D73	8	DIAGONAL	1872	50 x 50 x 5 EA	GR300
RT75	D72	8	DIAGONAL	1792	50 x 50 x 5 EA	GR300
RJ10761	D1	4	LEG	5882	125 x 125 x 8 EA	GR300
DRG	COMPONENT	QTY	DESCRIPTION	LENGTH	MATERIAL	GRADE

TOTAL QTY = 95 COMPONENT SCHEDULE

ElectraNet electricity transmission
ELECTRANET DRAWING No. 3 02214/860-001 Rev B
TITLE: RADIO STRUCTURES - CULTANA EAST SUBSTATION
CONTRACT: EC.41041A
SUBTITLE: RADIO TOWER - GENERAL AND ERECTION DETAILS
DRG STATUS: FOR CONSTRUCTION

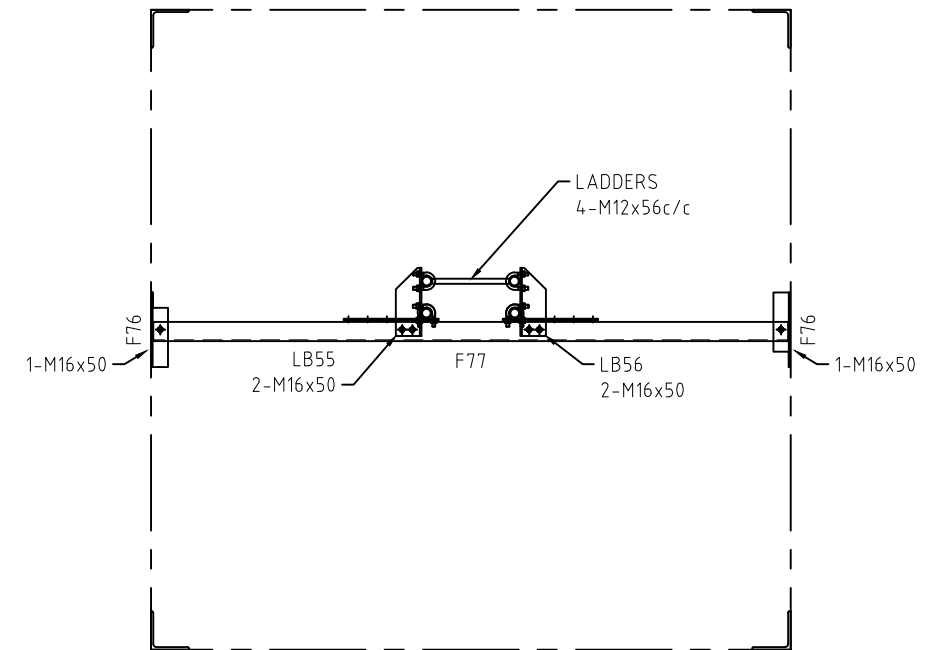
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												DESCRIPTION: MODULE D07			
												REF: -		APPR: M.D	
												DATE: 20-03-25		TOWER TYPE: RT75	
												MODULE: D07			
												SCALE: N.T.S		DRAWN: K.T	
												DATE: 15-01-25		DRG.No. RJ14974-2-D07	
												VER -		REV 0	





LEG SPLICE DETAIL

HARDWARE SCHEDULE				
ITEM / PART	QTY	DESCRIPTION	GRADE/FINISH	SUPPLIED BY
M16x50	90	HEX HEAD BOLT + NUT & FLAT WASHER	GRADE 8.8 GALV	ROAM
M20x75	64	HEX HEAD BOLT + NUT & FLAT WASHER	GRADE 8.8 GALV	ROAM
M12x56 c/c	18	ASSEMBLY + 2 x EXTRA NUTS - UB12-056-090	GRADE 4.6 GALV	ROAM



SECTION A-A

RA13	LA51	1	LADDER	5850	φ42 CHS 3.2	C250
RJ10762	CB2	14	CABLE BRACKET	374	50 x 6 FL	GR300
RJ10762	CL1	1	CABLE LADDER	5850	φ42 CHS 3.2	C250
RJ10762	LB56	1	LADDER BRACKET	268	100 x 75 x 6 UA	GR300
RJ10762	LB55	1	LADDER BRACKET	268	100 x 75 x 6 UA	GR300
RT75	SP8	16	SPLICE PLATE	450	130 x 10mm PL	GR350
RT75	F509	4	PLATE	180	130 x 6 FL	GR300
RT75	F508	12	PACKER	65	65 x 10 FL	GR300
RT75	F81	8	DIAGONAL	1906	65 x 65 x 5 EA	GR300
RT75	F80	4	HORIZONTAL	2447	65 x 65 x 5 EA	GR300
RT75	F77	1	LADDER SUPPORT	2490	75 x 75 x 5 EA	GR300
RT75	F76	2	BRACKET	292	65 x 65 x 5 EA	GR300
RT75	F74	8	DIAGONAL	2803	65 x 65 x 5 EA	GR300
RT75	F73	8	DIAGONAL	2684	65 x 65 x 5 EA	GR300
RT75	F72	8	DIAGONAL	2567	65 x 65 x 5 EA	GR300
RT75	F71	4	LEG	5884	150 x 150 x 10 EA	GR300
RT75	SLF07	4	STUB LEG	587	150 x 150 x 10 EA	GR300
DRG	COMPONENT	QTY	DESCRIPTION	LENGTH	MATERIAL	GRADE
TOTAL QTY = 93				COMPONENT SCHEDULE		

ElectraNet electricity transmission

ELECTRANET DRAWING No. 3 02214/860-001 Rev B

TITLE: RADIO STRUCTURES CULTANA EAST SUBSTATION

CONTRACT: EC.41041A

SUBTITLE: RADIO TOWER - GENERAL AND ERECTION DETAILS

DRG STATUS: FOR CONSTRUCTION

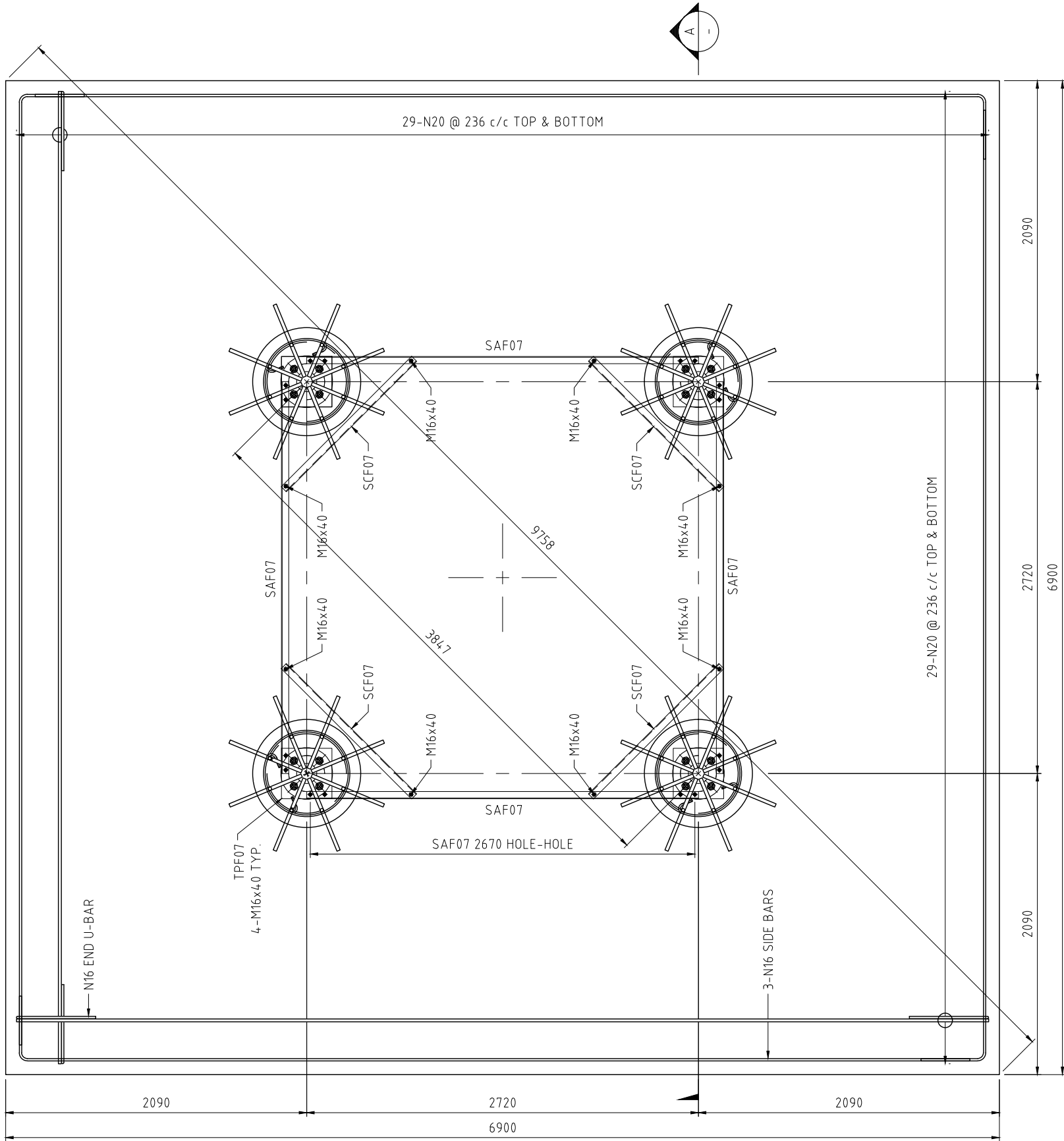
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								DESCRIPTION: MODULE FB07 (BASE)						
		0	ISSUED FOR CONSTRUCTION	L.C	20-03-25			REF: -	APPR: M.D	DATE: 20-03-25	TOWER TYPE: RT75	MODULE: F07		
	REFERENCE DRAWINGS	REF	REVISION	BY	DATE			SCALE: (A3) N.T.S	DRAWN: K.T	DATE: 15-01-25	DRG.No. RJ14974-2-FB07	VER -	REV 0	



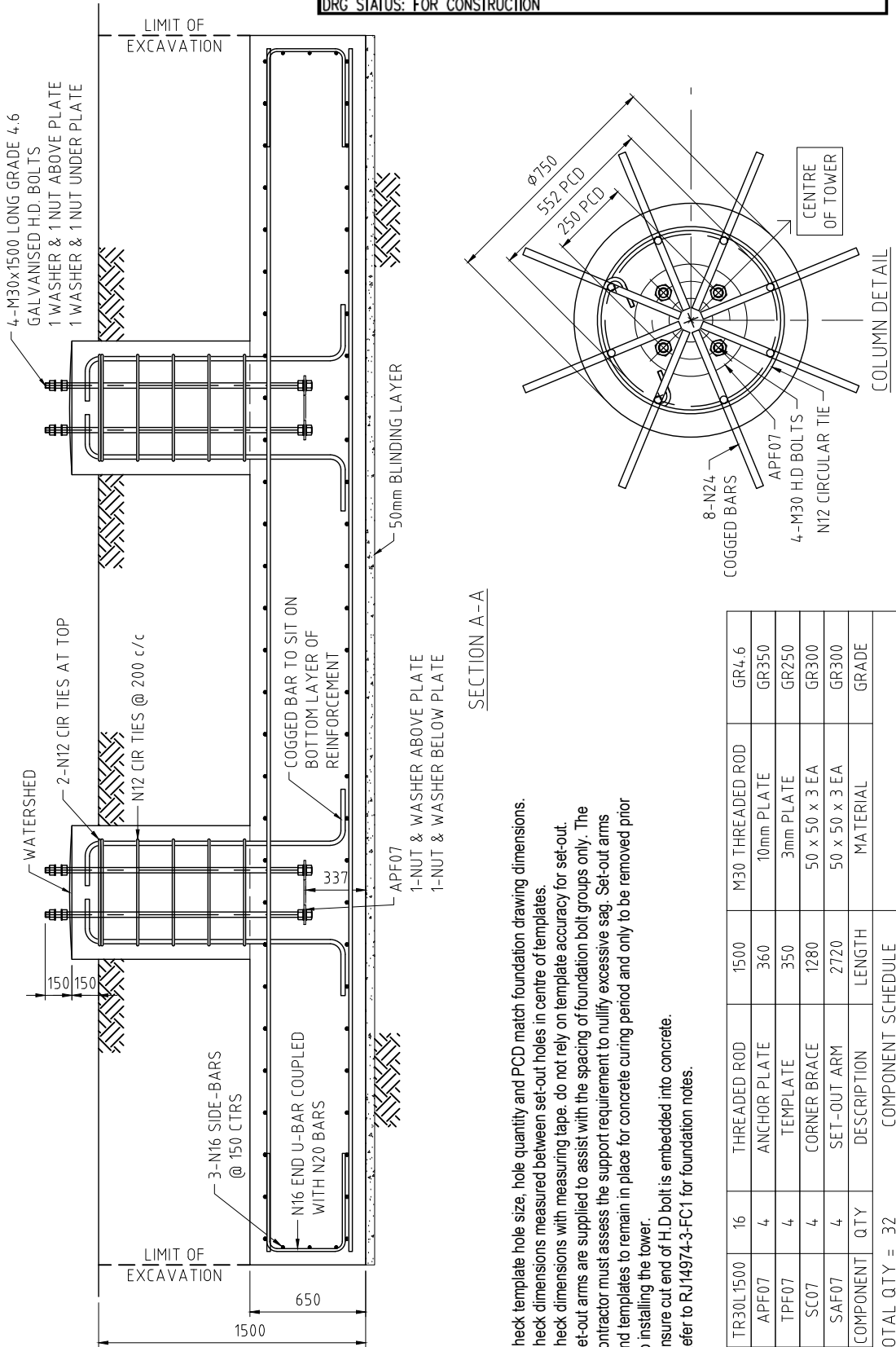
RJ14974-3-1-S2 RJ14974-3-FC1	FOUNDATION SHEET 2 OF 2 STANDARD FOUNDATION NOTES	0	ISSUED FOR CONSTRUCTION	L.C	20-03-25		ROAM PTY LTD 437 VICTORIA ROAD MALAGA W.A. 6090 AUSTRALIA TEL (618) 9248 4950 FAX (618) 9248 4951 THIS DRAWING PRODUCED BY ROAM IS NOT SOLD BUT LENT. ITS CONTENTS MUST NOT BE COPIED, TRACED OR COMMUNICATED TO ANY PERSON WHATSOEVER WITHOUT WRITTEN CONSENT OF ROAM PTY. LTD.	DESIGN: M.D	DATE: 14-01-25	ELECTRANET 30m RT75 TOWER - CULTANA EAST SLAB FOUNDATION - SHEET 1 OF 2			
								APPR: M.D	DATE: 20-03-25				
								REFERENCE DRAWINGS		REF	REVISION	BY	DATE

HARDWARE SCHEDULE			GRADE/FINISH	SUPPLIED BY
ITEM / PART	QTY	DESCRIPTION		
#M16x40	24	HEX HEAD BOLT + NUT & FLAT WASHER	GRADE 8.8 GALV	ROAM
M30 WASHER	64	FLAT WASHER	GRADE 4.6 GALV	ROAM
M30 NUT	64	HEX NUT	GRADE 4.6 GALV	ROAM

REINFORCEMENT SCHEDULE			REMARKS	SUPPLIED BY
ITEM / PART	QTY	DESCRIPTION		
N16 x 550	116	N16 U-BAR - REFER DETAIL	D500N	OTHERS
N20 x 6750	12	STRAIGHT BAR	D500N	OTHERS
N16 x 6600	12	N16 COGGED BAR - REFER DETAIL	D500N	OTHERS
N24 x 1460	32	N24 COGGED BAR - REFER DETAIL	D500N	OTHERS
N12 CIRC TIE	24	N12 CIRCULAR TIE - REFER DETAIL	D500N	OTHERS
N12 CHAIR	36	N12 SUPPORT CHAIR - REFER DETAIL	D500N	OTHERS
CONC BLOCK	50	75mm HIGH CONCRETE BLOCK (75x65x50)		OTHERS
CONCRETE	32.7m ³	FOUNDATION CONCRETE FOR EXPOSURE (CLASSIFICATION B1)	S4.0	OTHERS
BLINDING	2.4m ³	BLINDING CONCRETE	N20	OTHERS



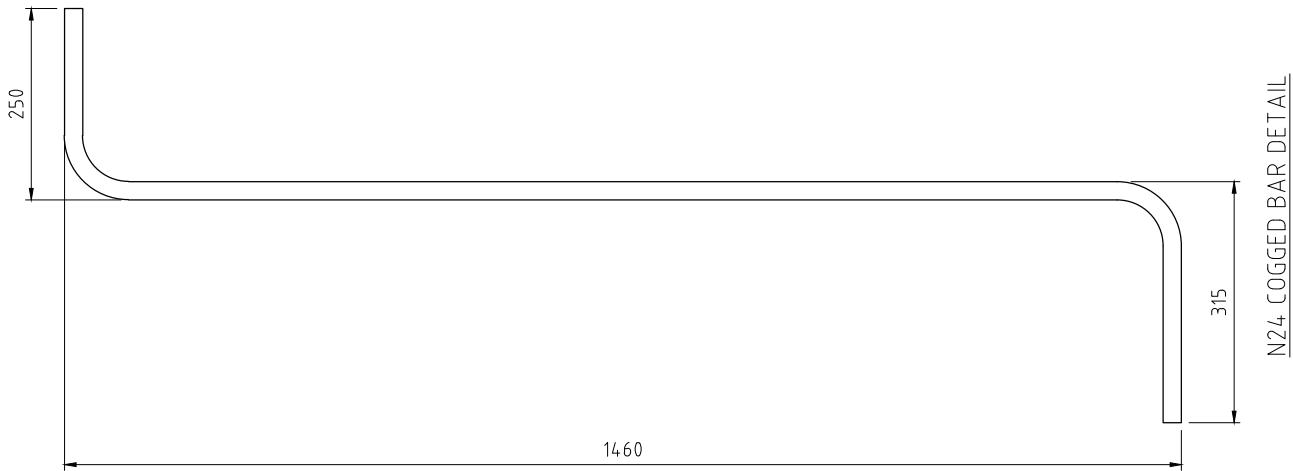
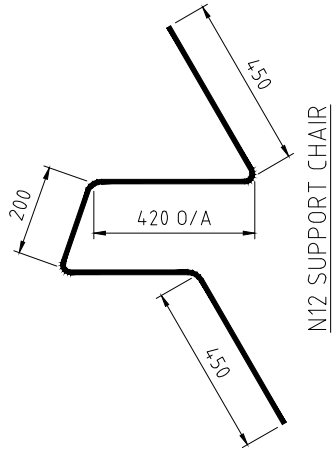
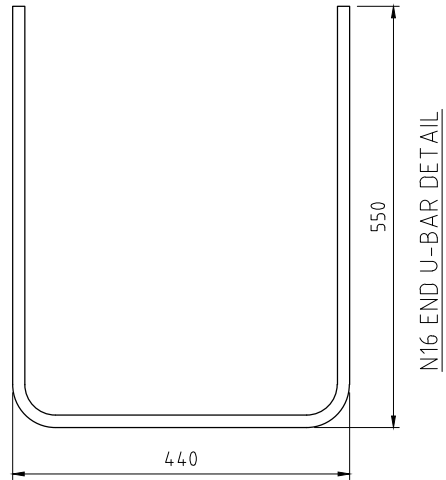
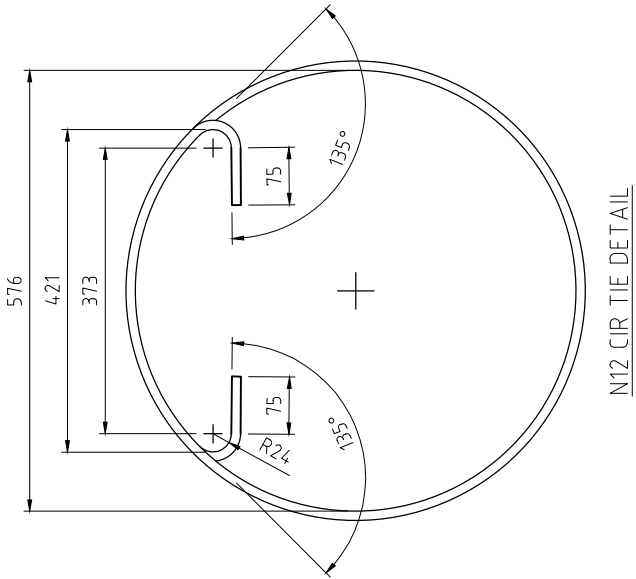
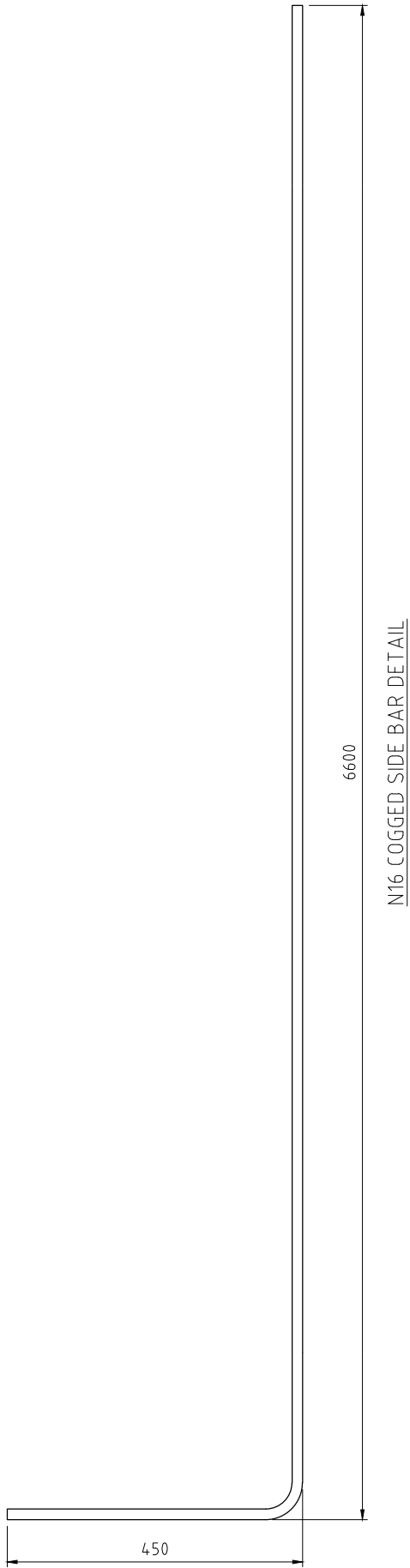
PLAN SHOWING REINFORCEMENT



Note:
1. Check template hole size, hole quantity and PCD match foundation drawing dimensions.
2. Check dimensions measured between set-out holes in centre of templates.
3. Check dimensions with measuring tape. do not rely on template accuracy for set-out.
4. Set-out arms are supplied to assist with the spacing of foundation bolt groups only. The contractor must assess the support requirement to nullify excessive sag. Set-out arms and templates to remain in place for concrete curing period and only to be removed prior to installing the tower.
5. Ensure cut end of H.D bolt is embedded into concrete.
6. Refer to RJ14974-3-FC1 for foundation notes.

RA12	TR30L1500	16	THREADED ROD	1500	M30 THREADED ROD	GR4.6
RT75	APF07	4	ANCHOR PLATE	360	10mm PLATE	GR350
RT75	TPF07	4	TEMPLATE	350	3mm PLATE	GR250
RT75	SC07	4	CORNER BRACE	1280	50 x 50 x 3 EA	GR300
RT75	SAF07	4	SET-OUT ARM	2720	50 x 50 x 3 EA	GR300
DRG	COMPONENT	QTY	DESCRIPTION	LENGTH	MATERIAL	GRADE
TOTAL QTY =		32	COMPONENT SCHEDULE			

ElectraNet electricity transmission		
ELECTRANET DRAWING No. 3 02214/860-001 Rev B		
TITLE: RADIO STRUCTURES CULTANA EAST SUBSTATION		
CONTRACT: EC.41041A		
SUBTITLE: RADIO TOWER - GENERAL AND ERECTION DETAILS		
DRG STATUS: FOR CONSTRUCTION		



ElectraNet electricity transmission

ELECTRANET DRAWING No. 3 02214/860-001 Rev B

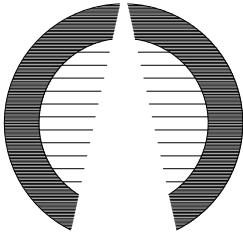
TITLE: RADIO STRUCTURES CULTANA EAST SUBSTATION

CONTRACT: EC.41041A

SUBTITLE: RADIO TOWER - GENERAL AND ERECTION DETAILS

DRG STATUS: FOR CONSTRUCTION



REFERENCE DRAWINGS	REF	REFER TO SHEET 1	BY	DATE		ROAM PTY LTD 437 VICTORIA ROAD MALAGA W.A. 6090 AUSTRALIA TEL (618) 9248 4950 FAX (618) 9248 4951 THIS DRAWING PRODUCED BY ROAM IS NOT SOLD BUT LENT. ITS CONTENTS MUST NOT BE COPIED, TRACED OR COMMUNICATED TO ANY PERSON WHATSOEVER WITHOUT WRITTEN CONSENT OF ROAM PTY. LTD.	DESIGN: M.D	DATE: 14-01-25	ELECTRANET 30m RT75 TOWER - CULTANA EAST SLAB FOUNDATION - SHEET 2 OF 2			
							APPR: M.D	DATE: 20-03-25				
							DRAWN: K.T	DATE: 14-01-25	SCALE: (A3) N.T.S	DWG. No. RJ14974-3-1-S2	VER. -	REV. 0