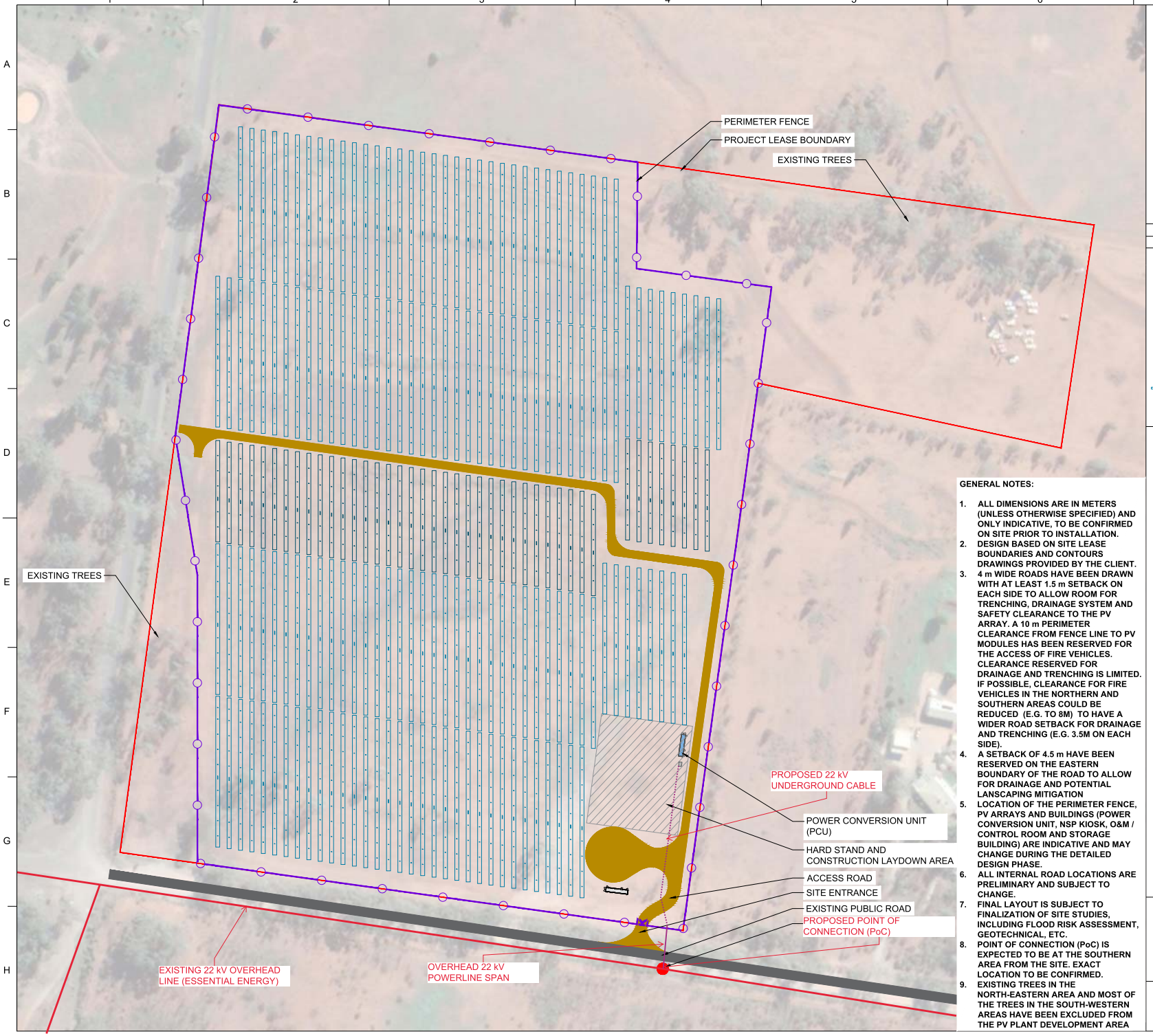

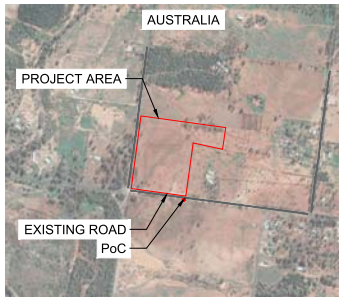

LOCATION MAP - SCALE: 1:1,500,000

LEGEND

- PROJECT LEASE BOUNDARY
- 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 1P78
- PROPOSED PV TRACKER 1P52

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 AT LEAST 1.5 m SETBACK ON EACH SIDE TO ALLOW ROOM FOR TRENCHING, DRAINAGE SYSTEM AND SAFETY CLEARANCE TO THE PV ARRAY. A 10 m PERIMETER CLEARANCE FROM FENCE LINE TO PV MODULES HAS BEEN RESERVED FOR THE ACCESS OF FIRE VEHICLES. CLEARANCE RESERVED FOR DRAINAGE AND TRENCHING IS LIMITED. IF POSSIBLE, CLEARANCE FOR FIRE VEHICLES IN THE NORTHERN AND SOUTHERN AREAS COULD BE REDUCED (E.G. TO 8M) TO HAVE A WIDER ROAD SETBACK FOR DRAINAGE AND TRENCHING (E.G. 3.5M ON EACH SIDE).
4. A SETBACK OF 4.5 m HAVE BEEN RESERVED ON THE EASTERN BOUNDARY OF THE ROAD TO ALLOW FOR DRAINAGE AND POTENTIAL LANSCAPING MITIGATION
5. LOCATION OF THE PERIMETER FENCE, PV ARRAYS AND BUILDINGS (POWER CONVERSION UNIT, NSP KIOSK, O&M / CONTROL ROOM AND STORAGE BUILDING) ARE INDICATIVE AND MAY CHANGE DURING THE DETAILED DESIGN PHASE.
6. ALL INTERNAL ROAD LOCATIONS ARE PRELIMINARY AND SUBJECT TO CHANGE.
7. FINAL LAYOUT IS SUBJECT TO FINALIZATION OF SITE STUDIES, INCLUDING FLOOD RISK ASSESSMENT, GEOTECHNICAL, ETC.
8. POINT OF CONNECTION (PoC) IS EXPECTED TO BE AT THE SOUTHERN AREA FROM THE SITE. EXACT LOCATION TO BE CONFIRMED.
9. EXISTING TREES IN THE NORTH-EASTERN AREA AND MOST OF THE TREES IN THE SOUTH-WESTERN AREAS HAVE BEEN EXCLUDED FROM THE PV PLANT DEVELOPMENT AREA

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 OR 2 STRINGS PER ROW
RANGE OF MOTION:	E-W +/-60°
PITCH:	6.2 M
GCR:	35.1%
QUANTITY:	1P78 - 154 1P52 - 42

LEASE AREA:	~14.73 HA
FENCED AREA:	~11.74 HA

N

1:1000 0 20 50 100

SCALE IN METERS

PROVIDENCE ASSET GROUP

RINA CONSULTING
WWW.RINAGROUP.ORG
WWW.RINACONSULTING.ORG

PRELIMINARY NOT FOR CONSTRUCTION

SOLAR FARM GENERAL ARRANGEMENT

Gunnedah
262 Hunts Road, Gunnedah 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: 31.01 ° S
LONGITUDE: 150.205 ° E

SCALE 1:1000

ORIGINAL SIZE: ISO A1

SHEET GU-2