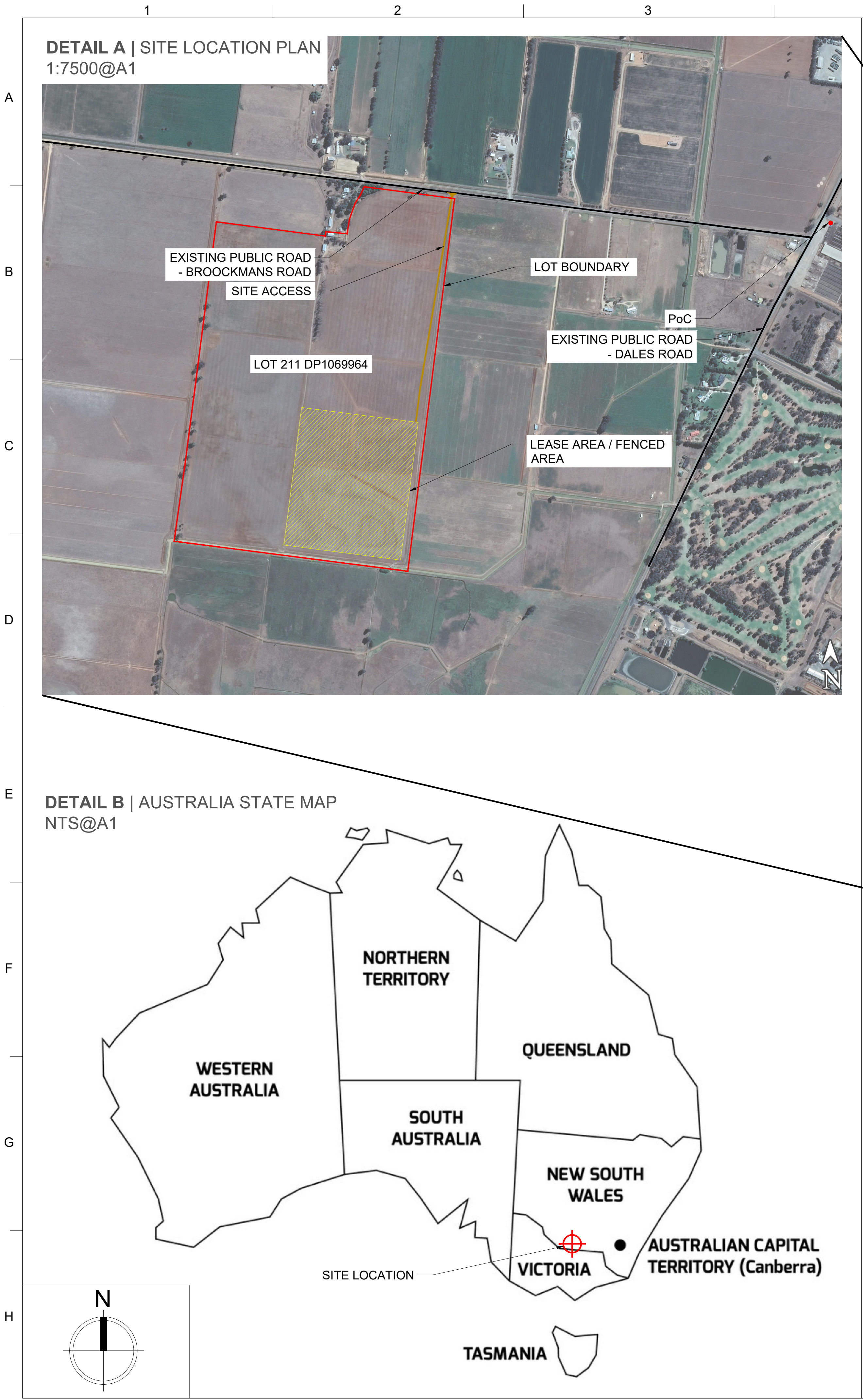




PROVIDENCE
ASSET GROUP

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CONSTRUCTION

LOCATION PLAN

Finley
231 Brockmans Road, Finley NSW
NEW SOUTH WALES, AUSTRALIA

REV	DATE	DESCRIPTION	DWN	CHKD
1	03/03/20	ISSUE FOR INITIAL SUBMITTAL	UZ	JLG
2	11/03/20	ISSUE FOR REVISED INITIAL SUBMITTAL	UZ	JLG
3	30/04/20	INCLUDING LOT LINES	DF	JLG

LATITUDE:
35.65 ° S

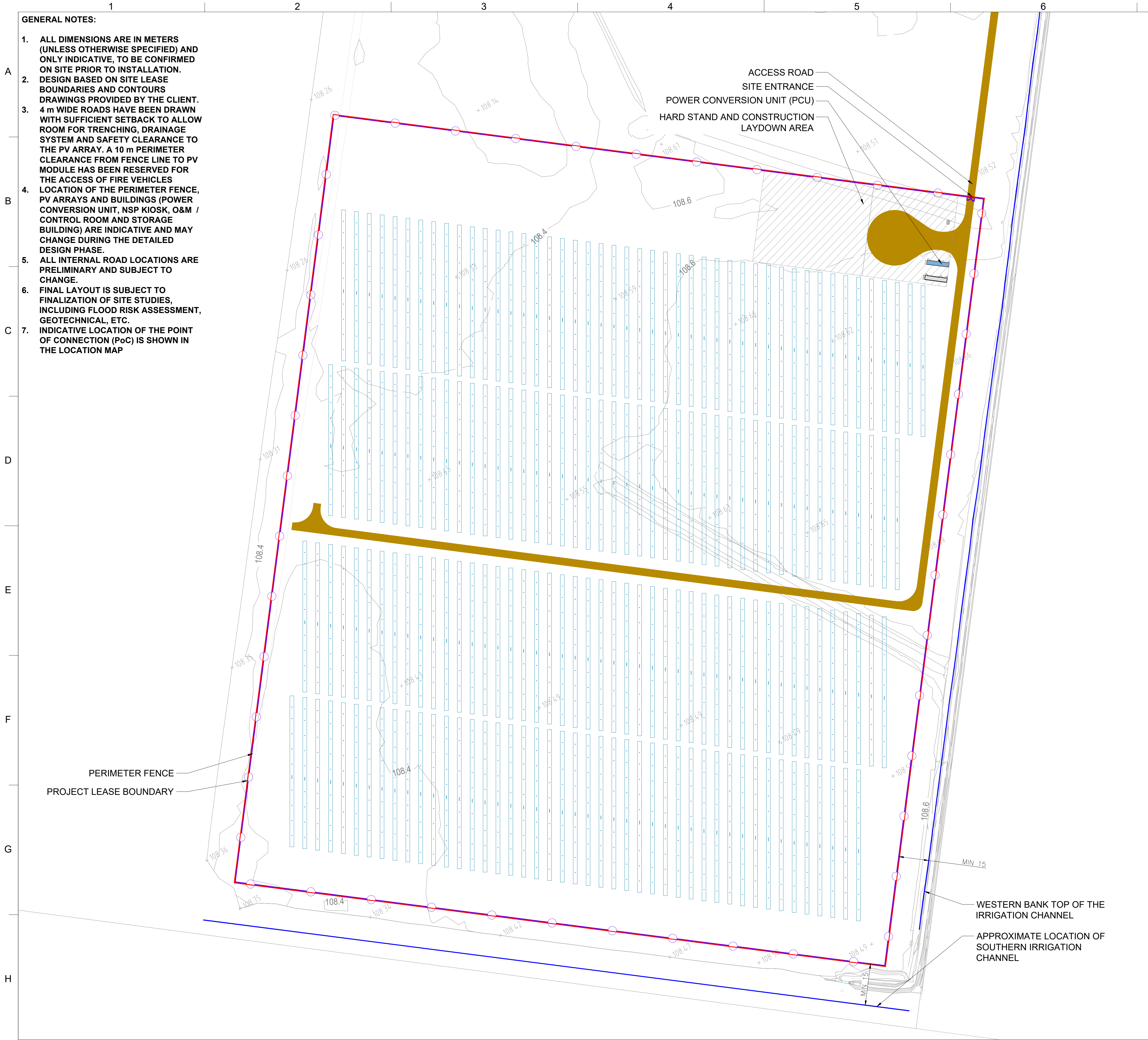
LONGITUDE:
145.55 ° E

SCALE
AS SHOWN

ORIGINAL SIZE: ISO A1

SHEET

FI-1



LOCATION MAP - SCALE: 1:1,500,000

LEGEND

- PROJECT LEASE BOUNDARY
- EXISTING CONTOUR LINE
- PERIMETER FENCE
- PROPOSED ACCESS/MAINTENANCE ROAD
- HARD STAND AND CONSTRUCTION LAYDOWN AREA
- PROPOSED GATE
- POWER CONVERSION UNIT (PCU)
- NETWORK SERVICE PROVIDER (NSP) KIOSK
- O&M BUILDING / CONTROL ROOM AND STORAGE
- PROPOSED PV TRACKER

SYSTEM SUMMARY

ELECTRICAL CONFIGURATION:

TOTAL PV PLANT CAPACITY (DC): 6,033.3 kWp

TOTAL INVERTER CAPACITY (AC): 5,000.00 kVA (@35C)

PV PLANT MAXIMUM EXPORT CAPACITY (AC): 4,990.00 kVA

DC:AC RATIO: 1.21:1 (REFERRED TO MAXIMUM EXPORT CAPACITY)

STRINGS OF 26 MODULES

273 STRINGS PER INVERTER

PV MODULES:

MFR: RISEN SOLAR TECHNOLOGY

MODEL: JAGER PLUS RSM156-6-425M

NAMEPLATE: 425Wp

QUANTITY: 14,196

INVERTERS:

MFR: SMA

MODEL: SUNNY CENTRAL 2500-EV

NAMEPLATE: 2500 kVA@35C; 2250 kVA@50C

QUANTITY: 2

MV POWER STATION:

MFR: SMA

MODEL: MV POWER STATION 5000-S-AU

QUANTITY: 1

TRACKER ARRAY:

MFR: NEXTRACKER

MODEL: NX HORIZON (1P SINGLE-AXIS TRACKER)

CONFIGURATION: 1 MODULE IN PORTRAIT 3 STRINGS PER ROW

RANGE OF MOTION: E-W +/-60°

PITCH: 7 M

GCR: 31.1%

QUANTITY: 1P78 - 182

FENCE AREA: ~14.97 HA

LEASE AREA: ~14.97 HA

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SOLAR FARM GENERAL ARRANGEMENT

Finley

231 Brookmans Road, Finley NSW
NEW SOUTH WALES, AUSTRALIA

REV	DATE	DESCRIPTION	CHKD
1	03/03/20	ISSUE FOR INITIAL SUBMITTAL	JLG
2	11/03/20	ISSUE FOR REVISED INITIAL SUBMITTAL	JLG
3			

LATITUDE: 35.65 ° S

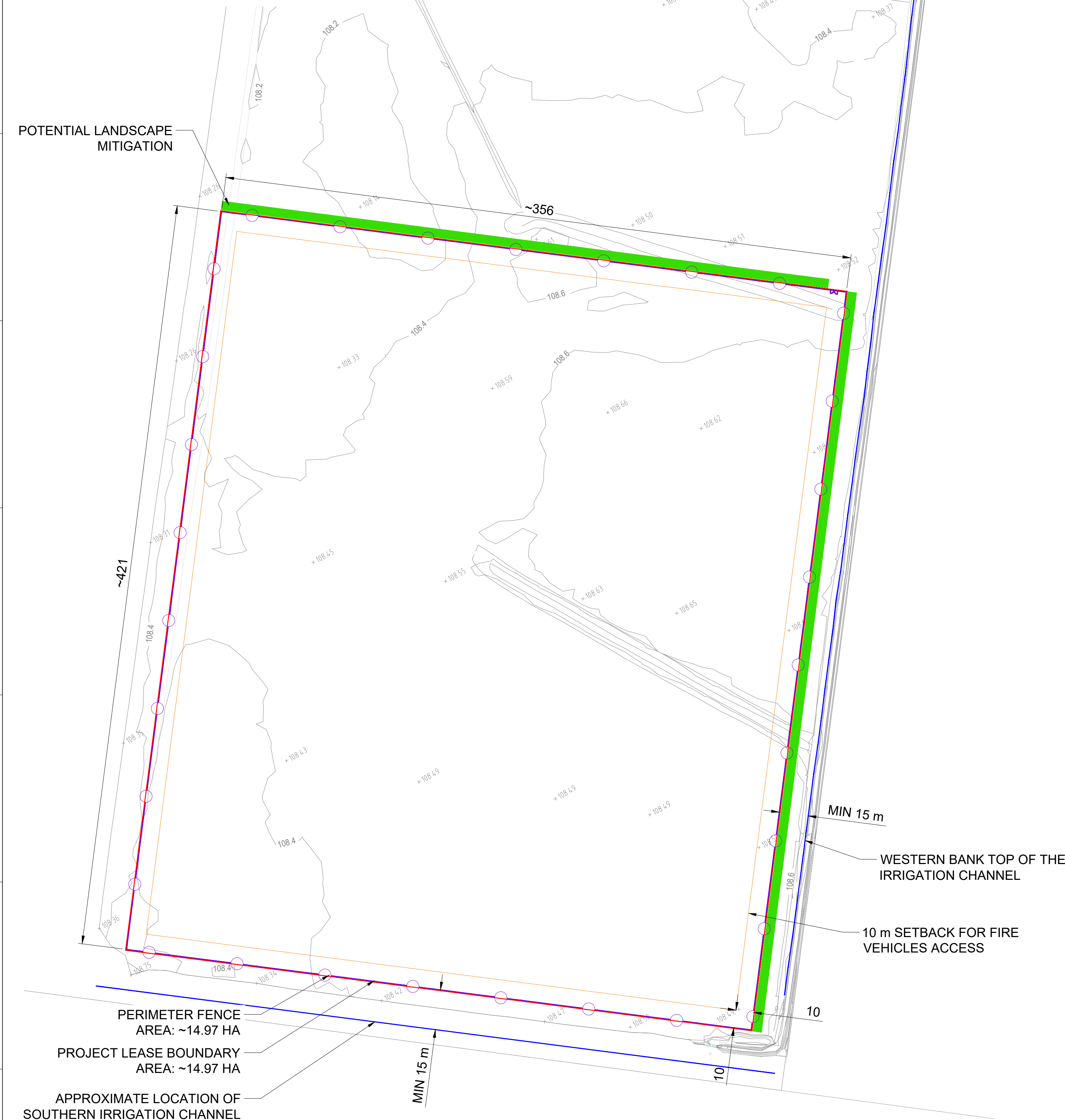
LONGITUDE: 145.55 ° E

SCALE 1:1000

ORIGINAL SIZE: ISO A1

SHEET FI-2

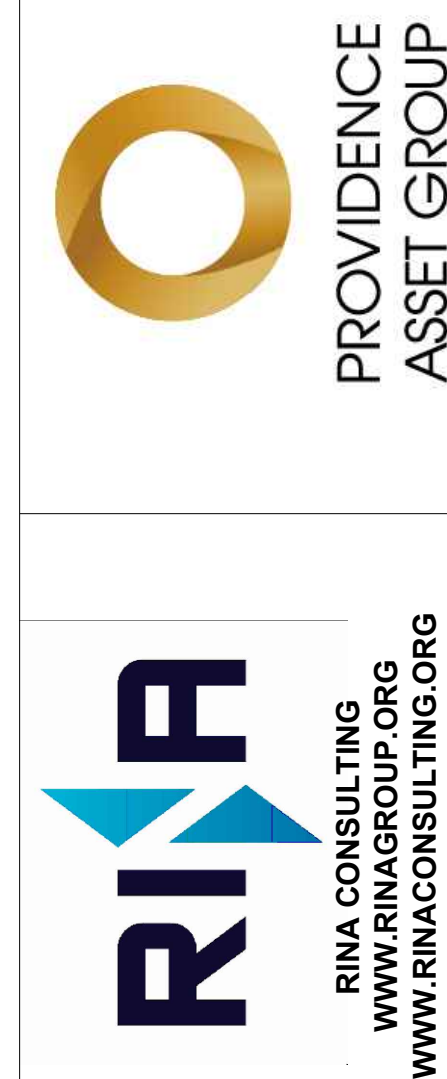
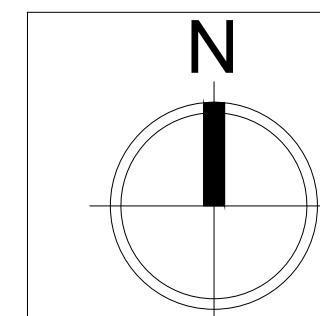
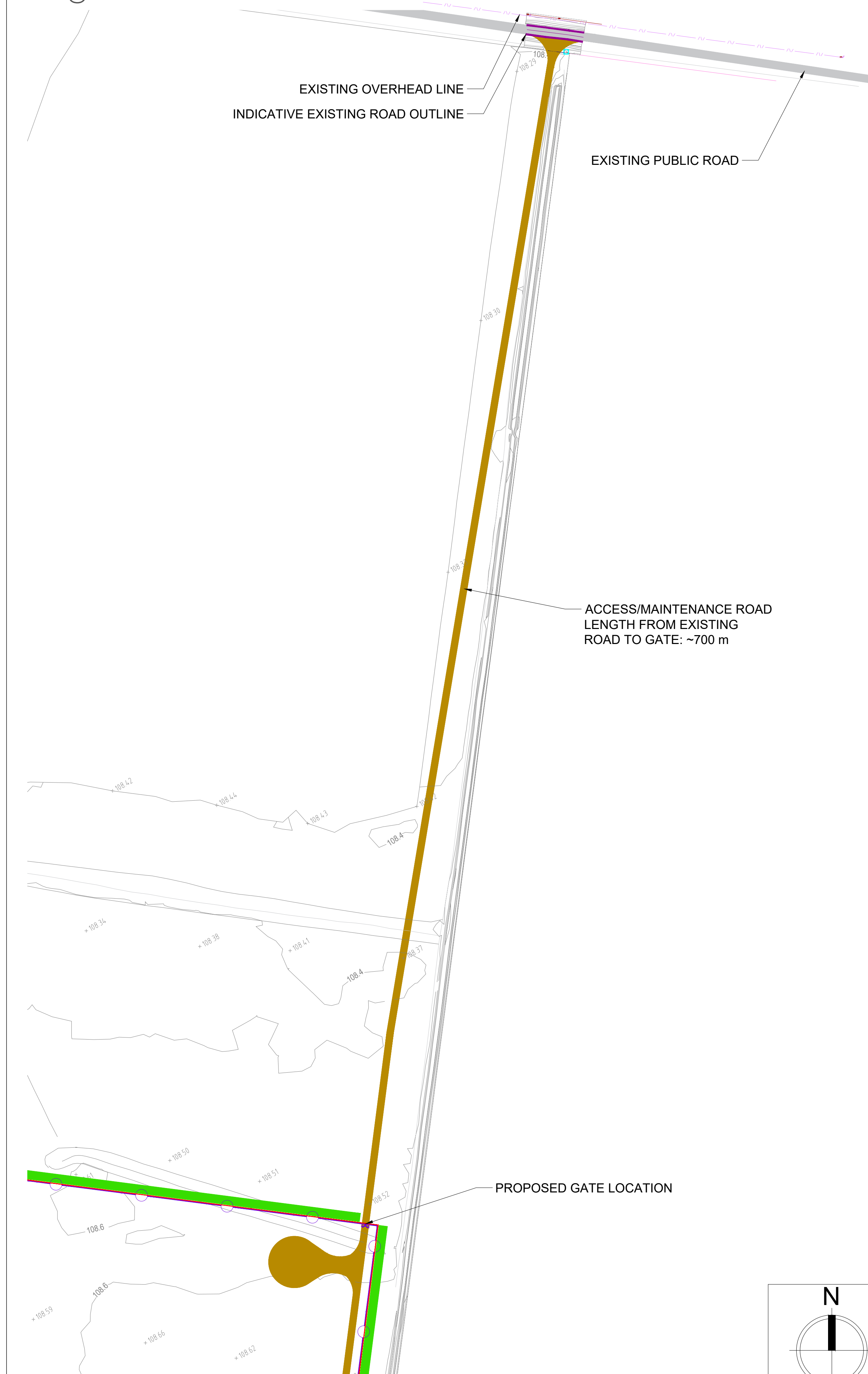
DETAIL A | SETBACK INFORMATION
1:1500@A1



GENERAL NOTES:

1. ALL DIMENSIONS ARE IN METERS (UNLESS OTHERWISE SPECIFIED) AND ONLY INDICATIVE, TO BE CONFIRMED ON SITE PRIOR TO INSTALLATION.
2. DESIGN BASED ON SITE LEASE BOUNDARIES AND CONTOURS DRAWINGS PROVIDED BY THE CLIENT.
3. 4 m WIDE ROADS HAVE BEEN DRAWN WITH SUFFICIENT SETBACK TO ALLOW ROOM FOR TRENCHING, DRAINAGE SYSTEM AND SAFETY CLEARANCE TO THE PV ARRAY. A 10 m PERIMETER CLEARANCE FROM FENCE LINE TO PV MODULE HAS BEEN RESERVED FOR THE ACCESS OF FIRE VEHICLES
4. LOCATION OF THE PERIMETER FENCE ARE INDICATIVE AND MAY CHANGE DURING THE DETAILED DESIGN PHASE.
5. FINAL LAYOUT IS SUBJECT TO FINALIZATION OF SITE STUDIES, INCLUDING FLOOD RISK ASSESSMENT, GEOTECHNICAL, ETC.
6. BASED ON THE CONTOUR DRAWINGS THE SITE IS PRACTICALLY FLAT

DETAIL B | PROPOSED ACCESS ROAD ROUTE
1:1500@A1



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CONSTRUCTION**

KEY SITE DETAILS

Finley
231 Brookmans Road, Finley NSW
NEW SOUTH WALES, AUSTRALIA

REV	DATE	DESCRIPTION	DWN	CHKD
1	03/03/20	ISSUE FOR INITIAL SUBMITTAL	UZ	JLG
2	11/03/20	ISSUE FOR REVISED INITIAL SUBMITTAL	UZ	JLG
3				

LATITUDE:
35.65 ° S

LONGITUDE:
145.55 ° E

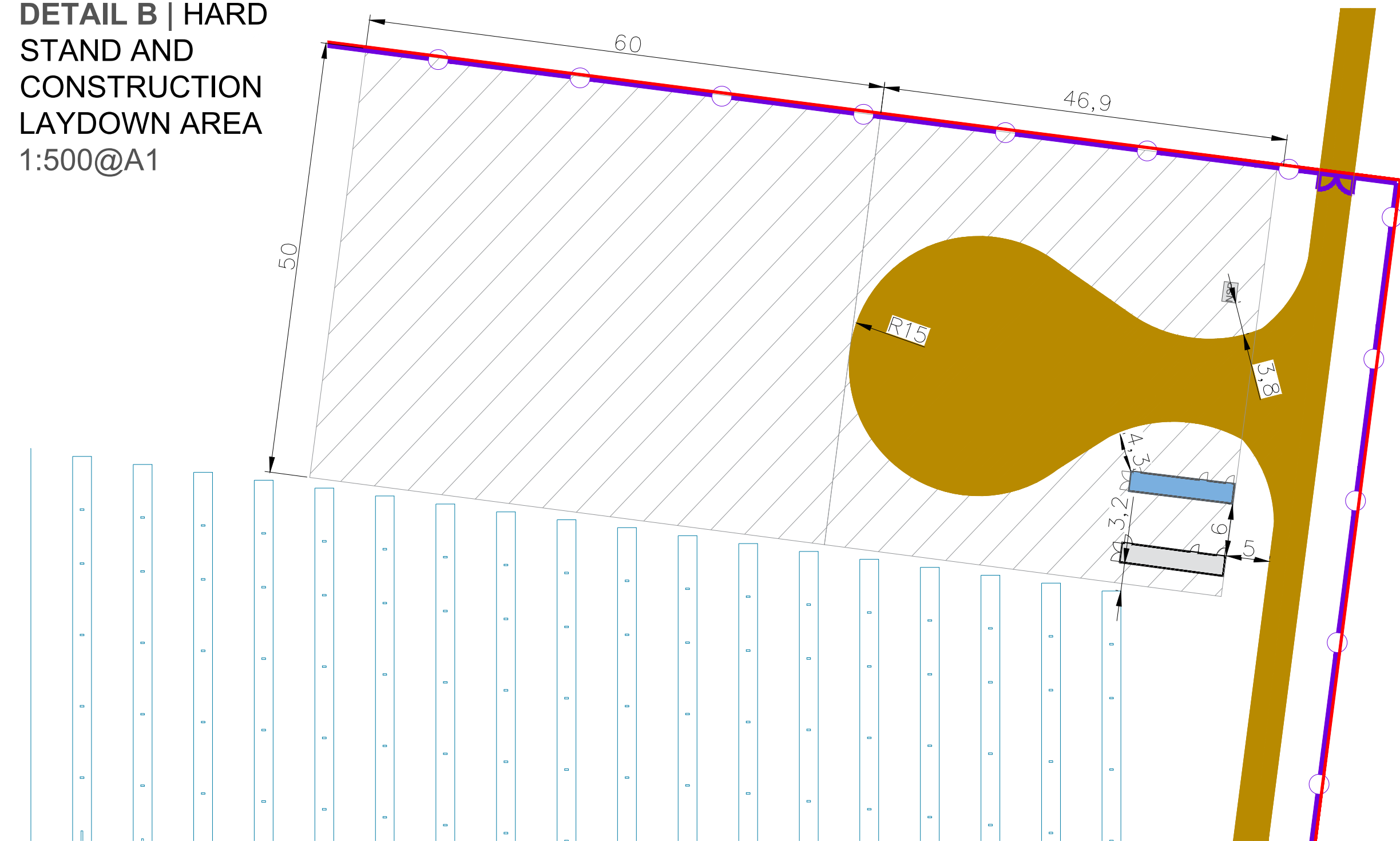
SCALE	AS SHOWN
ORIGINAL SIZE:	ISO A1

SHEET	FI-3
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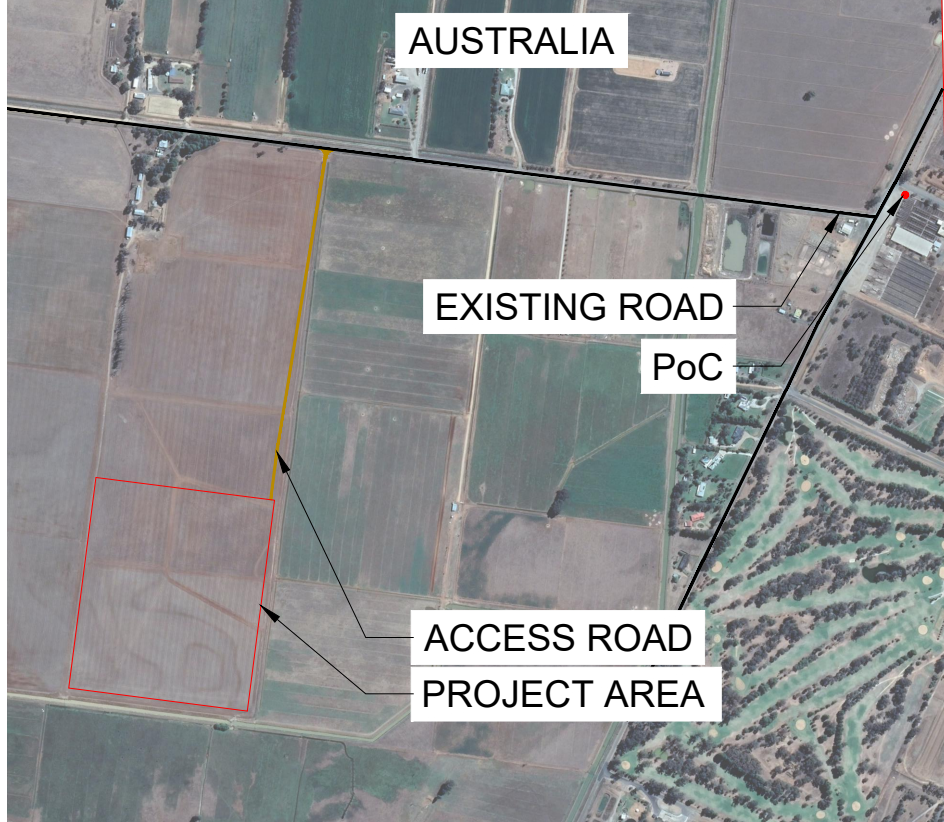
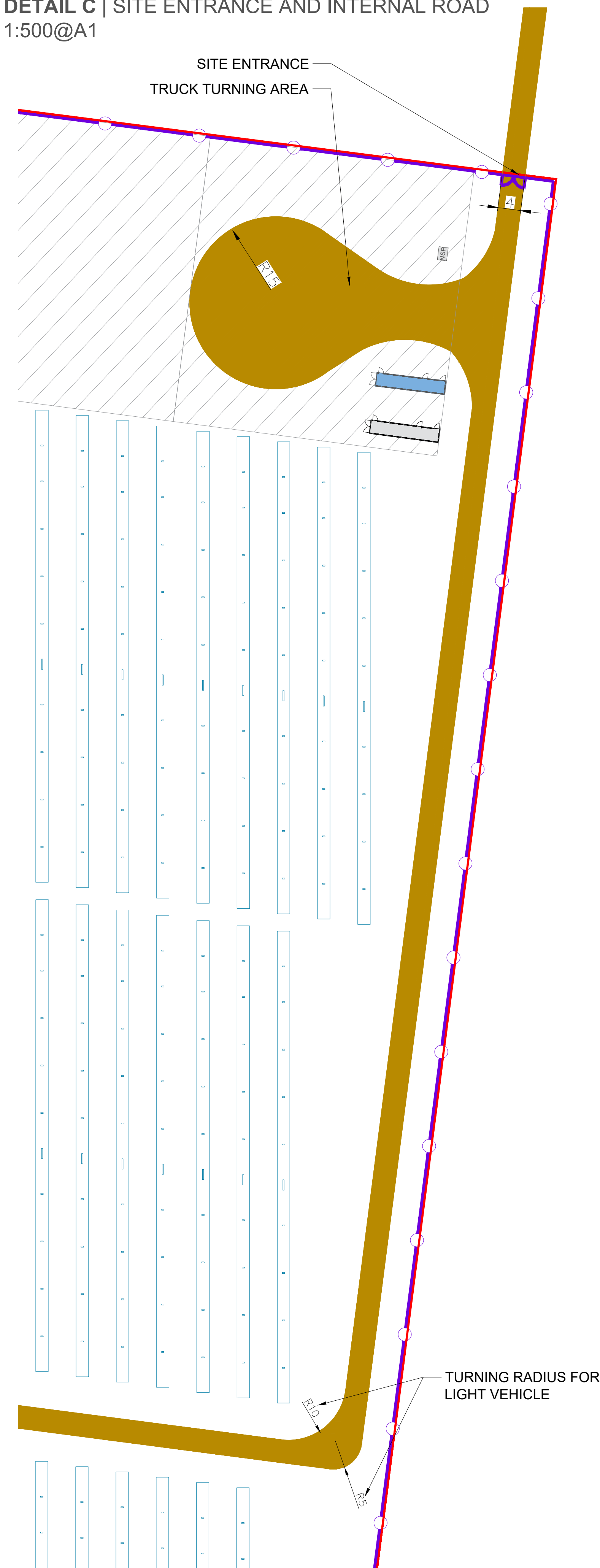
DETAIL A | SETBACK INFORMATION
1:1500@A1



DETAIL B | HARD
STAND AND
CONSTRUCTION
LAYDOWN AREA
1:500@A1

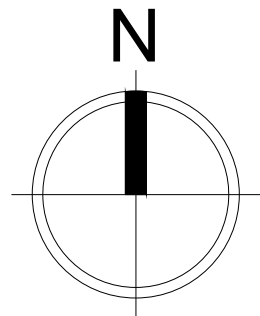


DETAIL C | SITE ENTRANCE AND INTERNAL ROAD
1:500@A1



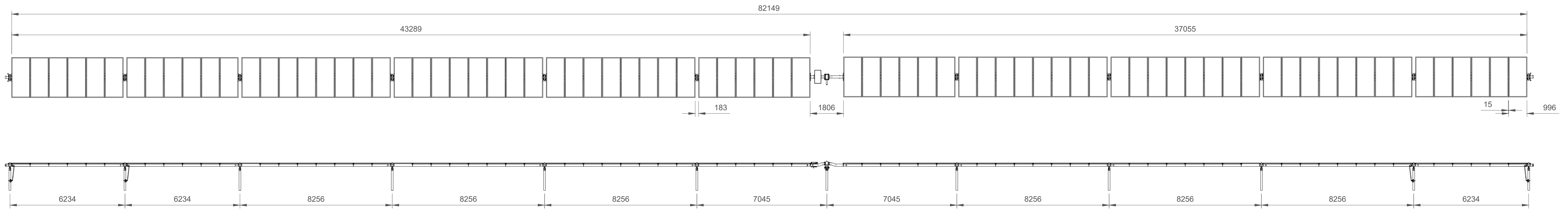
LEGEND	
	PROJECT LEASE BOUNDARY
	EXISTING CONTOUR LINE
	PERIMETER FENCE
	PROPOSED ACCESS/MAINTENANCE ROAD
	HARD STAND AND CONSTRUCTION LAYDOWN AREA
	PROPOSED GATE
	POWER CONVERSION UNIT (PCU)
	NETWORK SERVICE PROVIDER (NSP) KIOSK
	O&M BUILDING / CONTROL ROOM AND STORAGE
	PROPOSED PV TRACKER

SYSTEM SUMMARY	
ELECTRICAL CONFIGURATION:	
TOTAL PV PLANT CAPACITY (DC): 6,033.3 kWp	
TOTAL INVERTER CAPACITY (AC): 5,000.00 kVA (@35C)	
PV PLANT MAXIMUM EXPORT CAPACITY (AC): 4,990.00 kVA	
DC:AC RATIO: 1.21:1 (REFERRED TO MAXIMUM EXPORT CAPACITY)	
STRINGS OF 26 MODULES	
273 STRINGS PER INVERTER	
PV MODULES:	
MFR:	RISEN SOLAR TECHNOLOGY
MODEL:	JAGER PLUS RSM156-6-425M
NAMEPLATE:	425Wp
QUANTITY:	14,196
INVERTERS:	
MFR:	SMA
MODEL:	SUNNY CENTRAL 2500-EV
NAMEPLATE:	2500 kVA@35C; 2250 kVA@50C
QUANTITY:	2
MV POWER STATION:	
MFR:	SMA
MODEL:	MV POWER STATION 5000-S-AU
QUANTITY:	1
TRACKER ARRAY:	
MFR:	NEXTRACKER
MODEL:	NX HORIZON (1P SINGLE-AXIS TRACKER)
CONFIGURATION:	1 MODULE IN PORTRAIT 3 STRINGS PER ROW
RANGE OF MOTION:	E-W +/-60°
PITCH:	7 M
GCR:	31.1%
QUANTITY:	1P78 - 182
FENCE AREA:	~14.97 HA
LEASE AREA:	~14.97 HA

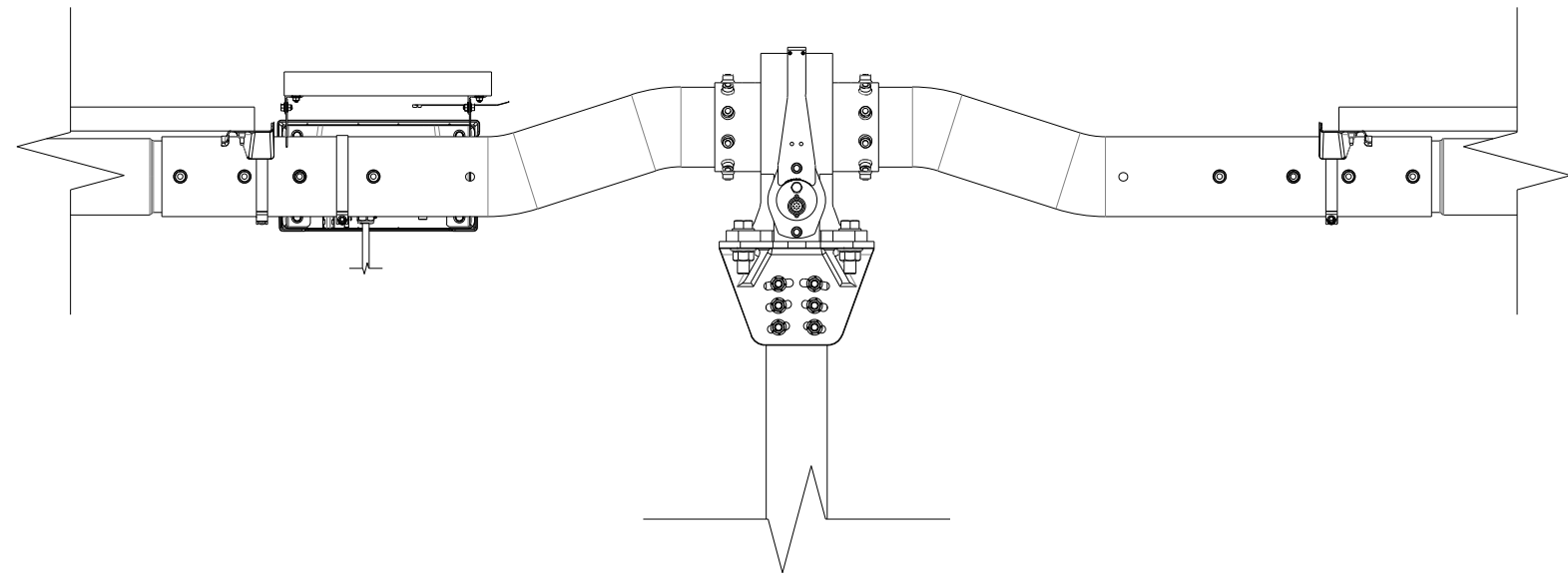


REV	DATE	DESCRIPTION	CHKD	DWN
1	03/03/20	ISSUE FOR INITIAL SUBMITTAL	JLG	JLG
2	11/03/20	ISSUE FOR REVISED INITIAL SUBMITTAL	UZ	UZ
3				

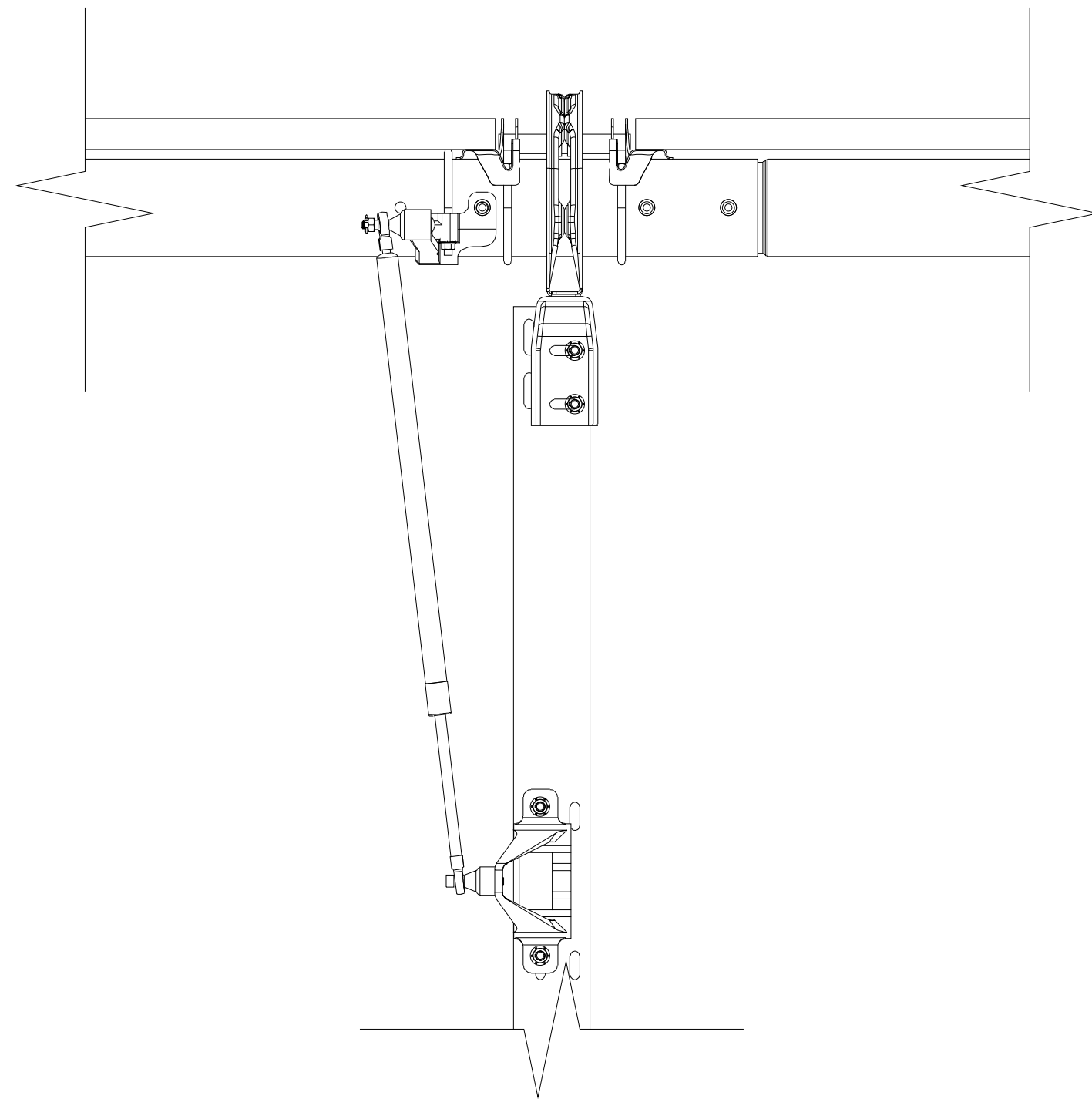
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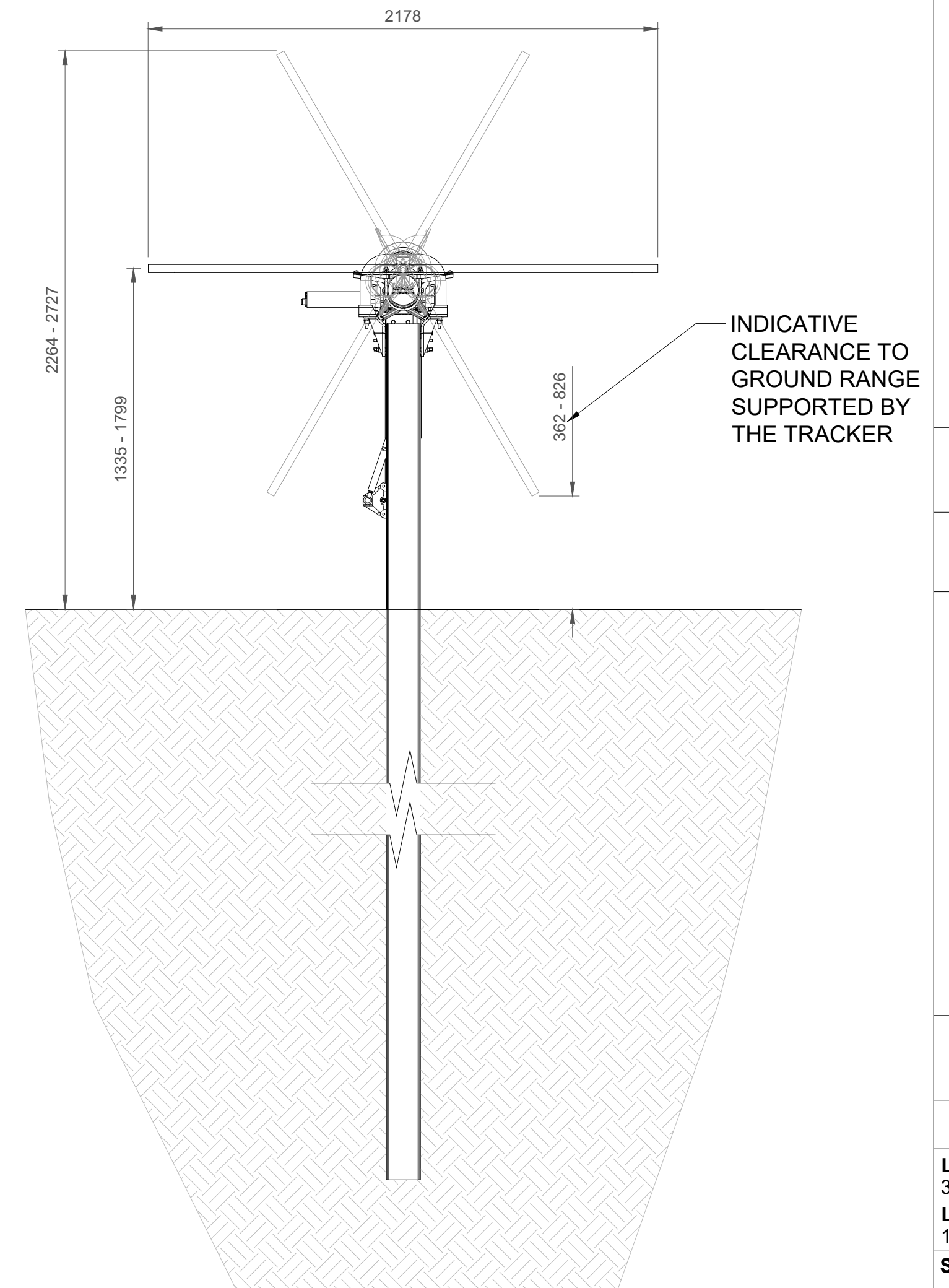
NTS@A1



EACH END OF THE ROW, TWO PER ROW)



1:20@A1



GENERAL NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETERS (UNLESS OTHERWISE SPECIFIED) AND ONLY INDICATIVE, TO BE CONFIRMED ON SITE PRIOR TO INSTALLATION.
2. A TYPICAL MODULES GROUND CLEARANCE OF 600 mm (WHERE POSSIBLE) IS EXPECTED TO MINIMIZE RISK ON DC CABLES DUE TO LIVESTOCK. GROUND CLEARANCE MAY VARY DEPENDING ON SITE TOPOGRAPHY AND REQUIRED EARTHWORKS FOR EACH CASE

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CONSTRUCTION**

TRACKER DETAILS

Finley
231 Brookmans Road, Finley NSW
NEW SOUTH WALES, AUSTRALIA

REV	DATE	DESCRIPTION	DWN	CHKD
1	03/03/20	ISSUE FOR INITIAL SUBMITTAL	UZ	JLG
2	11/03/20	ISSUE FOR REVISED INITIAL SUBMITTAL	UZ	JLG
3				

ATTITUDE:
1.65 ° S

LONGITUDE:
5.55 ° E

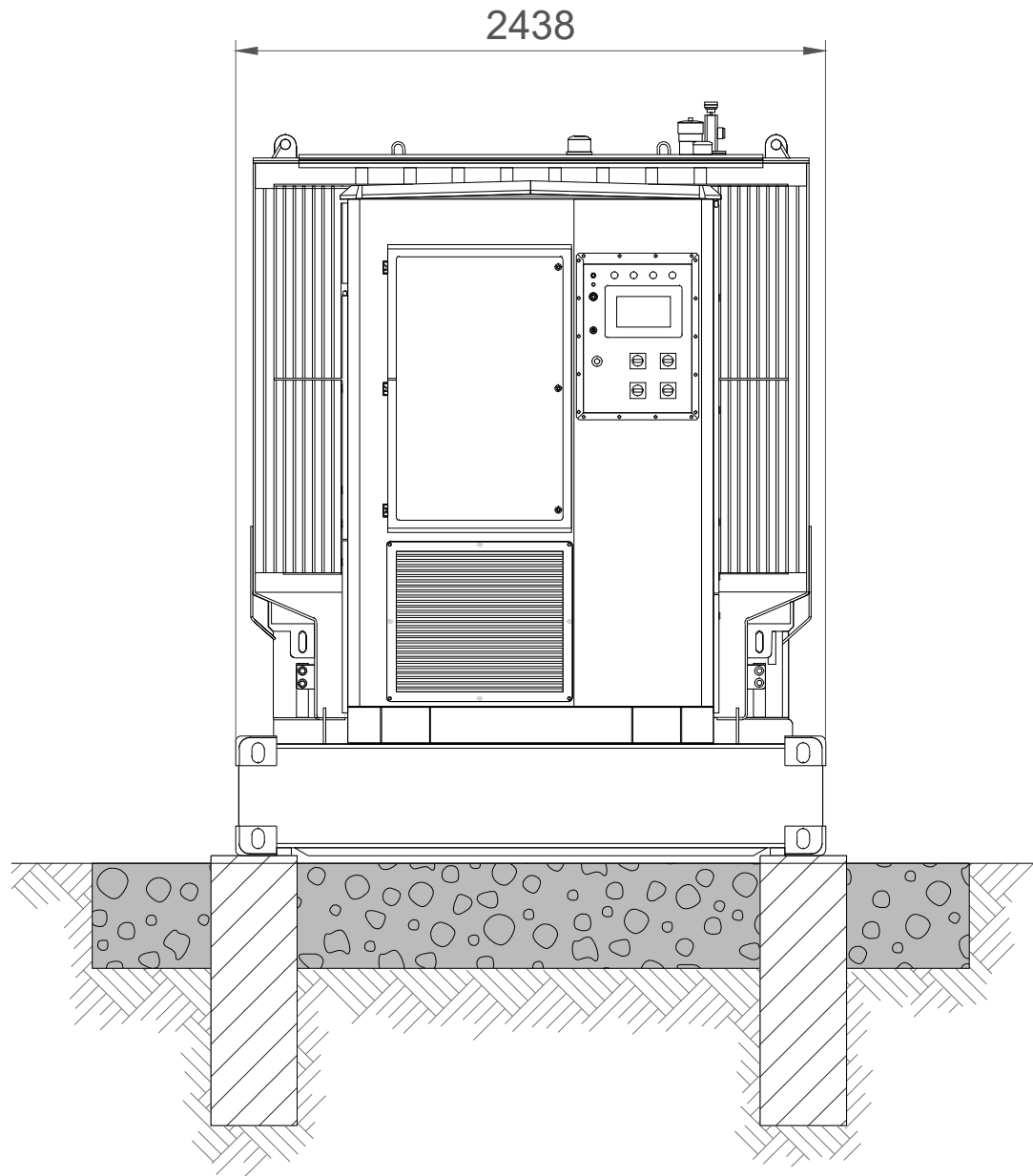
SCALE
AS SHOWN
ORIGINAL SIZE: ISO A1

FI-5

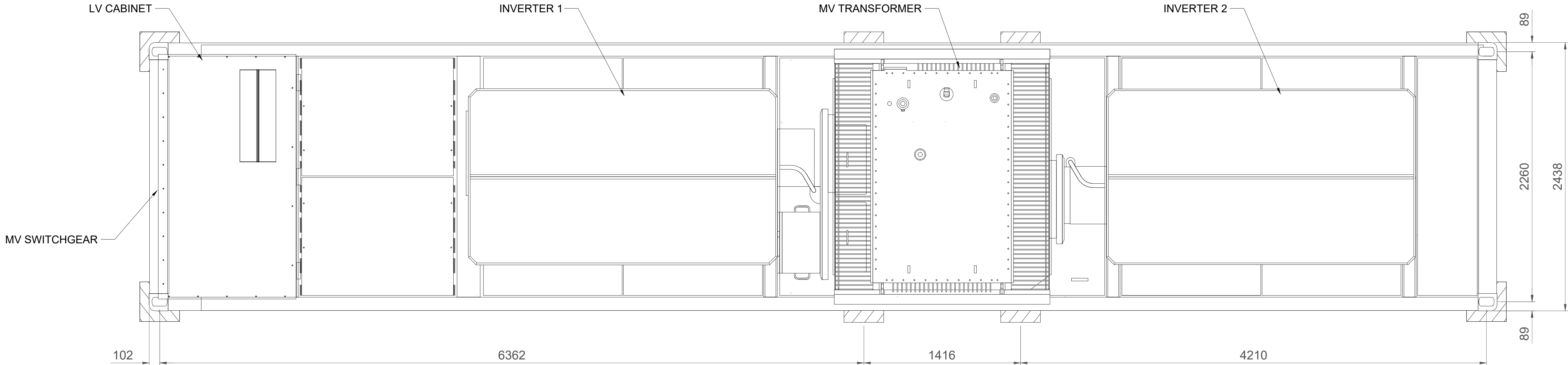
DETAIL A | EQUIPMENT ARRANGEMENT
NTS@A1

DETAIL B | END ELEVATION
1:30@A1

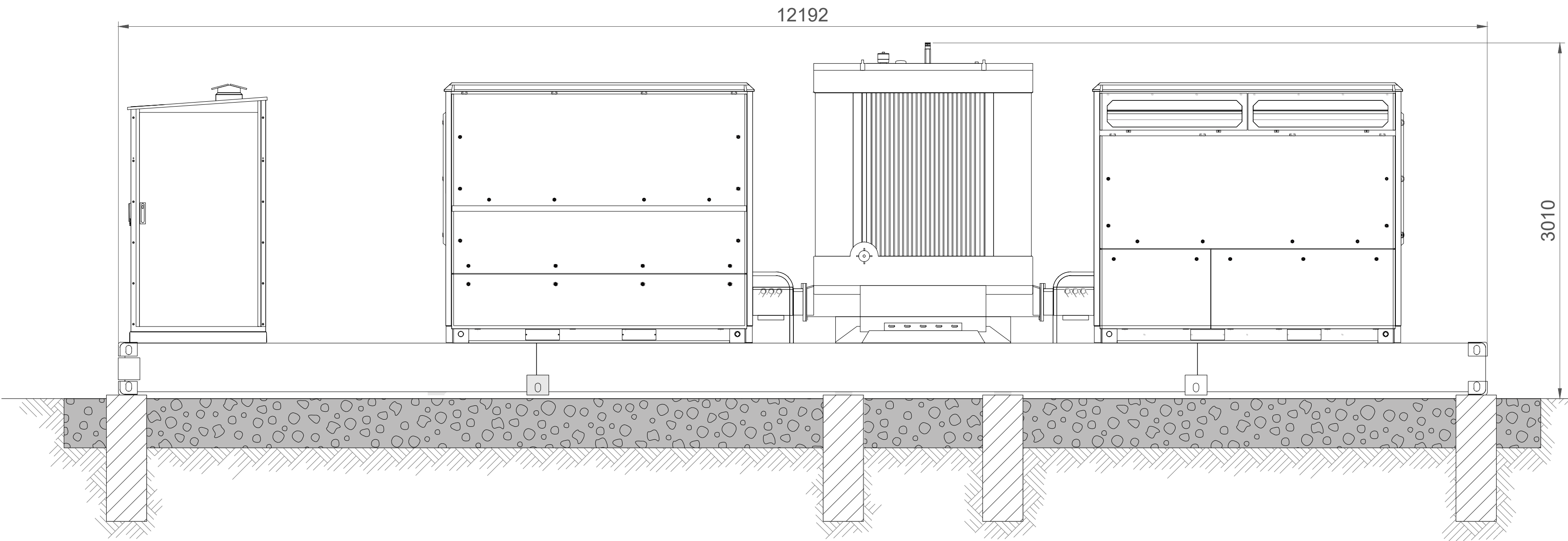
A - INVERTER SUNNY CENTRAL SC2500-EV
B - LV CABINET
C - MV SWITCHGEAR
D - CHANNEL FOR ARC PRESSURE RELEASE
E - MV TRANSFORMER



DETAIL C | TOP VIEW
1:20@A1



DETAIL D | SIDE ELEVATION
1:30@A1



GENERAL NOTES:

- ALL DIMENSIONS ARE IN MILLIMETERS (UNLESS OTHERWISE SPECIFIED) AND ONLY INDICATIVE, TO BE CONFIRMED ON SITE PRIOR TO INSTALLATION.
- FOUNDATION OF THE POWER CONVERSION UNIT SHOULD BE DEFINED DURING THE DETAILED DESIGN PHASE ACCORDING TO THE GEOTECHNICAL STUDIES AND FOOTING METHOD SUPPORTED BY THE PCU SUPPLIER (E.G. STRIP OR PILE FOUNDATION, PEA GRAVEL GROUND, SOLID COMPACTED GROUND AREAS, ETC.)



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POWER CONVERSION
UNIT (PCU) DETAILS

Finley
231 Brookmans Road, Finley NSW
NEW SOUTH WALES, AUSTRALIA

REV	DATE	DESCRIPTION	DWN	CHKD
1	03/03/20	ISSUE FOR INITIAL SUBMITTAL	UZ	JLG
2	11/03/20	ISSUE FOR REVISED INITIAL SUBMITTAL	UZ	JLG
3				

LATITUDE:
35.65 ° S
LONGITUDE:
145.55 ° E

SCALE
AS SHOWN

ORIGINAL SIZE: ISO A1

SHEET

FI-6

A

B

C

D

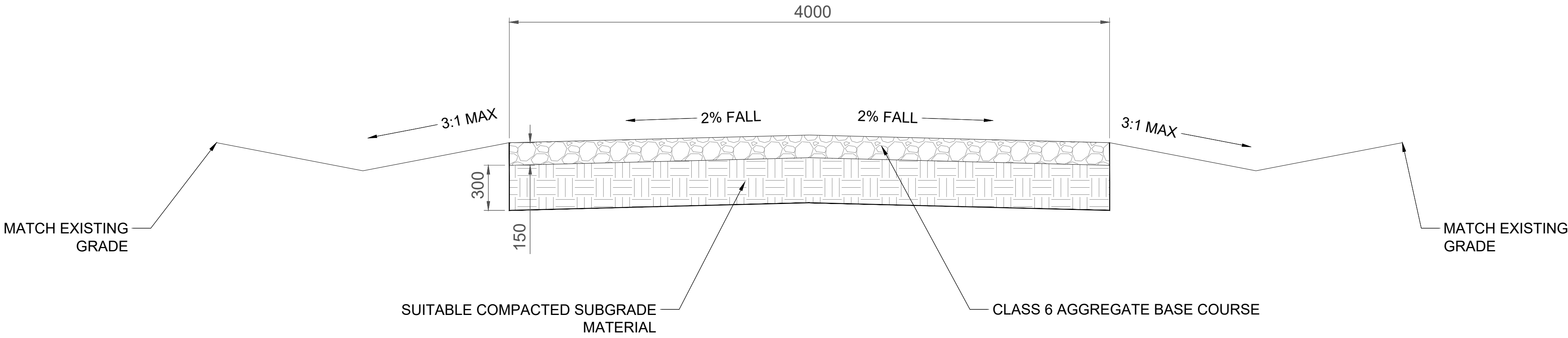
E

F

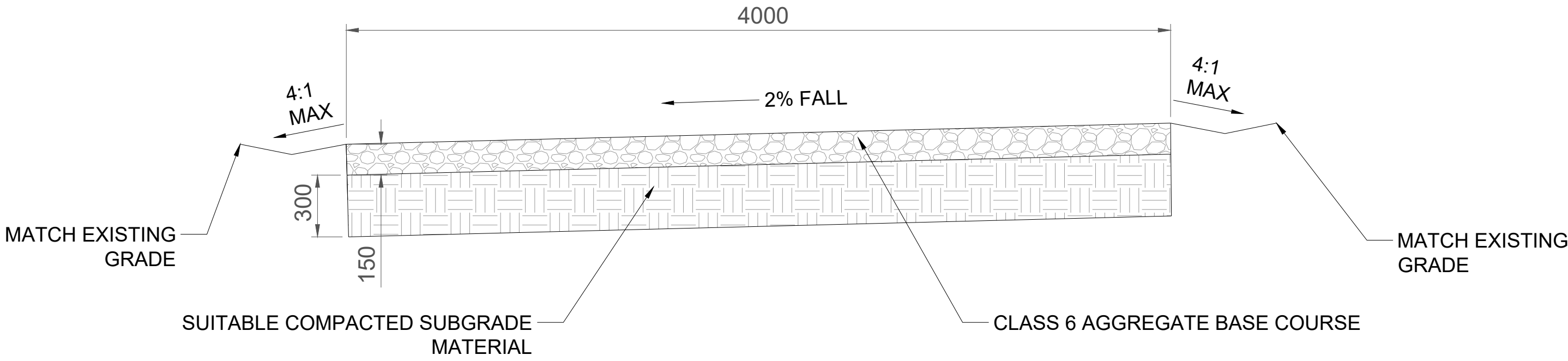
G

H

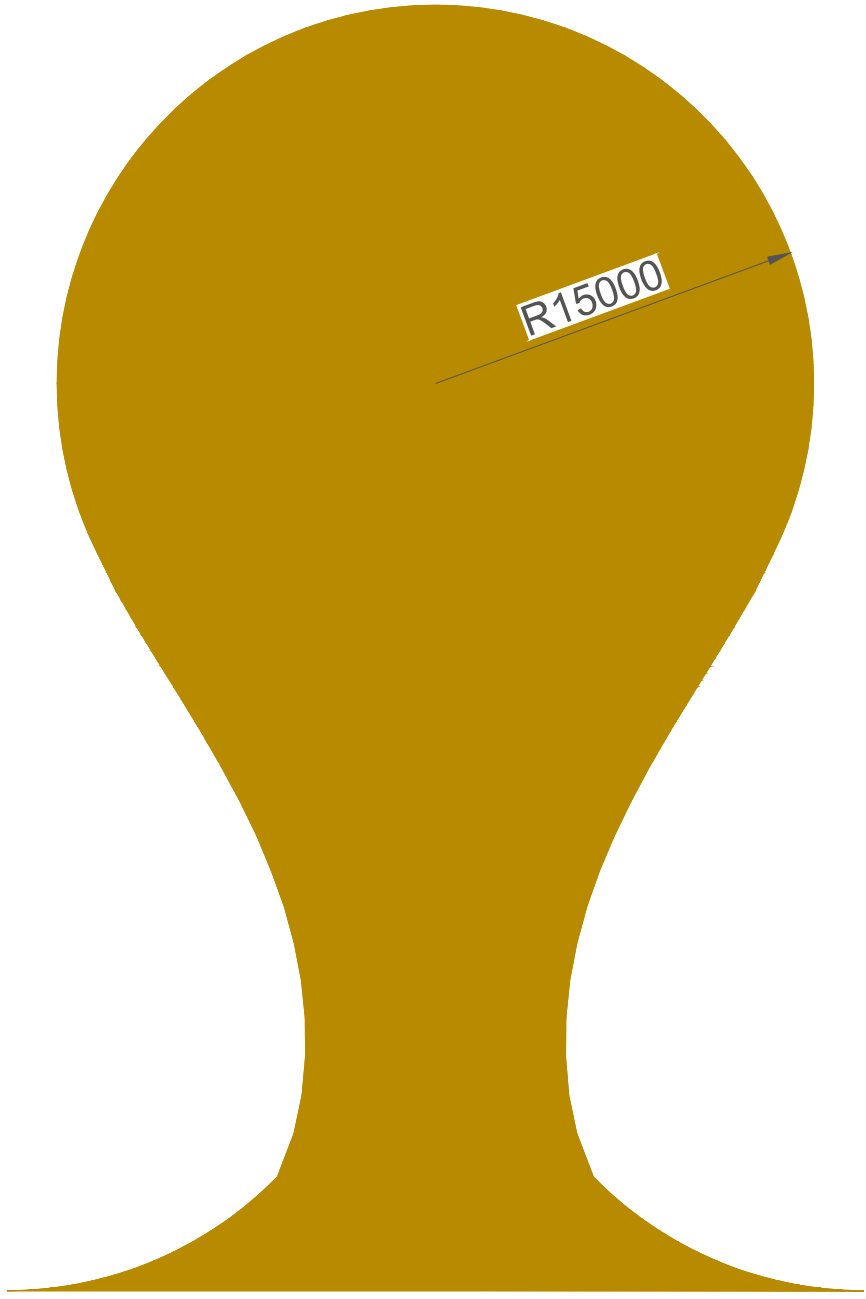
DETAIL A | INDICATIVE INTERNAL ROAD CROSS SECTION (TWO FALLS)
1:20@A1



DETAIL B | INDICATIVE INTERNAL ROAD CROSS SECTION (ONE FALL)
1:20@A1



DETAIL C | VEHICILE TURNING DETAIL PLAN
M 1:300@A1



GENERAL NOTES:

- ALL DIMENSIONS ARE IN MILLIMETERS (UNLESS OTHERWISE SPECIFIED) AND ONLY INDICATIVE, TO BE CONFIRMED ON SITE PRIOR TO INSTALLATION.
- THESE ARE ONLY INDICATIVE CROSS-SECTION OF THE ROAD TO BE REVIEWED DURING THE DETAILED DESIGN PHASE BASED ON GEOTECHNICAL AND DRAINAGE STUDIES.
- NUMBER OF FALLS FOR EACH ROAD TO BE CONFIRMED DURING THE DETAILED DESIGN PHASE BASED ON GEOTECHNICAL AND DRAINAGE STUDIES
- FALL OF 2% IS TYPICAL BUT TO BE CONFIRMED IN DETAILED DESIGN PHASE



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ACCESS ROADS
AND DRIVEWAYS

Finley
231 Brookmans Road, Finley NSW
NEW SOUTH WALES, AUSTRALIA

REV	DATE	DESCRIPTION	DWN	CHKD
1	03/03/20	ISSUE FOR INITIAL SUBMITTAL	UZ	JLG
2	11/03/20	ISSUE FOR REVISED INITIAL SUBMITTAL	UZ	JLG
3				

LATITUDE:

35.65 ° S

LONGITUDE:

145.55 ° E

SCALE

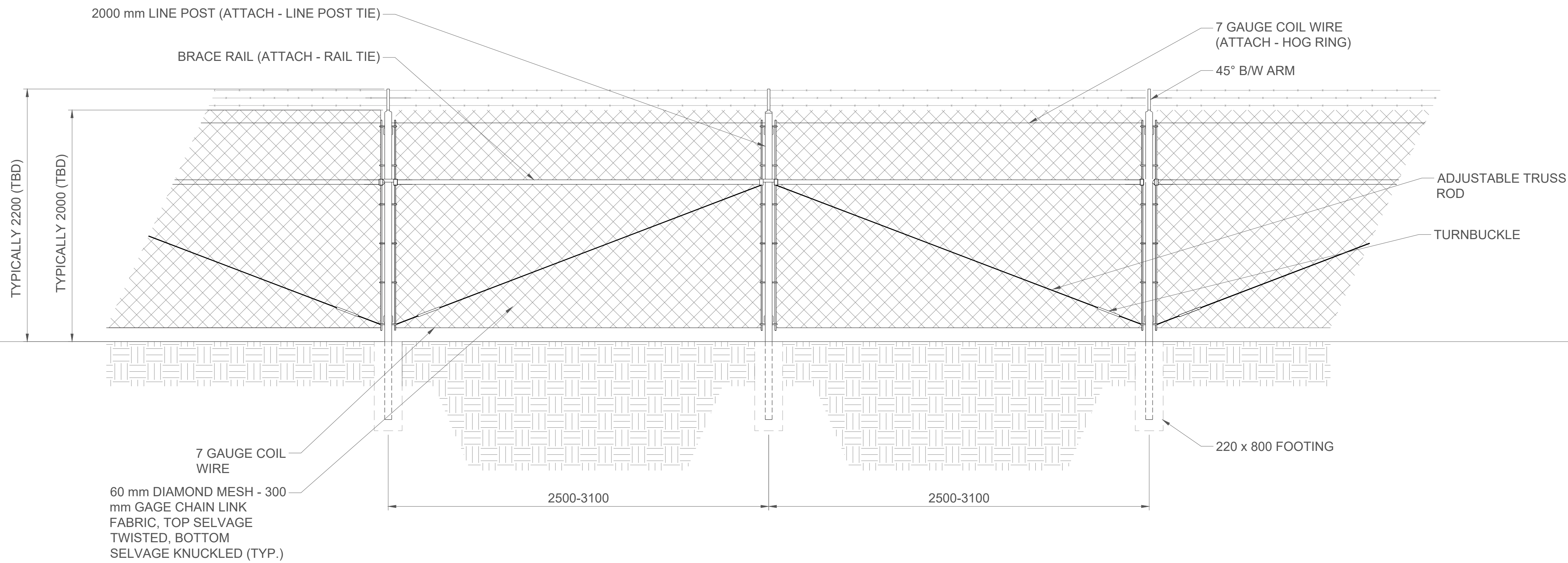
AS SHOWN

ORIGINAL SIZE: ISO A1

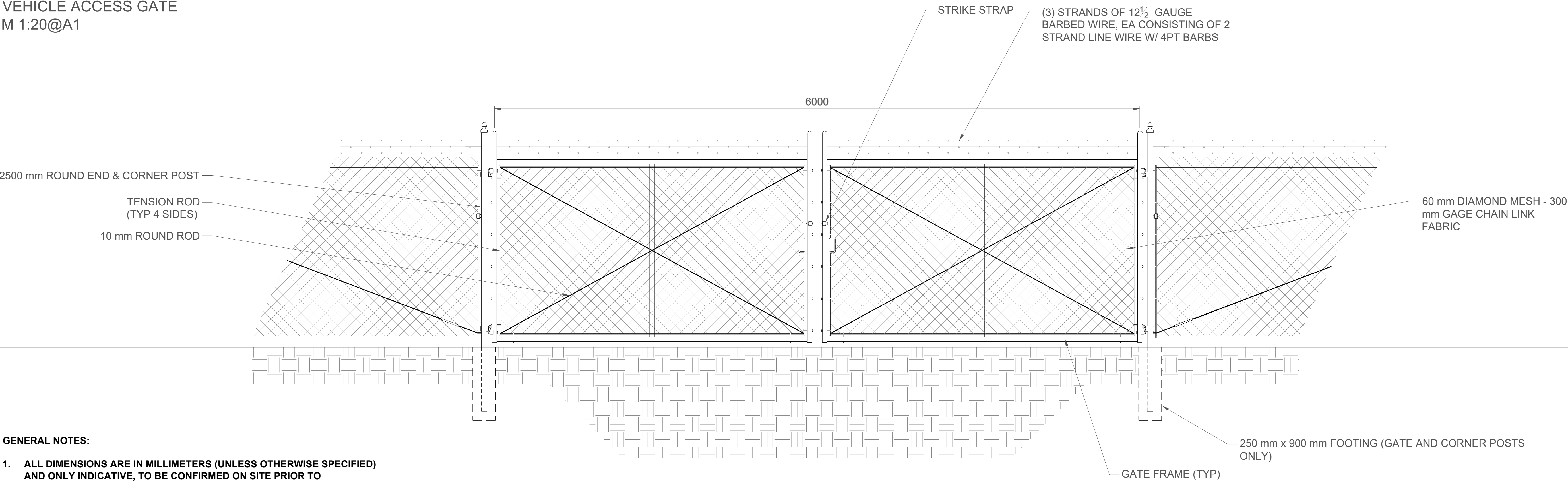
SHEET

FI-7

DETAIL A | INDICATIVE FRONT VIEW OF THE PERIMETER FENCE
1:20@A1



DETAIL B | INDICATIVE FRONT VIEW OF THE VEHICLE ACCESS GATE
M 1:20@A1



GENERAL NOTES:

- ALL DIMENSIONS ARE IN MILLIMETERS (UNLESS OTHERWISE SPECIFIED) AND ONLY INDICATIVE, TO BE CONFIRMED ON SITE PRIOR TO INSTALLATION.
- FENCE TYPE AND DIMENSIONS SHOULD BE DEFINED DURING THE DETAILED DESIGN PHASE BASED ON CLIENT REQUIREMENTS AND SITE CONSTRAINTS.
- ACCESS GATE TYPE AND DIMENSIONS SHOULD BE DEFINED DURING THE DETAILED DESIGN PHASE BASED ON CLIENT REQUIREMENTS AND SITE CONSTRAINTS. PEDESTRIAN GATES MAY BE REQUIRED (TBD)



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CONSTRUCTION

SECURITY
FENCING DETAILS

Finley
231 Brookmans Road, Finley NSW
NEW SOUTH WALES, AUSTRALIA

REV	DATE	DESCRIPTION	DWN	CHKD			
					JLG	JLG	JLG
1	03/03/20	ISSUE FOR INITIAL SUBMITTAL	UZ				
2	11/03/20	ISSUE FOR REVISED INITIAL SUBMITTAL	UZ				
3							

LATITUDE:
35.65 ° S
LONGITUDE:
145.55 ° E

SCALE
AS SHOWN

ORIGINAL SIZE: ISO A1

SHEET
FI-8