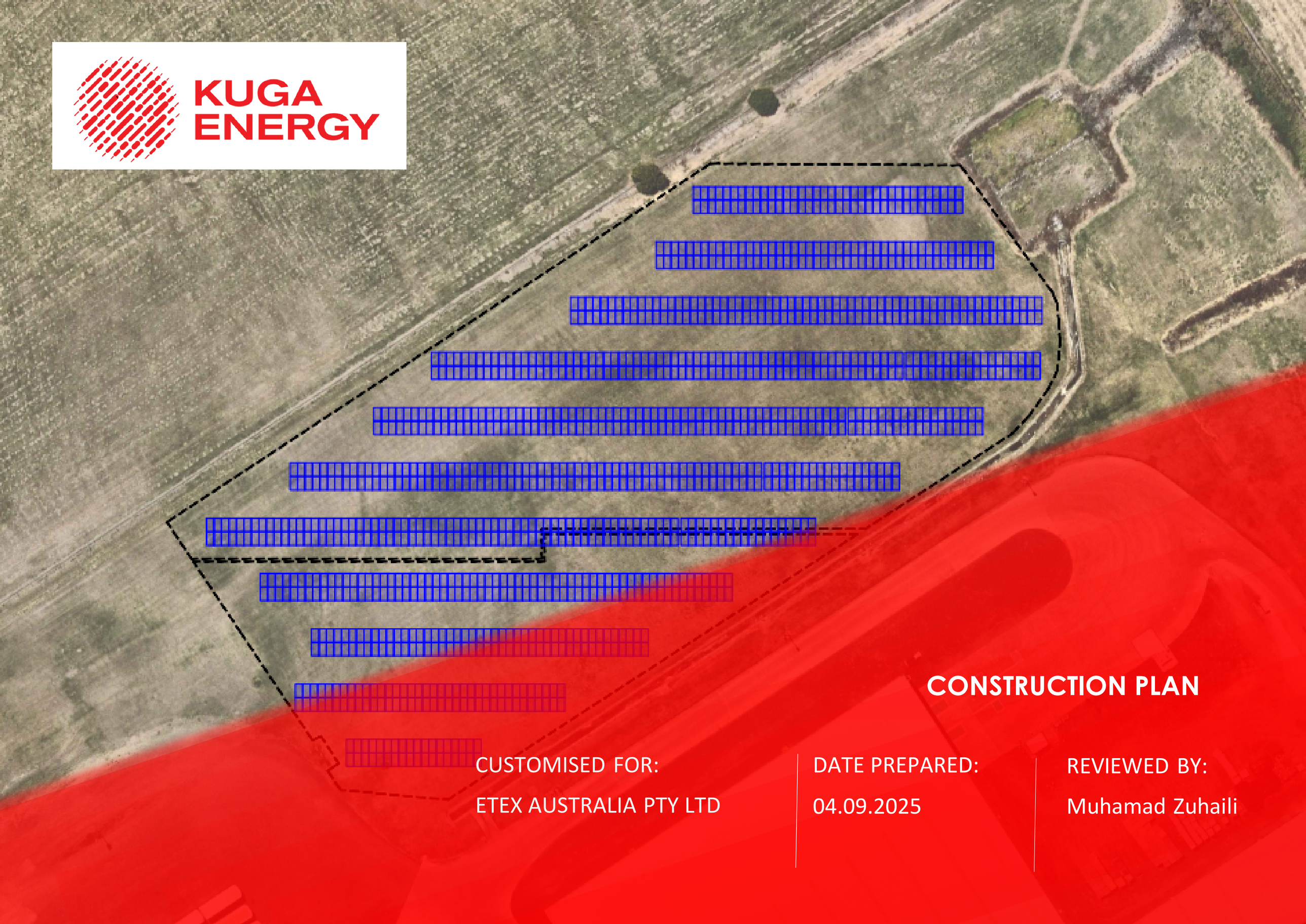

KUGA ENERGY

CONSTRUCTION PLAN

CUSTOMISED FOR:

ETEX AUSTRALIA PTY LTD

DATE PREPARED:

04.09.2025

REVIEWED BY:

Muhamad Zuhaili

PROJECT INFORMATION

PROJECT NAME:	ETEX AUSTRALIA PTY LTD
ADDRESS:	96 Bus St. Burnett Heads, QLD 4670, Australia
DC POWER (kW):	900.90 kWp
AC POWER (kW):	700 kVA
JOB NUMBER	J3087

SYSTEM INFORMATION

	BRAND / MODEL	QTY	TOTAL KW
PANEL	Trina Solar, TSM-NEG21C.20 715 (715W)	1260 PCS	900.90 kWp
INVERTER	Tauro Eco 100-3-P (Fronius)	7	700 kVA

KUGA CONTACT DETAILS

NAME	COMPANY	POSITION	CONTACT NUMBER	EMAIL ADDRESS
JOHN KURTA	KUGA ENERGY	MANAGING DIRECTOR	0433239898	j.kurta@kuga.energy
CLEMENT DOUDET	KUGA ENERGY	GENERAL MANAGER	0410569860	c.doudet@kuga.energy
ADAM MOHSIN	KUGA ENERGY	HEAD OF ENGINEERING	0414685929	a.mohsin@kuga.energy
MUHAMAD ZUHAILI ANUAR	KUGA ENERGY	PROJECT ENGINEER	0452367829	m.anuar@kuga.energy
JUSTIN LUMSDEN	KUGA ENERGY	PROJECT MANAGER	0432790399	j.lumsden@kuga.energy

SITE CONTACT DETAILS

NAME	COMPANY	POSITION	CONTACT NUMBER	EMAIL ADDRESS
WILLIAM KEAST	ETEX AUSTRALIA PTY LTD	TECHNICAL MANAGER	0491051223	william.keast@etexgroup.com

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CLIENT NAME: ETEX AUSTRALIA PTY LTD

PROJECT NUMBER: J3087

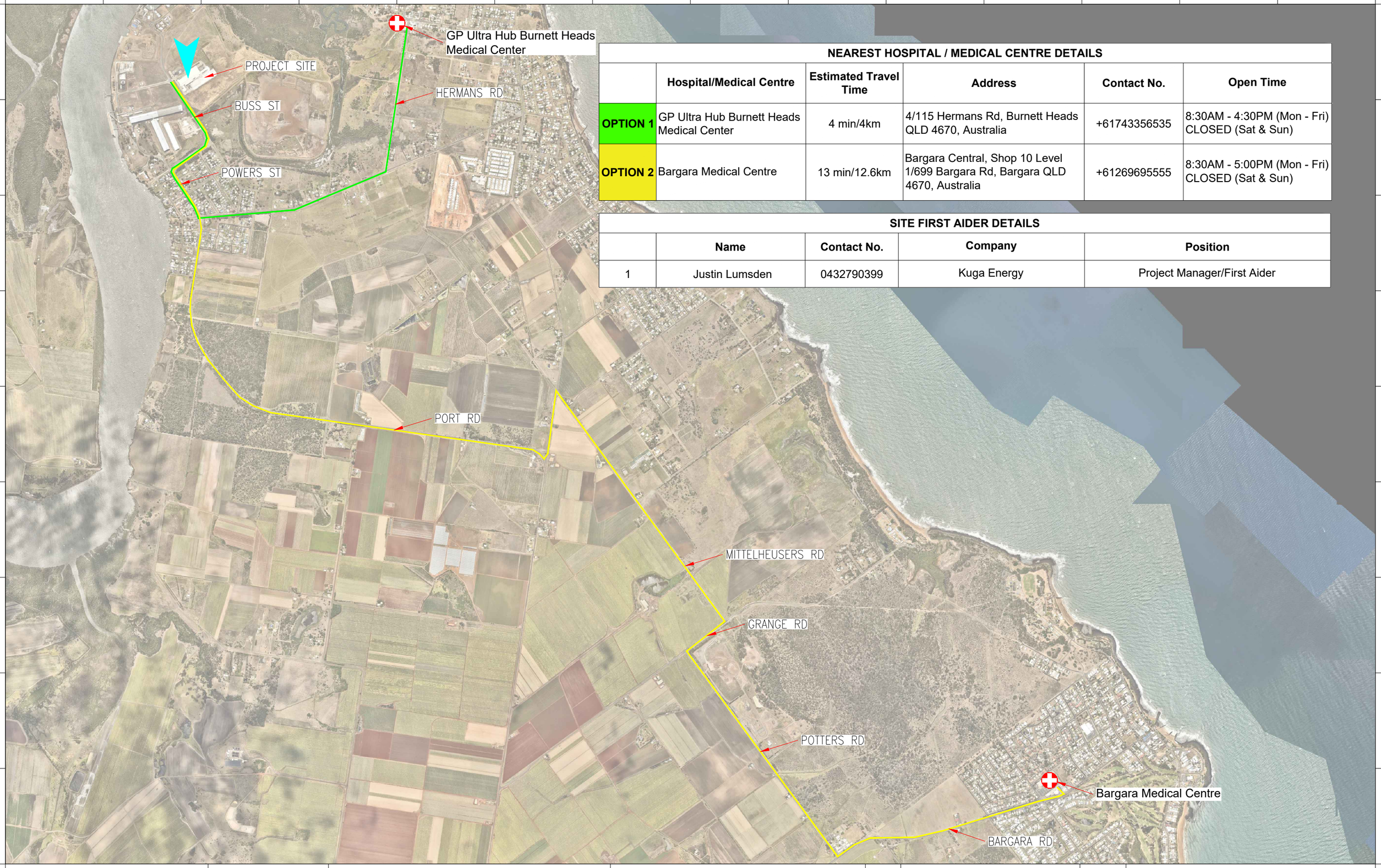
SITE ADDRESS: 96 Buss st. Burnett Heads QLD 4670

SITE INDUCTION

DWG NO: J3087 - 001

VER.	DESCRIPTION	DATE
1	ISSUED FOR CONSTRUCTION	04/09/2025

CONSTRUCTION PLAN



NEAREST HOSPITAL / MEDICAL CENTRE DETAILS

	Hospital/Medical Centre	Estimated Travel Time	Address	Contact No.	Open Time
OPTION 1	GP Ultra Hub Burnett Heads Medical Center	4 min/4km	4/115 Hermans Rd, Burnett Heads QLD 4670, Australia	+61743356535	8:30AM - 4:30PM (Mon - Fri) CLOSED (Sat & Sun)
OPTION 2	Bargara Medical Centre	13 min/12.6km	Bargara Central, Shop 10 Level 1/699 Bargara Rd, Bargara QLD 4670, Australia	+61269695555	8:30AM - 5:00PM (Mon - Fri) CLOSED (Sat & Sun)

SITE FIRST AIDER DETAILS

	Name	Contact No.	Company	Position
1	Justin Lumsden	0432790399	Kuga Energy	Project Manager/First Aider

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CLIENT NAME: ETEX AUSTRALIA PTY LTD

PROJECT NUMBER: J3087

SITE ADDRESS: 96 Buss st. Burnett Heads QLD 4670

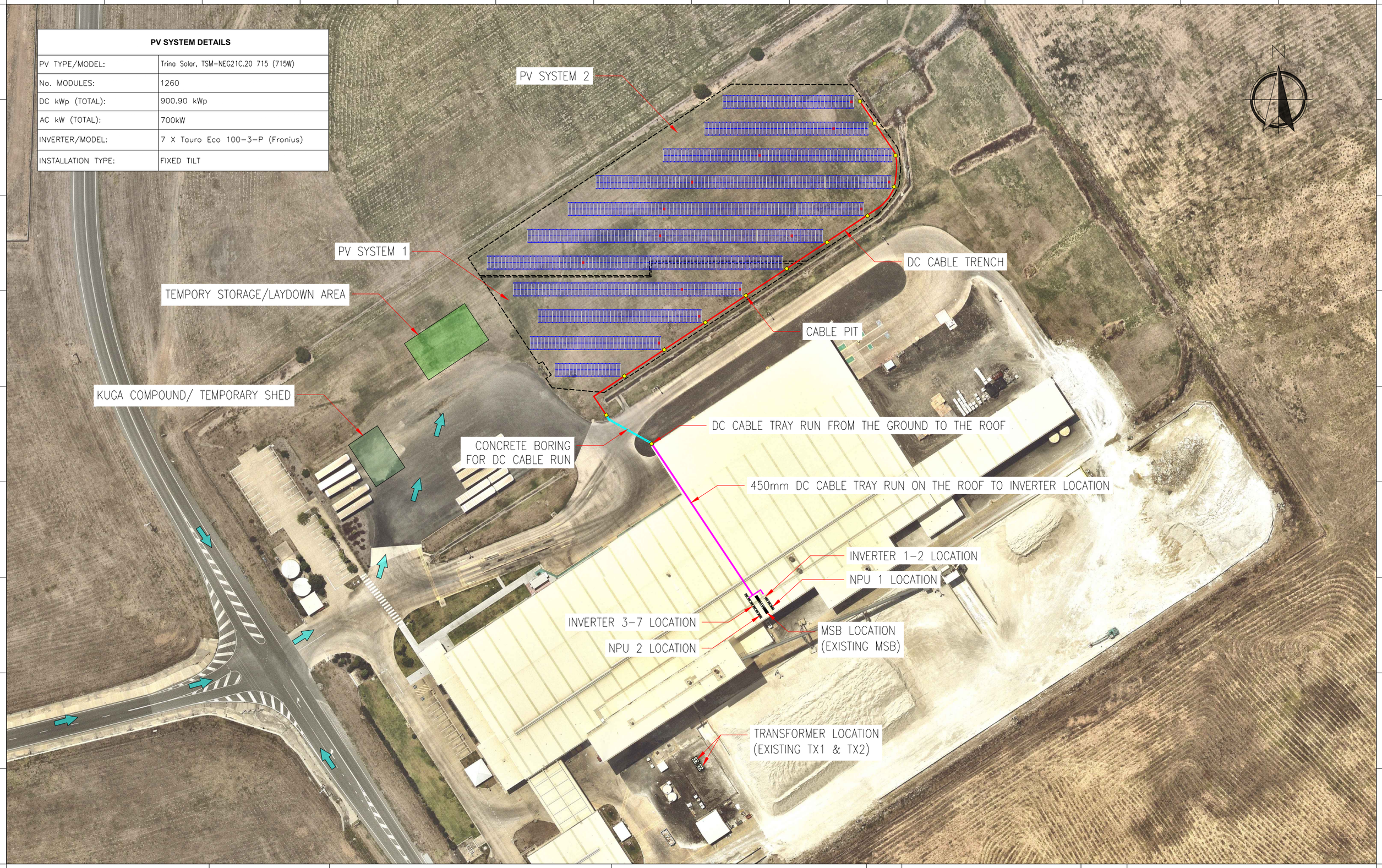
EMERGENCY DETAILS

DWG NO: J3087 - 002

VER.	DESCRIPTION	DATE
1	ISSUED FOR CONSTRUCTION	04/09/2025

CONSTRUCTION PLAN

PV SYSTEM DETAILS	
PV TYPE/MODEL:	Trina Solar, TSM-NEG21C.20 715 (715W)
No. MODULES:	1260
DC kWp (TOTAL):	900.90 kWp
AC kW (TOTAL):	700kW
INVERTER/MODEL:	7 X Tauro Eco 100-3-P (Fronius)
INSTALLATION TYPE:	FIXED TILT



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CLIENT NAME: ETEX AUSTRALIA PTY LTD

PROJECT NUMBER: J3087

SITE ADDRESS: 96 Buss st. Burnett Heads QLD 4670

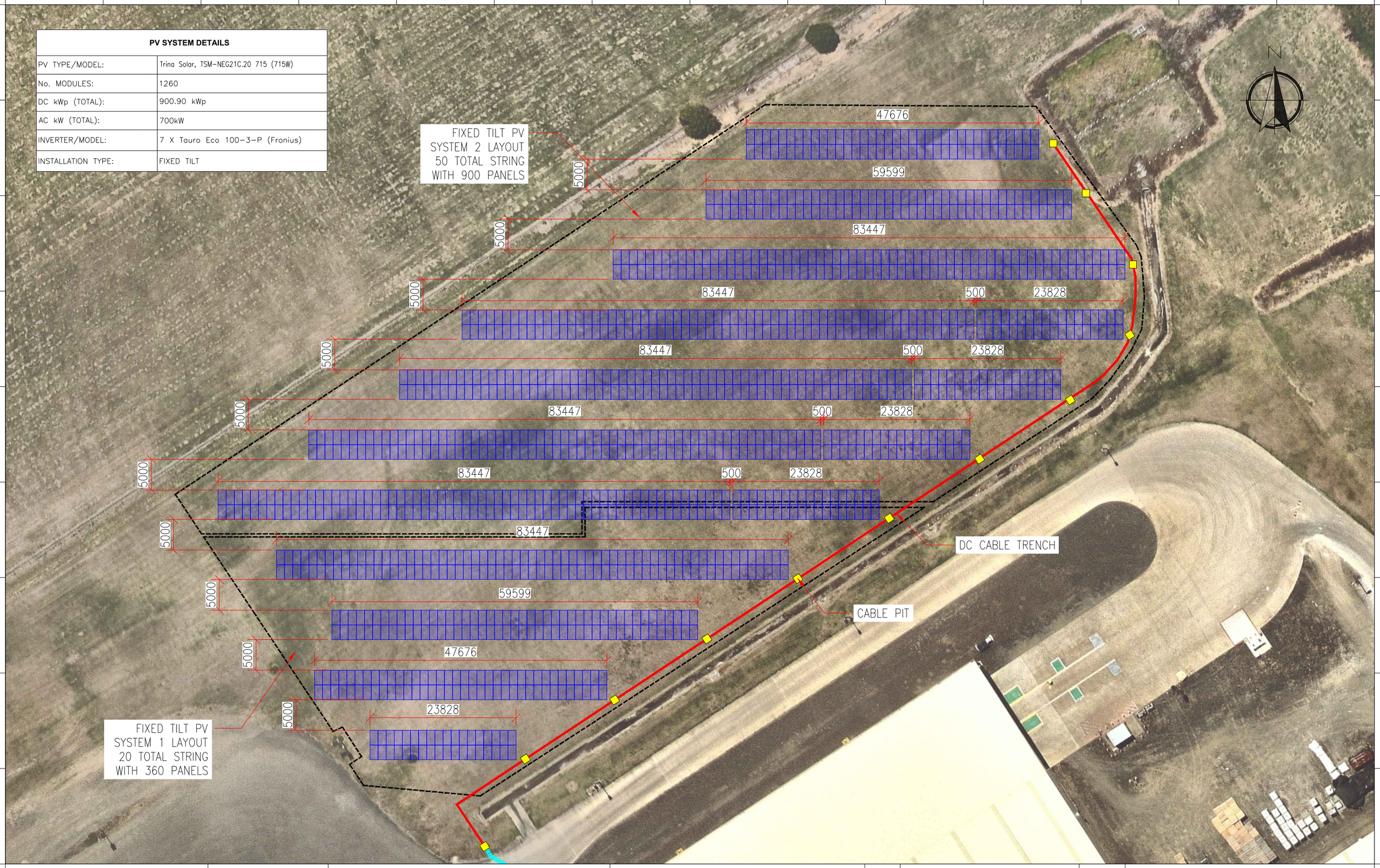
SITE ACCESS PLAN

DWG NO: J3087 - 003

VER.	DESCRIPTION	DATE
1	ISSUED FOR CONSTRUCTION	04/09/2025

CONSTRUCTION PLAN

PV SYSTEM DETAILS	
PV TYPE/MODEL:	Trina Solar, TSM-NEG21C.20 715 (715W)
No. MODULES:	1260
DC kWp (TOTAL):	900.90 kWp
AC kW (TOTAL):	700kW
INVERTER/MODEL:	7 X Tauro Eco 100-3-P (Fronius)
INSTALLATION TYPE:	FIXED TILT



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CLIENT NAME: ETEX AUSTRALIA PTY LTD

PROJECT NUMBER: J3087

SITE ADDRESS: 96 Buss st. Burnett Heads QLD 4670

PV Layout

DWG NO: J3087 - 004

VER.	DESCRIPTION	DATE
1	ISSUED FOR CONSTRUCTION	04/09/2025

CONSTRUCTION PLAN

PV SYSTEM DETAILS	
PV TYPE/MODEL:	Trina Solar, TSM-NEG21C.20 715 (715W)
No. MODULES:	1260
DC kWp (TOTAL):	900.90 kWp
AC kW (TOTAL):	700kW
INVERTER/MODEL:	7 X Tauro Eco 100-3-P (Fronius)
INSTALLATION TYPE:	FIXED TILT

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CLIENT NAME: ETEX AUSTRALIA PTY LTD

PROJECT NUMBER: J3087

SITE ADDRESS: 96 Buss st. Burnett Heads QLD 4670

STRING WIRING PV SYSTEM

DWG NO: J3087 - 005

VER.	DESCRIPTION	DATE
1	ISSUED FOR CONSTRUCTION	04/09/2025

CONSTRUCTION PLAN

						String to Iso							Iso to Inverter							
Inverter Count	Number of panels per inverter	PV Inverter Input	Combiner Box	String Number	Number of panels p/string	Cable Size	Resistance	Voltage	Current	Distance	Vd	Vd%	Cable Size	Resistance	Voltage	Current	Distance	Vd	Vd%	TOTAL VD%
INV 1	180	PV1	CB1	1.1	18	6 mm	3.75	739.8	18.44	65	8.99	1.22%								
				1.2	18	6 mm	3.75	739.8	18.44	65	8.99	1.22%								
				1.3	18	6 mm	3.75	739.8	18.44	25	3.46	0.47%								
				1.4	18	6 mm	3.75	739.8	18.44	73	10.10	1.36%								
				1.5	18	6 mm	3.75	739.8	18.44	73	10.10	1.36%	95 mm	0.236	739.8	92.2	130	5.66	0.76%	2.13%
		PV2	CB2	1.6	18	6 mm	3.75	739.8	18.44	65	8.99	1.22%								
				1.7	18	6 mm	3.75	739.8	18.44	25	3.46	0.47%								
				1.8	18	6 mm	3.75	739.8	18.44	73	10.10	1.36%								
				1.9	18	6 mm	3.75	739.8	18.44	98	13.55	1.83%								
				1.10	18	6 mm	3.75	739.8	18.44	73	10.10	1.36%	95 mm	0.236	739.8	92.2	147	6.40	0.86%	2.23%
INV 2	180	PV1	CB1	2.1	18	6 mm	3.75	739.8	18.44	116	16.04	2.17%								
				2.2	18	6 mm	3.75	739.8	18.44	25	3.46	0.47%								
				2.3	18	6 mm	3.75	739.8	18.44	31	4.29	0.58%								
				2.4	18	6 mm	3.75	739.8	18.44	79	10.93	1.48%								
				2.5	18	6 mm	3.75	739.8	18.44	104	14.38	1.94%	120 mm	0.188	739.8	92.2	187	6.48	0.88%	2.82%
		PV2	CB2	2.6	18	6 mm	3.75	739.8	18.44	119	16.46	2.22%								
				2.7	18	6 mm	3.75	739.8	18.44	25	3.46	0.47%								
				2.8	18	6 mm	3.75	739.8	18.44	119	16.46	2.22%								
				2.9	18	6 mm	3.75	739.8	18.44	81	11.20	1.51%								
				2.10	18	6 mm	3.75	739.8	18.44	107	14.80	2.00%	120 mm	0.188	739.8	92.2	166	5.75	0.78%	3.00%
INV 3	180	PV1	CB1	3.1	18	6 mm	3.75	739.8	18.44	28	3.87	0.52%								
				3.2	18	6 mm	3.75	739.8	18.44	25	3.46	0.47%								
				3.3	18	6 mm	3.75	739.8	18.44	51	7.05	0.95%								
				3.4	18	6 mm	3.75	739.8	18.44	25	3.46	0.47%								
				3.5	18	6 mm	3.75	739.8	18.44	28	3.87	0.52%	95 mm	0.236	739.8	92.2	254	11.05	1.49%	2.45%
		PV2	CB2	3.6	18	6 mm	3.75	739.8	18.44	110	15.21	2.06%								
				3.7	18	6 mm	3.75	739.8	18.44	61	8.44	1.14%								
				3.8	18	6 mm	3.75	739.8	18.44	25	3.46	0.47%								
				3.9	18	6 mm	3.75	739.8	18.44	72	9.96	1.35%								
				3.10	18	6 mm	3.75	739.8	18.44	97	13.42	1.81%	95 mm	0.236	739.8	92.2	199	8.66	1.17%	2.98%
Inv 4	180	PV1	CB1	4.1	18	6 mm	3.75	739.8	18.44	51	7.05	0.95%								
				4.2	18	6 mm	3.75	739.8	18.44	77	10.65	1.44%								
				4.3	18	6 mm	3.75	739.8	18.44	51	7.05	0.95%								
				4.4	18	6 mm	3.75	739.8	18.44	25	3.46	0.47%								
				4.5	18	6 mm	3.75	739.8	18.44	48	6.64	0.90%	95 mm	0.236	739.8	92.2	260	11.31	1.53%	2.97%
		PV2	CB2	4.6	18	6 mm	3.75	739.8	18.44	72	9.96	1.35%								
				4.7	18	6 mm	3.75	739.8	18.44	25	3.46	0.47%								
				4.8	18	6 mm	3.75	739.8	18.44	74	10.23	1.38%								
				4.9	18	6 mm	3.75	739.8	18.44	25	3.46	0.47%								
				4.10	18	6 mm	3.75	739.8	18.44	74	10.23	1.38%	95 mm	0.236	739.8	92.2	217	9.44	1.28%	2.66%
Inv 5	180	PV1	CB1	5.1	18	6 mm	3.75	739.8	18.44	28	3.87	0.52%								
				5.2	18	6 mm	3.75	739.8	18.44	25	3.46	0.47%								
				5.3	18	6 mm	3.75	739.8	18.44	51	7.05	0.95%								
				5.4	18	6 mm	3.75	739.8	18.44	25	3.46	0.47%								
				5.5	18	6 mm	3.75	739.8	18.44	28	3.87	0.52%	95 mm	0.236	739.8	92.2	291	12.66	1.71%	2.67%
		PV1	CB2	5.6	18	6 mm	3.75	739.8	18.44	28	3.87	0.52%								
				5.7	18	6 mm	3.75	739.8	18.44	25	3.46	0.47%								
				5.8	18	6 mm	3.75	739.8	18.44	51	7.05	0.95%								
				5.9	18	6 mm	3.75	739.8	18.44	25	3.46	0.47%								
				5.10	18	6 mm	3.75	739.8	18.44	28	3.87	0.52%	95 mm	0.236	739.8	92.2	304	13.23	1.79%	2.74%
Inv 6	180	PV1	CB1	6.1	18	6 mm	3.75	739.8	18.44	25	3.46	0.47%								
				6.2	18	6 mm	3.75	739.8	18.44	74	10.23	1.38%								
				6.3	18	6 mm	3.75	739.8	18.44	74	10.23	1.38%								
				6.4	18	6 mm	3.75	739.8	18.44	25	3.46	0.47%								
				6.5	18	6 mm	3.75	739.8	18.44	49	6.78	0.92%	95 mm	0.236	739.8	92.2	233	10.14	1.37%	2.75%
		PV1	CB2	6.6	18	6 mm	3.75	739.8	18.44	28	3.87	0.52%								
				6.7	18	6 mm	3.75	739.8	18.44	25	3.46	0.47%								
				6.8	18	6 mm	3.75	739.8	18.44	51	7.05	0.95%								
				6.9	18	6 mm	3.75	739.8	18.44	25	3.46	0.47%								
				6.10	18	6 mm	3.75	739.8	18.44	28	3.87	0.52%	95 mm	0.236	739.8	92.2	284	12.36	1.67%	2.62%
Inv 7	180	PV1	CB1	7.1	18	6 mm	3.75	739.8	18.44	74	10.23	1.38%								
				7.2	18	6 mm	3.75	739.8	18.44	25	3.46	0.47%								
				7.3	18	6 mm	3.75	739.8	18.44	49	6.78	0.92%								
				7.4	18	6 mm	3.75	739.8	18.44	74	10.23	1.38%								
				7.5	18	6 mm	3.75	739.8	18.44	49	6.78	0.92%	95 mm	0.236	739.8	92.2	271	11.79	1.59%	2.98%
		PV1	CB2	7.6	18	6 mm	3.75	739.8	18.44	58	8.02	1.08%								
				7.7	18	6 mm	3.75	739.8	18.44	25	3.46	0.47%								
				7.8	18	6 mm	3.75	739.8	18.44	73	10.10	1.36%								
				7.9	18	6 mm	3.75	739.8	18.44	73	10.10	1.36%								
				7.10	18	6 mm	3.75	739.8	18.44	25	3.46	0.47%	95 mm	0.236	739.8	92.2	268	11.66	1.58%	2.94%

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CLIENT NAME: ETEX AUSTRALIA PTY LTD

PROJECT NUMBER: J3087

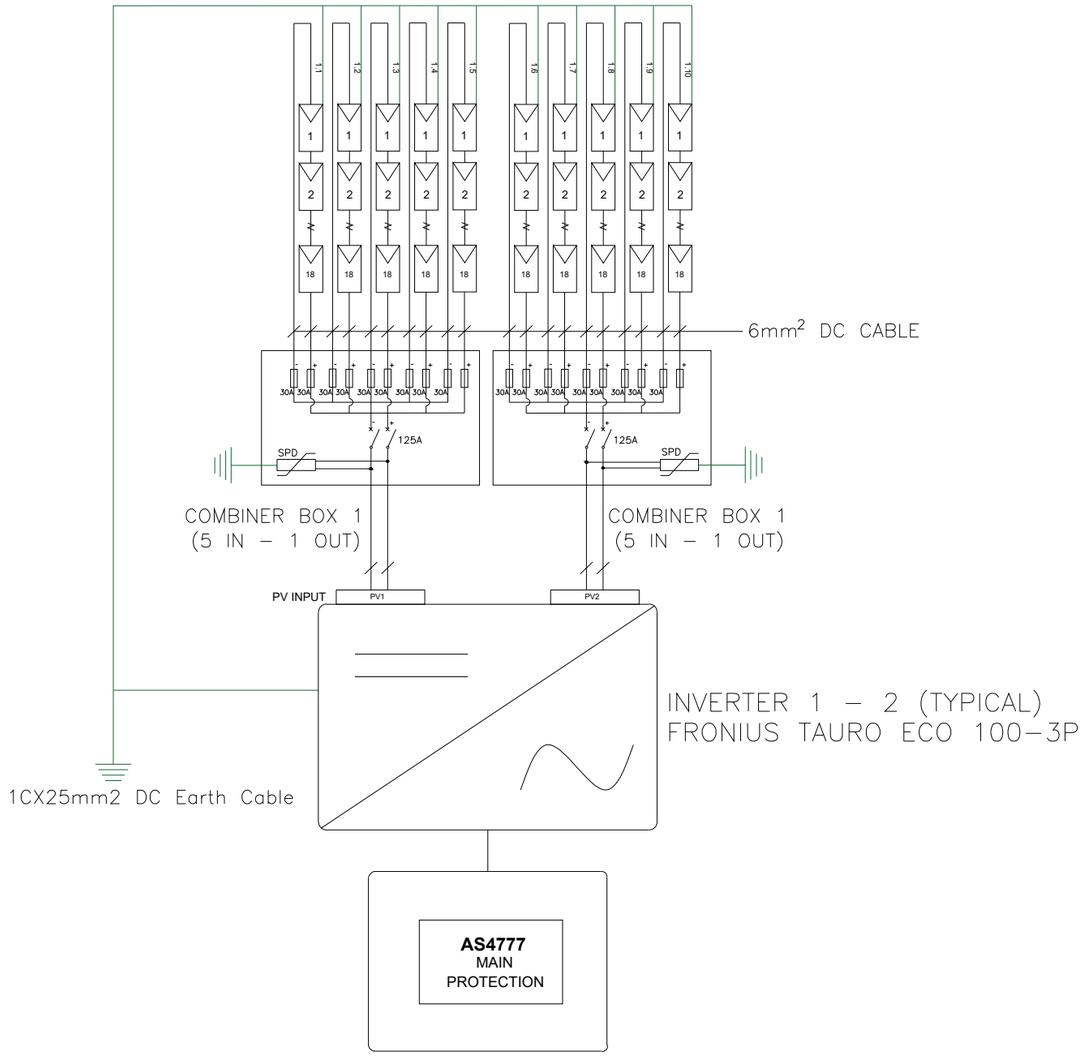
SITE ADDRESS: 96 Buss st. Burnett Heads QLD 4670

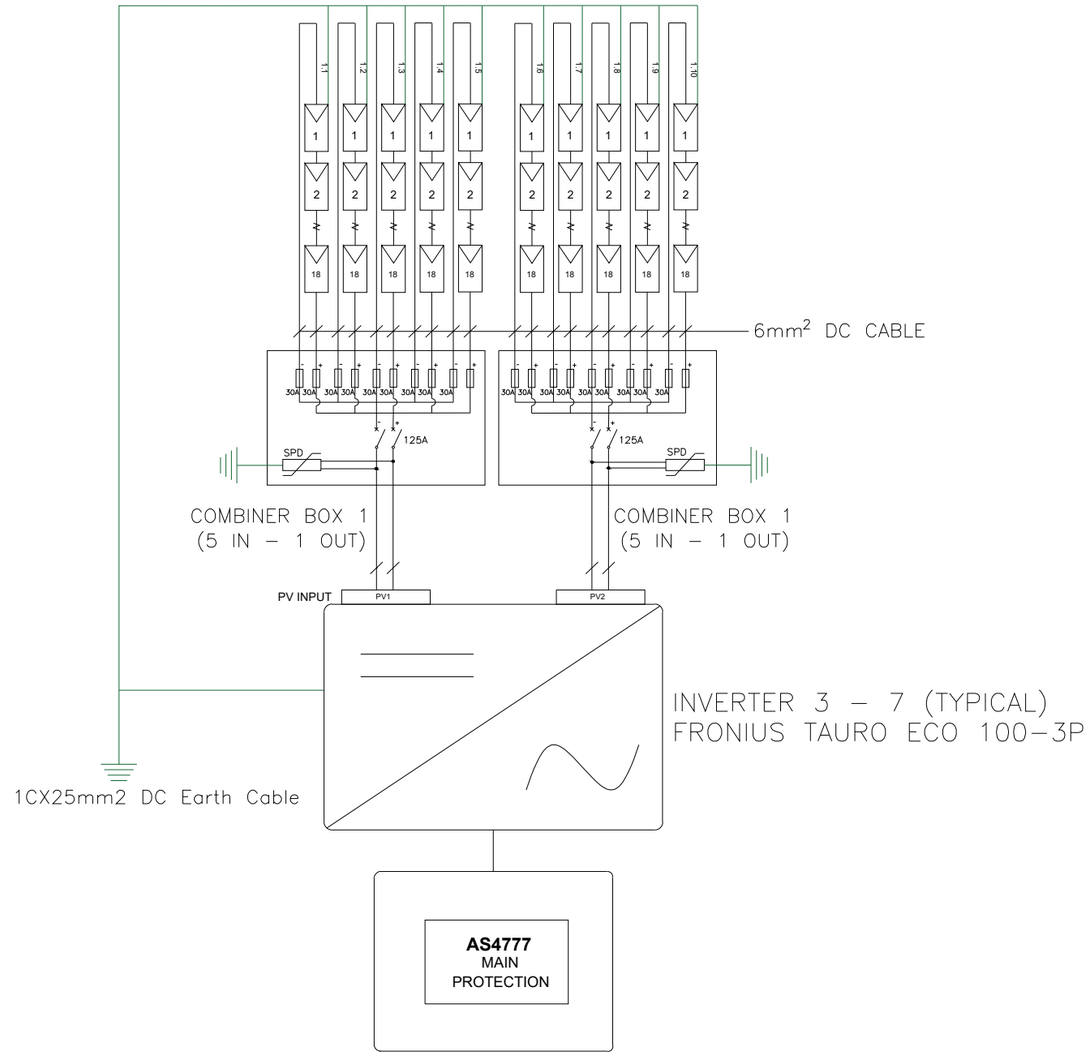
STRING WIRING PV SYSTEM

DWG NO: J3087 - 006

VER.	DESCRIPTION	DATE
1	ISSUED FOR CONSTRUCTION	04/09/2025

CONSTRUCTION PLAN





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CLIENT NAME: ETEX AUSTRALIA PTY LTD

PROJECT NUMBER: J3087

SITE ADDRESS: 96 Buss st. Burnett Heads QLD 4670

DC WIRING SCHEMATIC

DWG NO: J3087 - 007

VER.	DESCRIPTION	DATE
1	ISSUED FOR CONSTRUCTION	04/09/2025

CONSTRUCTION PLAN

INVERTER PROTECTION SETTINGS SCHEDULE

PROTECTION FUNCTION	PROTECTIVE FUNCTION LIMIT	TRIP TIME DELAY	MAX DISCONNECTION TIME
Over Voltage 2 (V>>)	*275V*	*-*	*0.20S*
Over Voltage 1 (V>)	*265V*	*1 sec*	*2S*
Under Voltage 2 (V<<)	*70V*	*1 sec*	*2S*
Under Voltage 1 (V<)	*180V*	*10 sec*	*11S*
Over Frequency (Hz)	*52*	*-*	*0.20S*
Under Frequency (Hz)	*47*	*1 sec*	*2S*
ROCOF (81R)	*+/- 4Hz/s*	*-*	*0.25S*
Vector Shift (78)	*8 Deg*	*-*	*Instantaneous*

VOLT-VAR and VOLT-WATT SETTINGS

REFERENCE	VOLTAGE	P OUTPUT/ P RATED (%)
Vw1	*253V*	*100*
Vw2	*260V*	*20*
VOLT VAR SETTINGS		
Vv1	*207V*	*44% Supplying*
Vv2	*220V*	*0*
Vv3	*240V*	*0*
Vv4	*258V*	*60% Absorbing*

AC VOLTAGE RISE (PV SYSTEM 1)

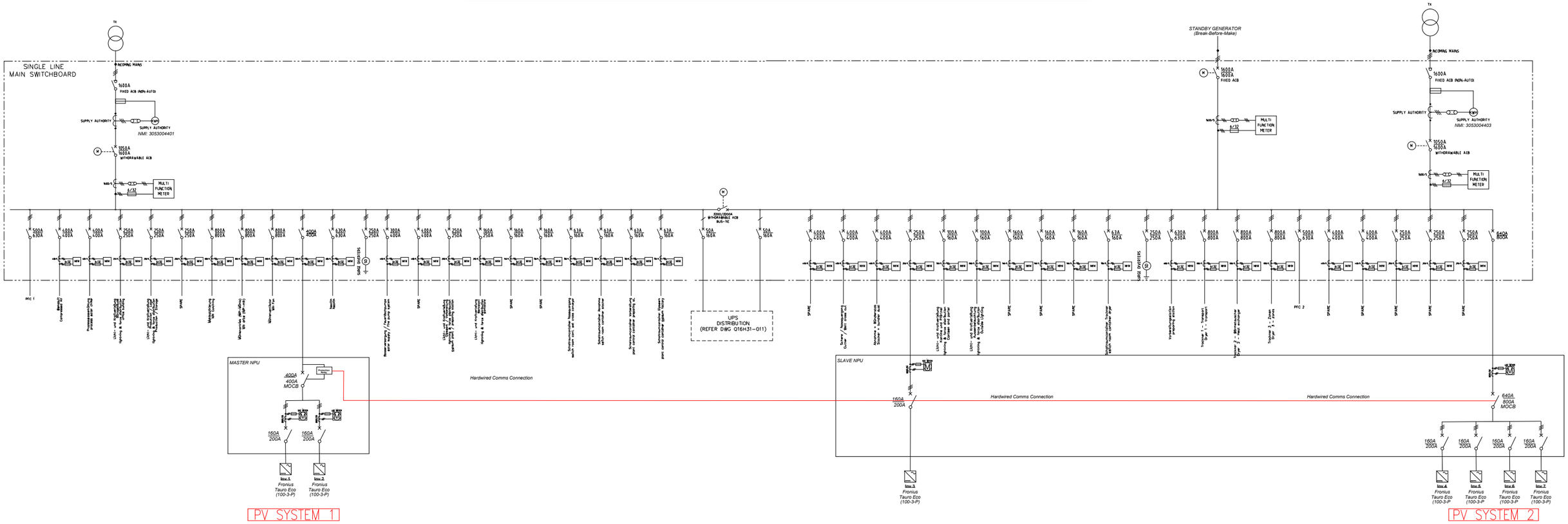
FROM	TO	CURRENT	LENGTH (m)	CABLE SIZE	EARTH CABLE	VOLTAGE RISE(V)	VOLTAGE RISE %
INVERTER 1	NPU 1	144.9	3	4 X 1CX95mm^2 +E,Cu XLPE-110deg	1CX25mm^2,Cu	0.19	0.05%
INVERTER 2	NPU 1	144.9	6	4 X 1CX95mm^2 +E,Cu XLPE-110deg	1CX25mm^2,Cu	0.37	0.09%
NPU 1	MSB1	289.8	15	4 X 1CX150mm^2 +E,Cu XLPE-110deg	1CX50mm^2,Cu	1.37	0.34%
MSB 1	TRANSFORMER 1	289.8	30	16 X 1CX240mm^2 +E,Cu XLPE-110deg	1CX240mm^2,Cu	0.46	0.11%
	TOTAL VOLTAGE RISE (VOLTS)	2.20					
	TOTAL VOLTAGE RISE %	0.54%					

AC VOLTAGE RISE (PV SYSTEM 2)

FROM	TO	CURRENT	LENGTH (m)	CABLE SIZE	EARTH CABLE	VOLTAGE RISE(V)	VOLTAGE RISE %
INVERTER 3	NPU 2	144.9	3	4 X 1CX95mm^2 +E,Cu XLPE-110deg	1CX25mm^2,Cu	0.19	0.05%
INVERTER 4	NPU 2	144.9	6	4 X 1CX95mm^2 +E,Cu XLPE-110deg	1CX25mm^2,Cu	0.37	0.09%
INVERTER 5	NPU 2	144.9	9	4 X 1CX95mm^2 +E,Cu XLPE-110deg	1CX25mm^2,Cu	0.56	0.14%
INVERTER 6	NPU 2	144.9	12	4 X 1CX95mm^2 +E,Cu XLPE-110deg	1CX25mm^2,Cu	0.74	0.19%
INVERTER 7	NPU 2	144.9	15	4 X 1CX95mm^2 +E,Cu XLPE-110deg	1CX25mm^2,Cu	0.93	0.23%
NPU 2	MSB2	724.5	15	4 X 1CX300mm^2 +E,Cu XLPE-110deg	1CX120mm^2,Cu	1.96	0.49%
MSB 2	TRANSFORMER 2	724.5	30	16 X 1CX240mm^2 +E,Cu XLPE-110deg	1CX240mm^2,Cu	1.15	0.29%
	TOTAL VOLTAGE RISE (VOLTS)	4.04					
	TOTAL VOLTAGE RISE %	1.01%					

INVERTER SPECIFICATION

MODEL	Fronius Tauro ECO 100-3-P
MAX. AC POWER RATING	100 KVA
MAX. DC INPUT VOLTAGE	1000 V
MAX. DC INPUT CURRENT	200 A
RATED AC VOLTAGE	400 V
MAX. AC OUTPUT CURRENT	144.9 A
INVERTER WEIGHT	103 kg



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CLIENT NAME: ETEX AUSTRALIA PTY LTD

PROJECT NUMBER: J3087

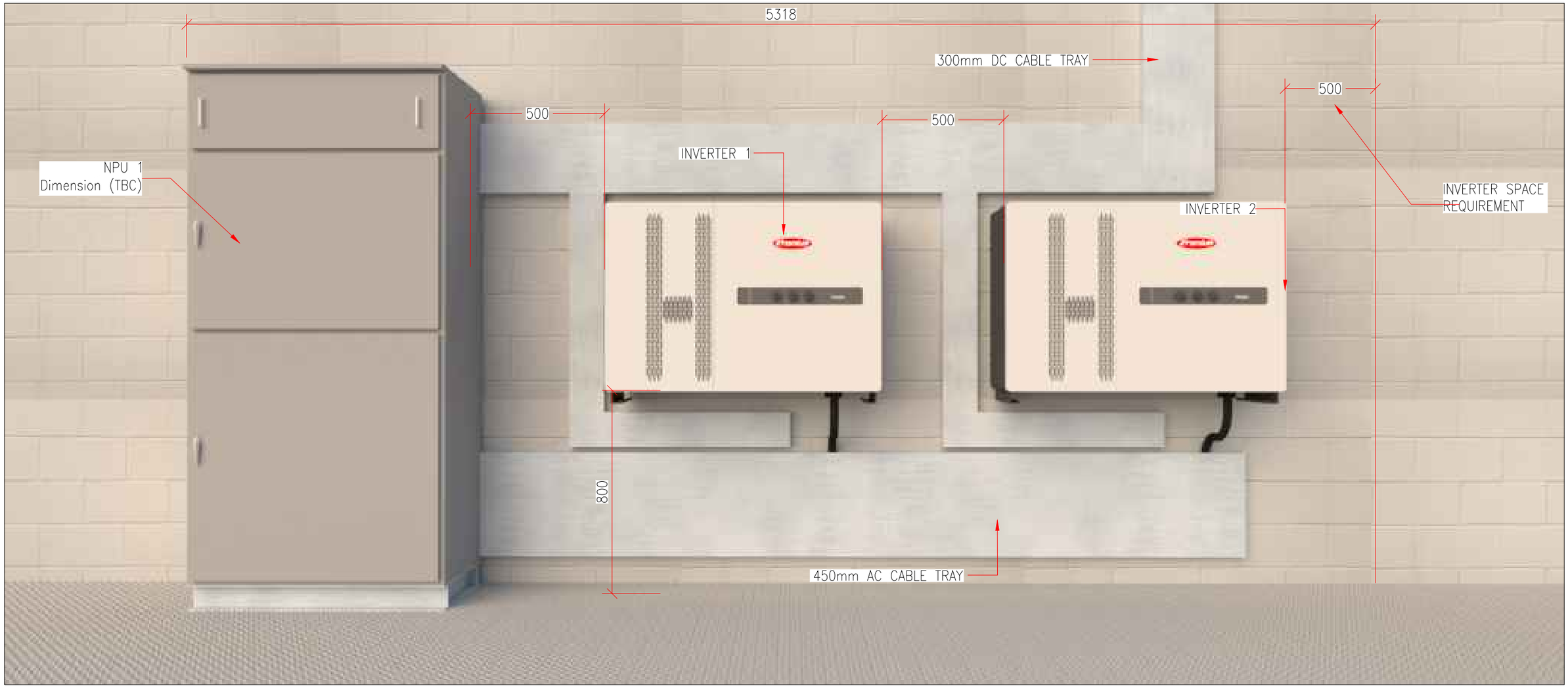
SITE ADDRESS: 96 Buss st. Burnett Heads QLD 4670

AC SLD

DWG NO: J3087 - 008

VER.	DESCRIPTION	DATE
1	ISSUED FOR CONSTRUCTION	04/09/2025

CONSTRUCTION PLAN



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CLIENT NAME: ETEX AUSTRALIA PTY LTD

PROJECT NUMBER: J3087

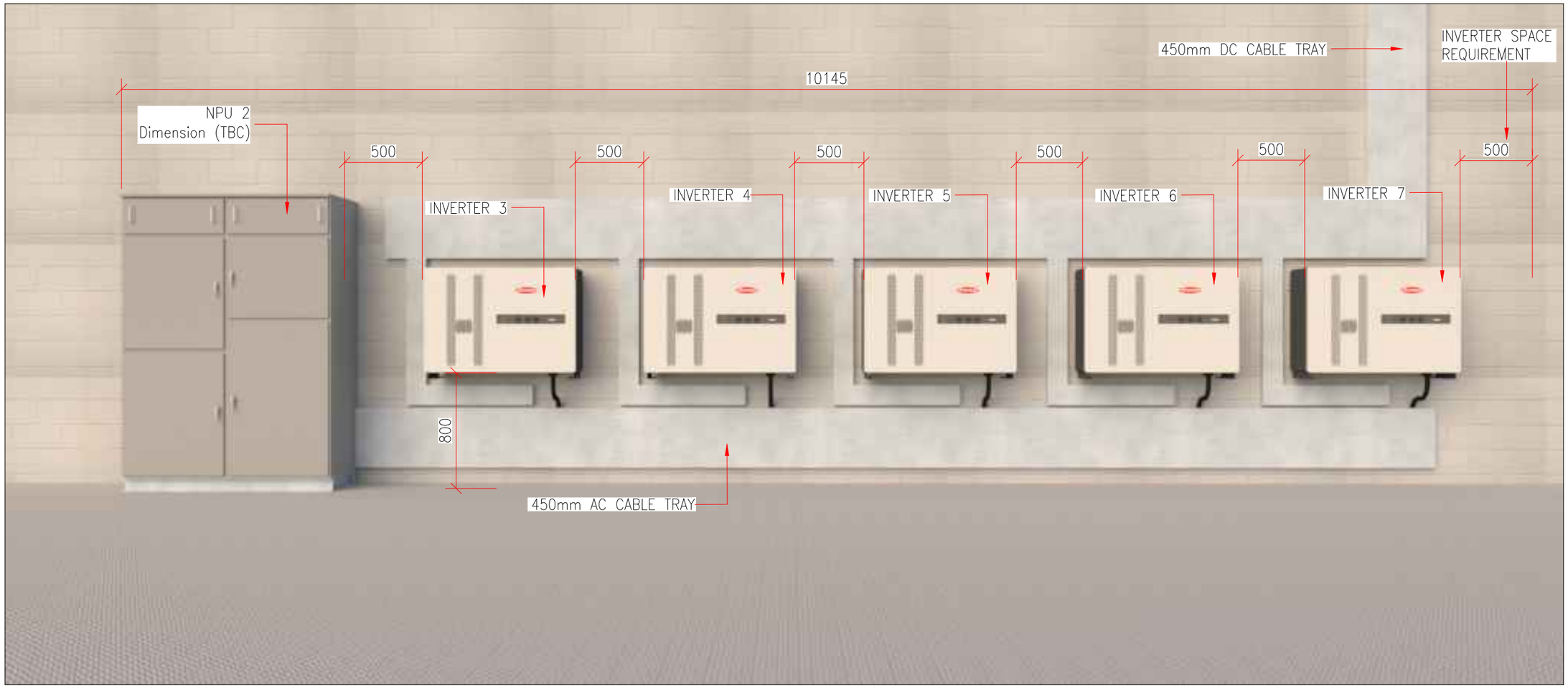
SITE ADDRESS: 96 Buss st. Burnett Heads QLD 4670

INVERTER STATION 1

DWG NO: J3087 - 009A

VER.	DESCRIPTION	DATE
1	ISSUED FOR CONSTRUCTION	04/09/2025

CONSTRUCTION PLAN



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CLIENT NAME: ETEX AUSTRALIA PTY LTD

PROJECT NUMBER: J3087

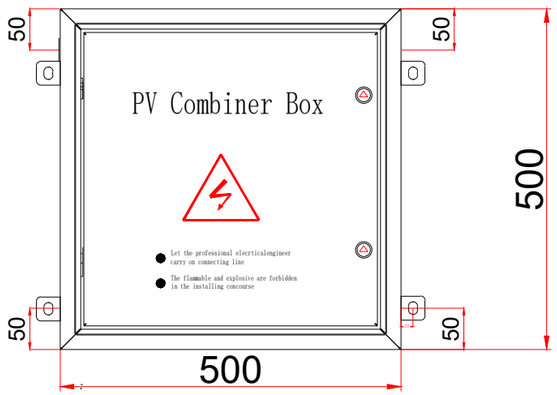
SITE ADDRESS: 96 Buss st. Burnett Heads QLD 4670

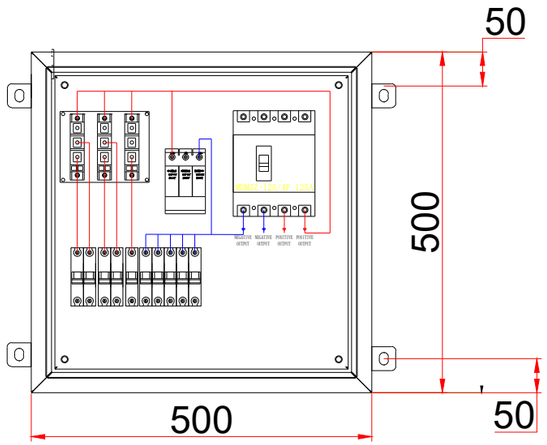
INVERTER STATION 2

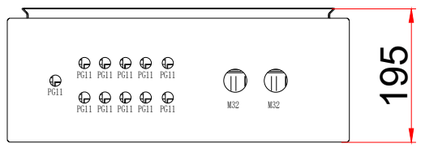
DWG NO: J3087 - 009B

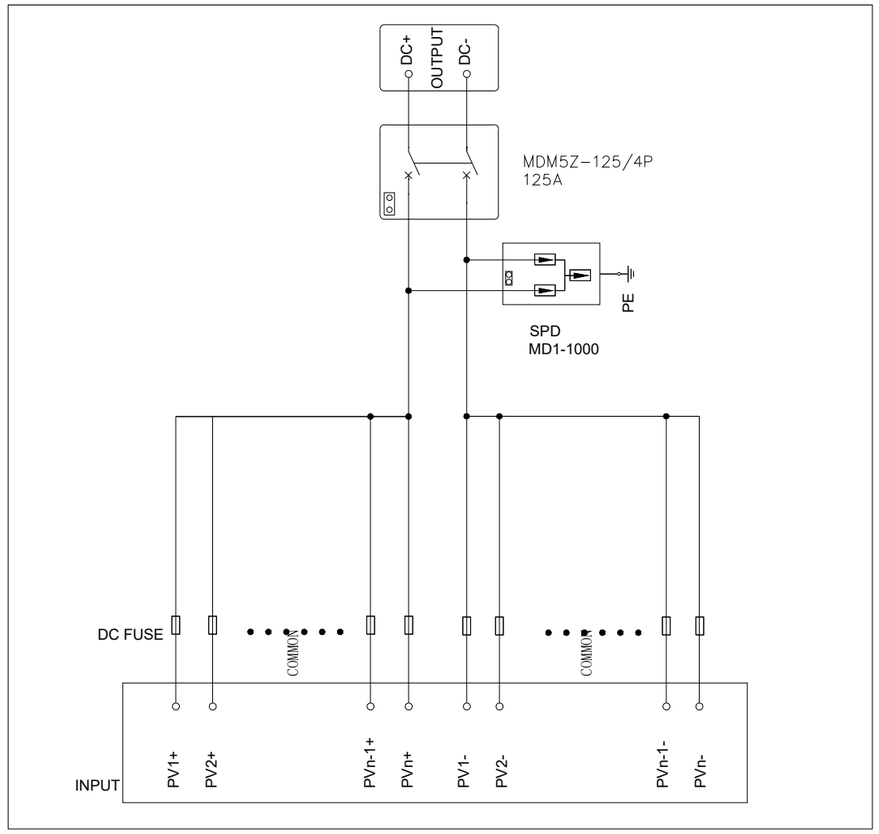
VER.	DESCRIPTION	DATE
1	ISSUED FOR CONSTRUCTION	04/09/2025

CONSTRUCTION PLAN









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PROJECT NUMBER: J3087

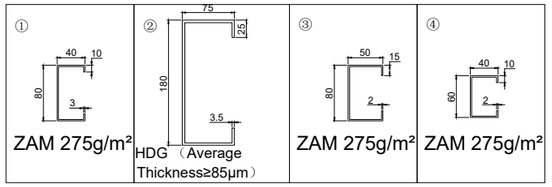
SITE ADDRESS: 96 Buss st. Burnett Heads QLD 4670

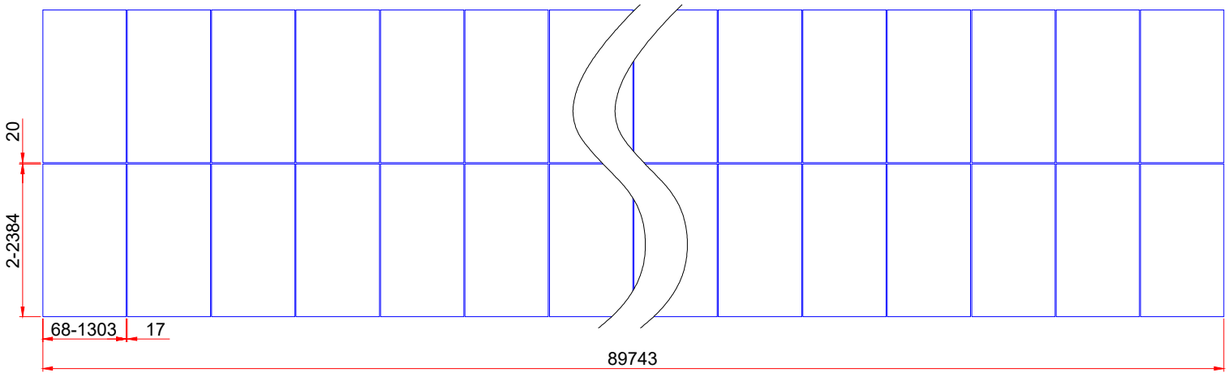
COMBINER BOX DETAILS

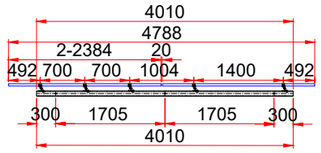
DWG NO: J3087 - 0010

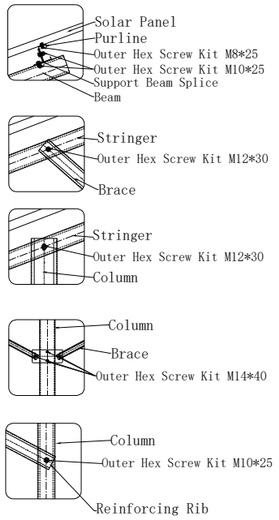
VER.	DESCRIPTION	DATE
1	ISSUED FOR CONSTRUCTION	04/09/2025

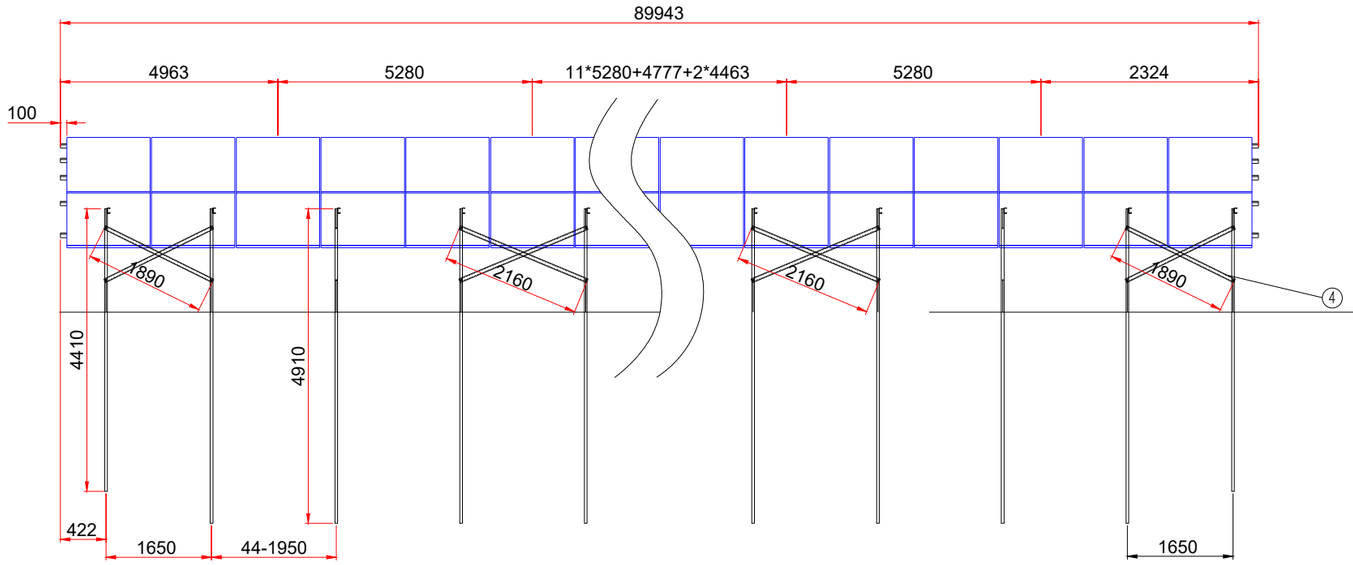
CONSTRUCTION PLAN

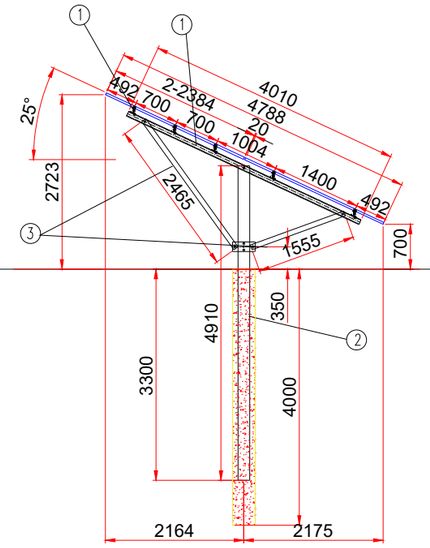


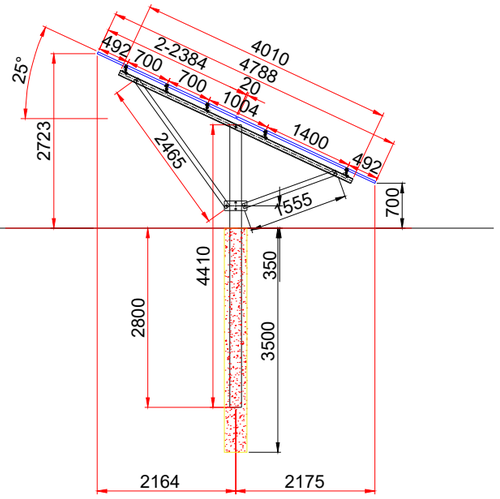












Technical information:

1.Module size is 2384x1303x33mm
2.Unit array is 2X68(136pcs)
3.Design wind speed is 69.3m/s
4.Design snow load is -kn/m²

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CLIENT NAME: ETEX AUSTRALIA PTY LTD

PROJECT NUMBER: J3087

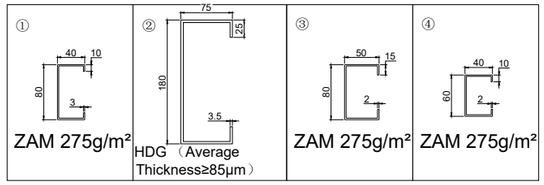
SITE ADDRESS: 96 Buss st. Burnett Heads QLD 4670

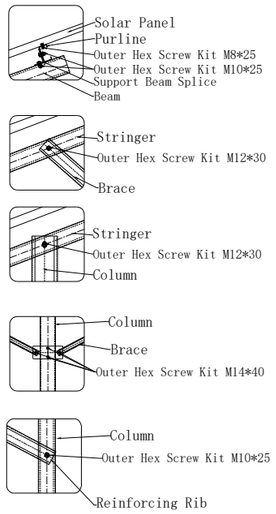
FIXED TILT SYSTEM DRAWING

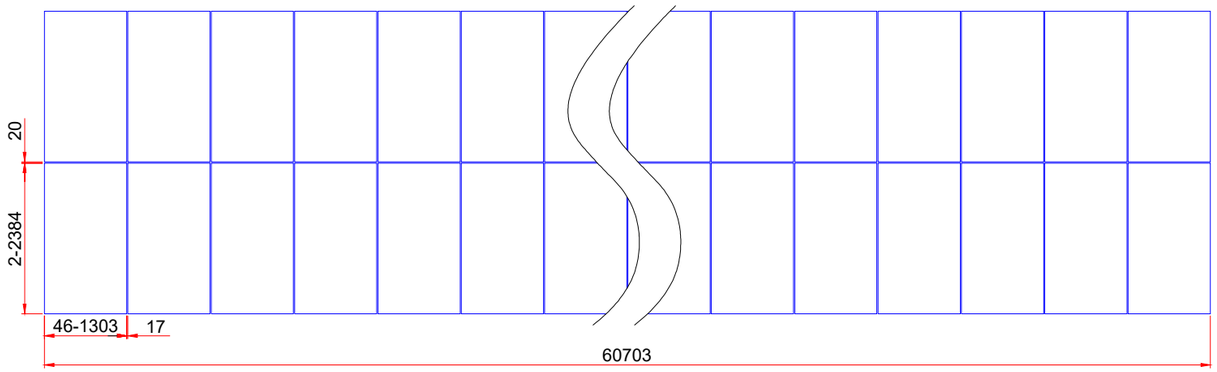
DWG NO: J3087 - 0011

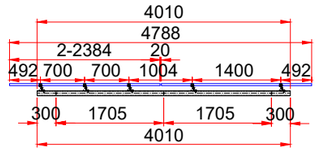
VER.	DESCRIPTION	DATE
1	ISSUED FOR CONSTRUCTION	04/09/2025

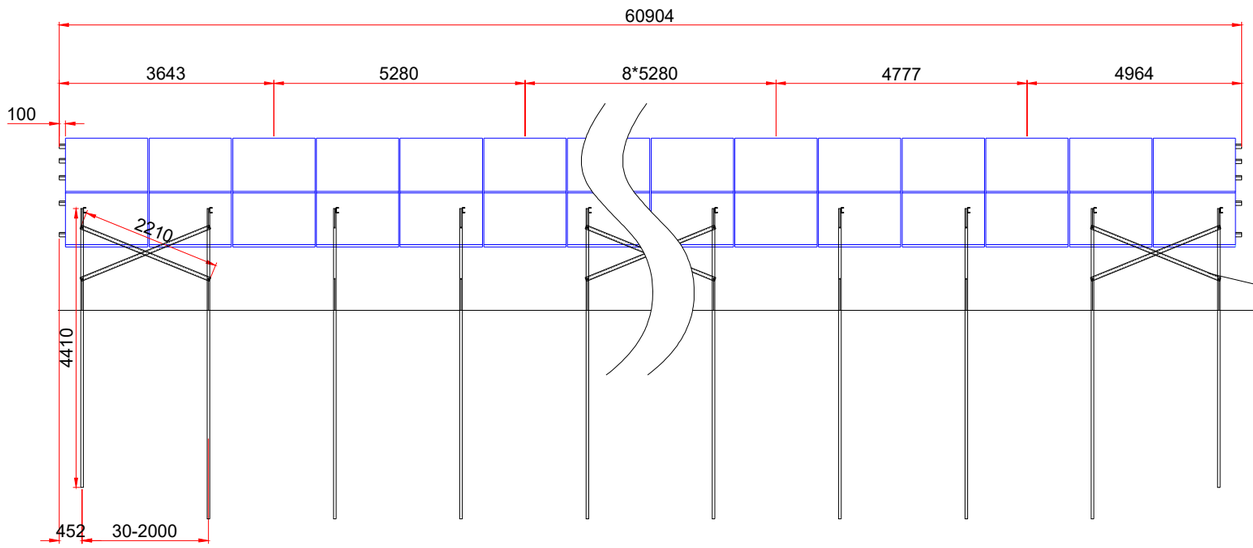
CONSTRUCTION PLAN

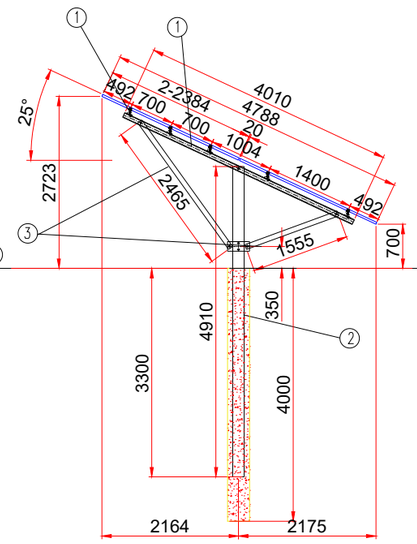


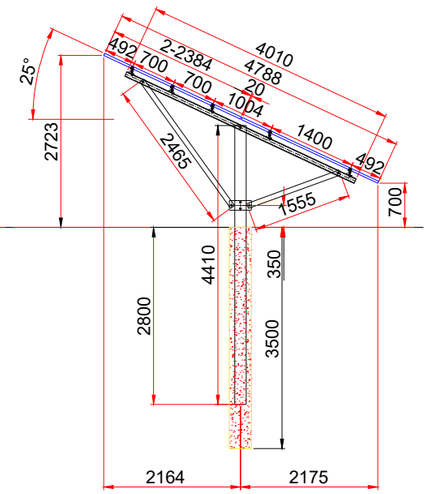












Technical information:

1.Module size is 2384x1303x33mm
2.Unit array is 2X46(92pcs)
3.Design wind speed is 69.3m/s
4.Design snow load is -kn/m²

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PROJECT NUMBER: J3087

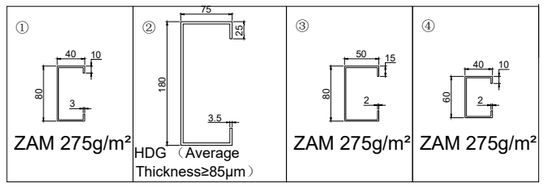
SITE ADDRESS: 96 Buss st. Burnett Heads QLD 4670

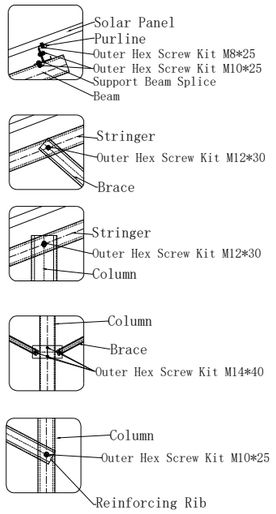
FIXED TILT SYSTEM DRAWING

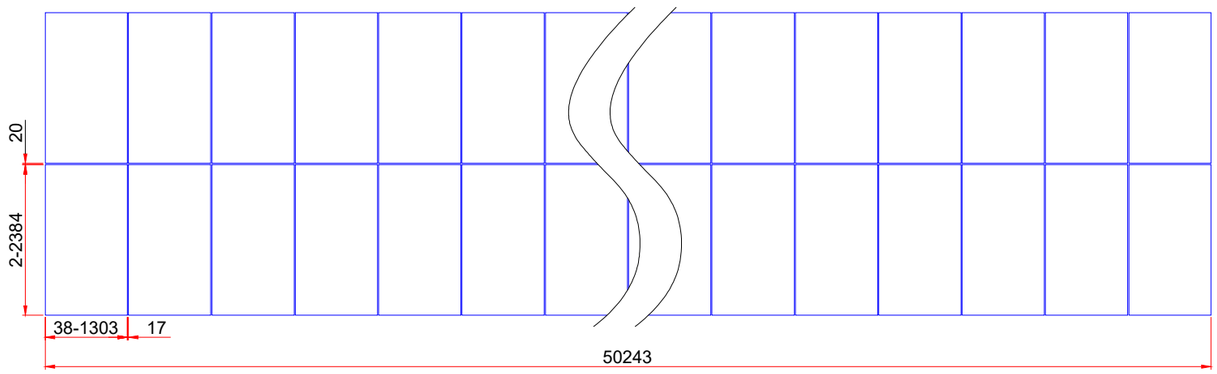
DWG NO: J3087 - 0012

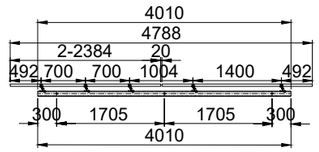
VER.	DESCRIPTION	DATE
1	ISSUED FOR CONSTRUCTION	04/09/2025

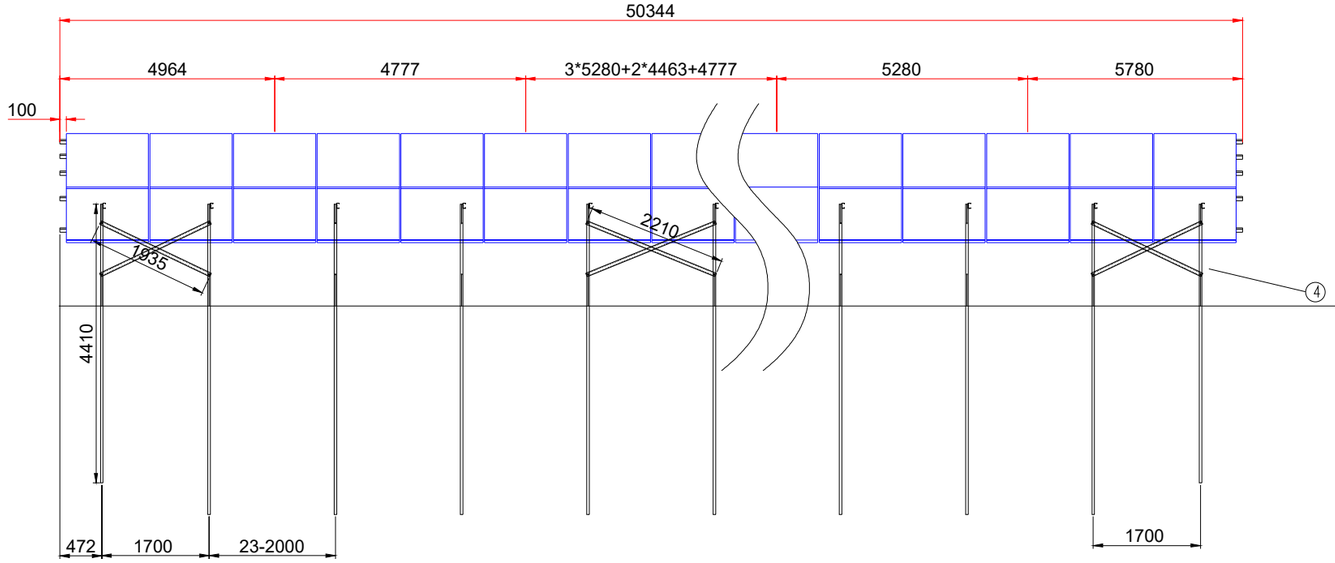
CONSTRUCTION PLAN

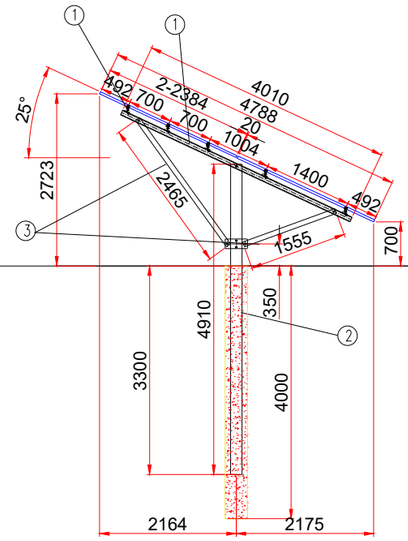


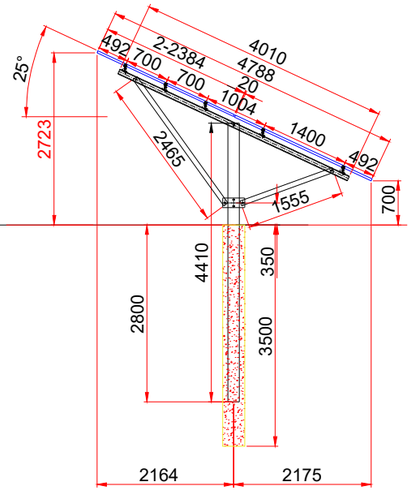












Technical information:

1.Module size is 2384x1303x33mm
2.Unit array is 2X38(76pcs)
3.Design wind speed is 69.3m/s
4.Design snow load is -kn/m²

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PROJECT NUMBER: J3087

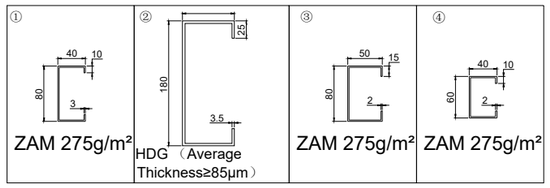
SITE ADDRESS: 96 Buss st. Burnett Heads QLD 4670

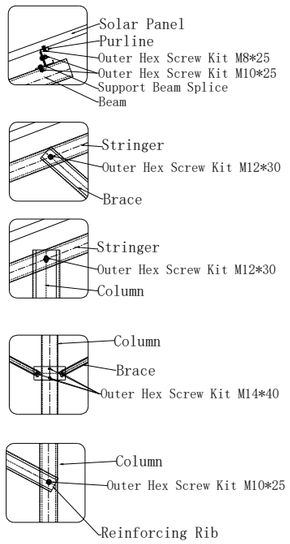
FIXED TILT SYSTEM DRAWING

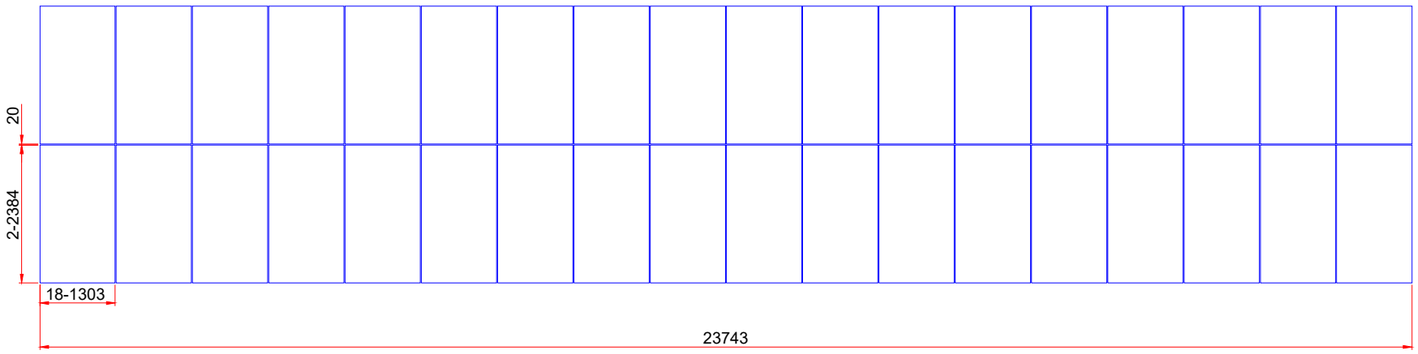
DWG NO: J3087 - 0013

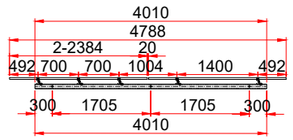
VER.	DESCRIPTION	DATE
1	ISSUED FOR CONSTRUCTION	04/09/2025

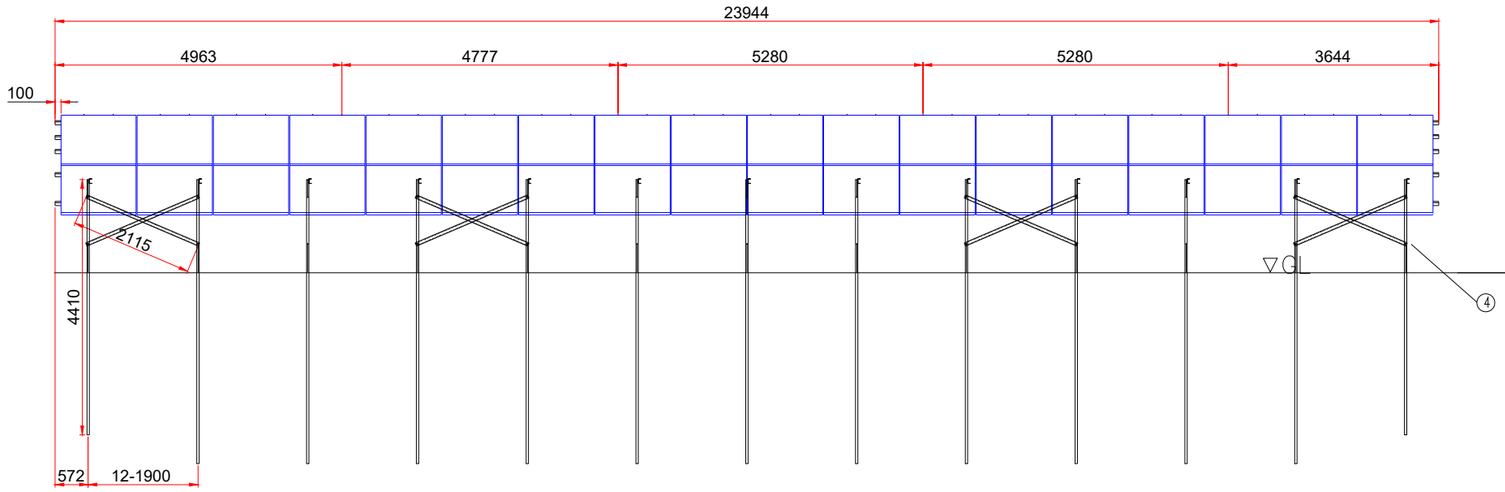
CONSTRUCTION PLAN

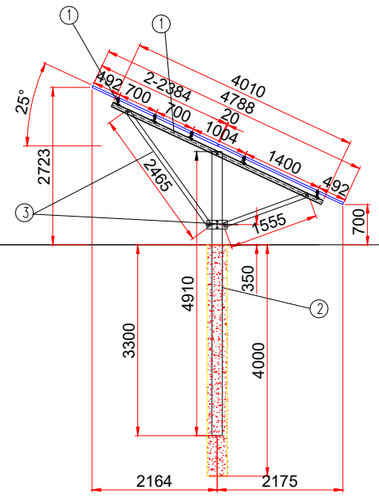


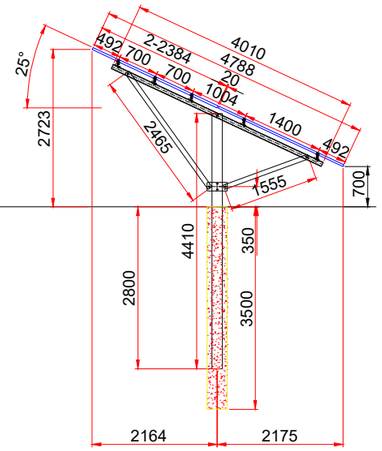












Technical information:

1.Module size is 2384x1303x33mm
2.Unit array is 2X18(36pcs)
3.Design wind speed is 69.3m/s
4.Design snow load is -kn/m²

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CLIENT NAME: ETEX AUSTRALIA PTY LTD

PROJECT NUMBER: J3087

SITE ADDRESS: 96 Buss st. Burnett Heads QLD 4670

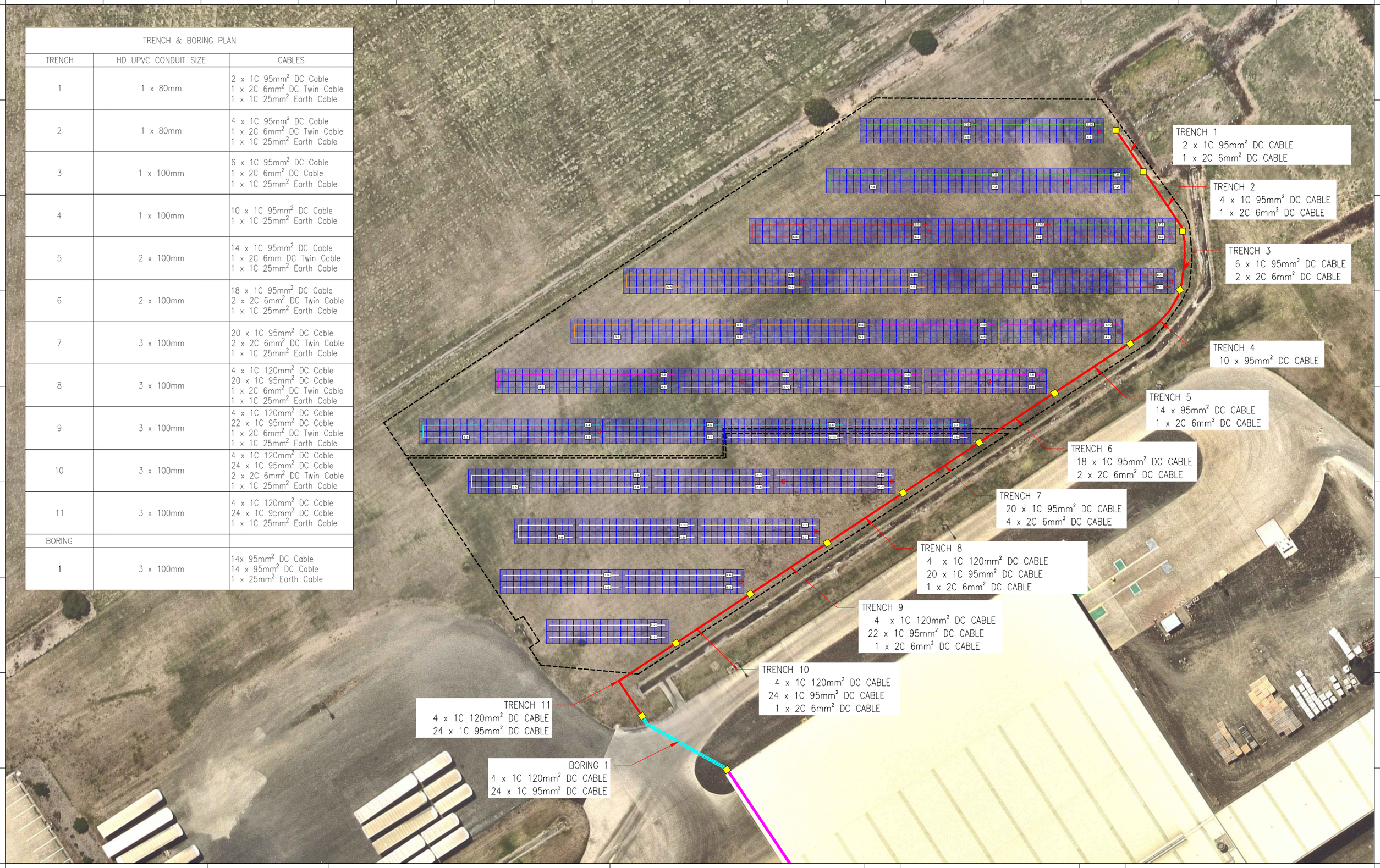
FIXED TILT SYSTEM DRAWING

DWG NO: J3087 - 0014

VER.	DESCRIPTION	DATE
1	ISSUED FOR CONSTRUCTION	04/09/2025

CONSTRUCTION PLAN

TRENCH & BORING PLAN		
TRENCH	HD UPVC CONDUIT SIZE	CABLES
1	1 x 80mm	2 x 1C 95mm² DC Cable 1 x 2C 6mm² DC Twin Cable 1 x 1C 25mm² Earth Cable
2	1 x 80mm	4 x 1C 95mm² DC Cable 1 x 2C 6mm² DC Twin Cable 1 x 1C 25mm² Earth Cable
3	1 x 100mm	6 x 1C 95mm² DC Cable 1 x 2C 6mm² DC Cable 1 x 1C 25mm² Earth Cable
4	1 x 100mm	10 x 1C 95mm² DC Cable 1 x 1C 25mm² Earth Cable
5	2 x 100mm	14 x 1C 95mm² DC Cable 1 x 2C 6mm DC Twin Cable 1 x 1C 25mm² Earth Cable
6	2 x 100mm	18 x 1C 95mm² DC Cable 2 x 2C 6mm² DC Twin Cable 1 x 1C 25mm² Earth Cable
7	3 x 100mm	20 x 1C 95mm² DC Cable 2 x 2C 6mm² DC Twin Cable 1 x 1C 25mm² Earth Cable
8	3 x 100mm	4 x 1C 120mm² DC Cable 20 x 1C 95mm² DC Cable 1 x 2C 6mm² DC Twin Cable 1 x 1C 25mm² Earth Cable
9	3 x 100mm	4 x 1C 120mm² DC Cable 22 x 1C 95mm² DC Cable 1 x 2C 6mm² DC Twin Cable 1 x 1C 25mm² Earth Cable
10	3 x 100mm	4 x 1C 120mm² DC Cable 24 x 1C 95mm² DC Cable 2 x 2C 6mm² DC Twin Cable 1 x 1C 25mm² Earth Cable
11	3 x 100mm	4 x 1C 120mm² DC Cable 24 x 1C 95mm² DC Cable 1 x 1C 25mm² Earth Cable
BORING		
1	3 x 100mm	14x 95mm² DC Cable 14 x 95mm² DC Cable 1 x 25mm² Earth Cable



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CLIENT NAME: ETEX AUSTRALIA PTY LTD

PROJECT NUMBER: J3087

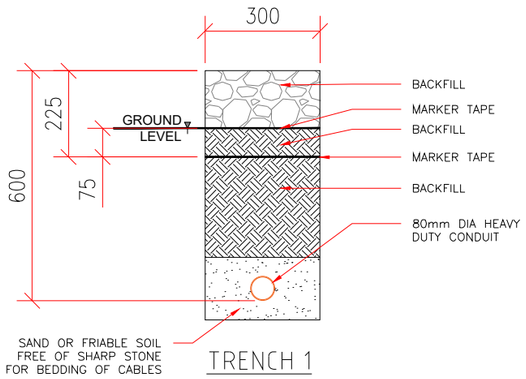
SITE ADDRESS: 96 Buss st. Burnett Heads QLD 4670

TRENCHING LAYOUT

DWG NO: J3087 - 0016

VER.	DESCRIPTION	DATE
1	ISSUED FOR CONSTRUCTION	04/09/2025

CONSTRUCTION PLAN



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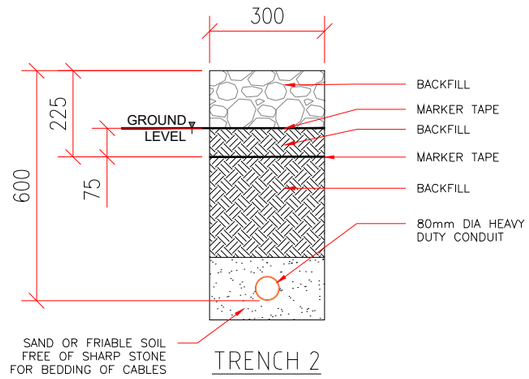

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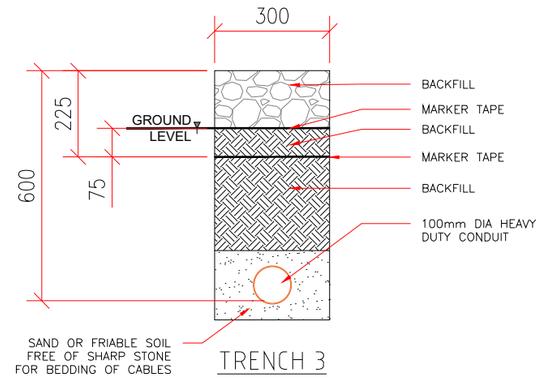

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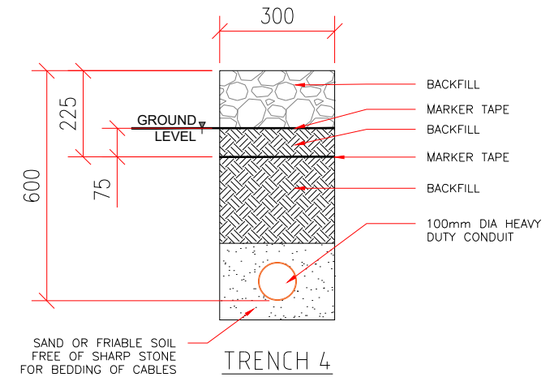

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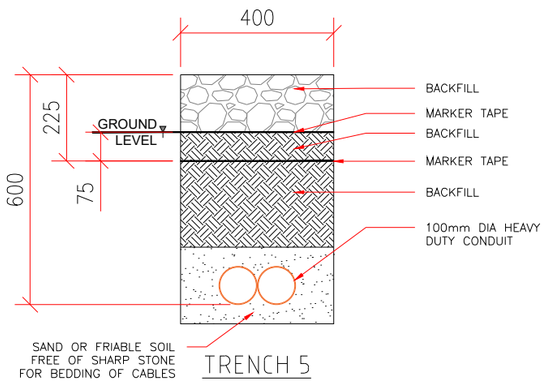

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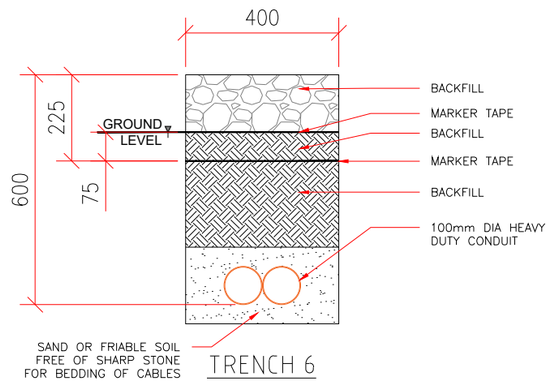

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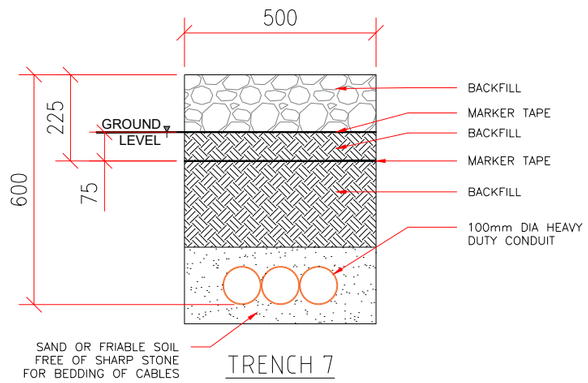

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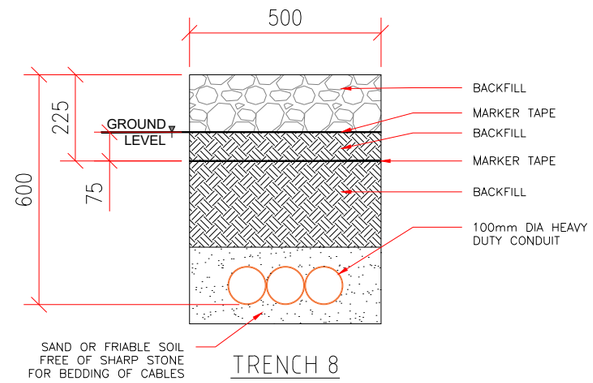

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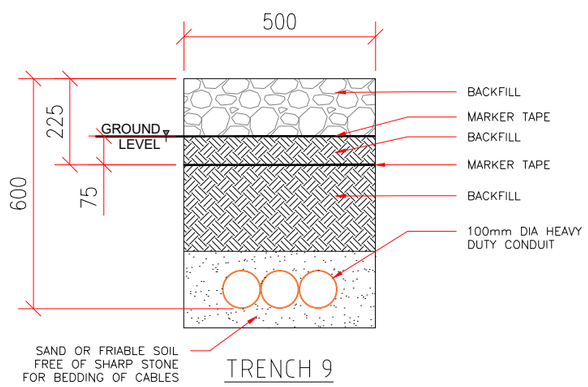
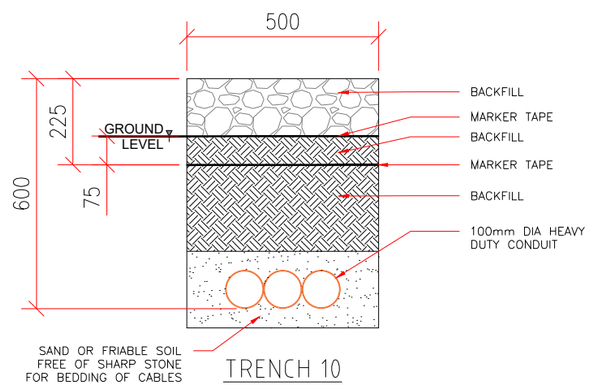
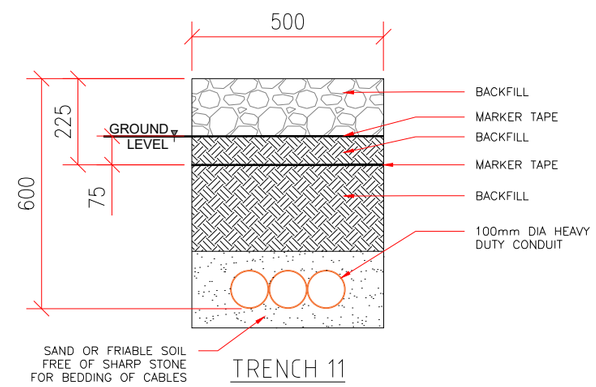


TRENCH 9



TRENCH 10



TRENCH 11

KUGA ENERGY

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CLIENT NAME: ETEX AUSTRALIA PTY LTD

PROJECT NUMBER: J3087

SITE ADDRESS: 96 Buss st. Burnett Heads QLD 4670

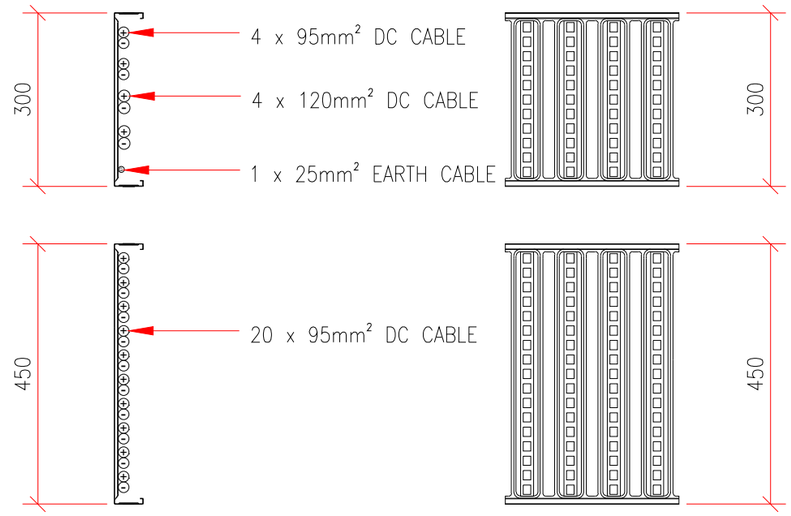
TRENCHING DETAILS

DWG NO: J3087 - 0017

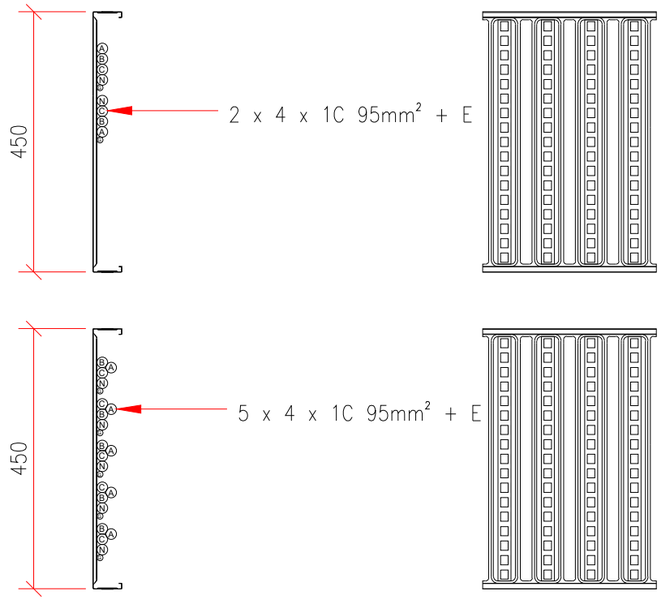
VER.	DESCRIPTION	DATE
1	ISSUED FOR CONSTRUCTION	04/09/2025

CONSTRUCTION PLAN

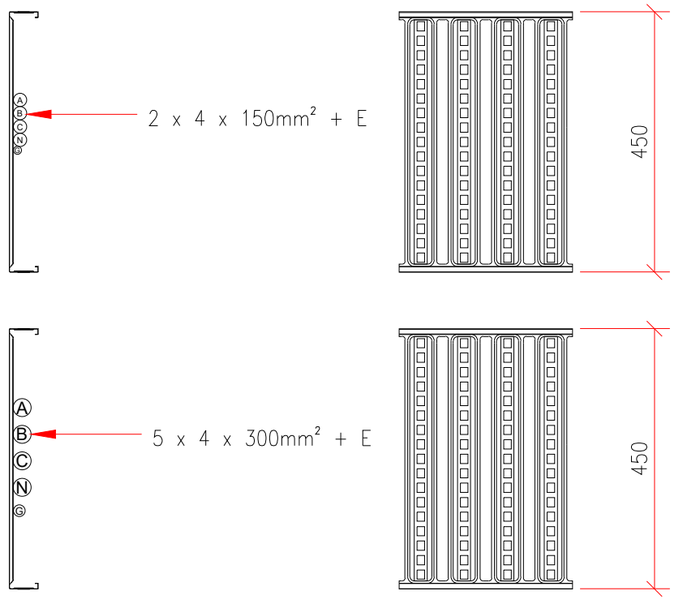
DC CABLE TRAY SCHEMATIC



INVERTER TO PVDB CABLE TRAY SCHEMATIC



PVDB TO MSB CABLE TRAY SCHEMATIC



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CLIENT NAME: ETEX AUSTRALIA PTY LTD

PROJECT NUMBER: J3087

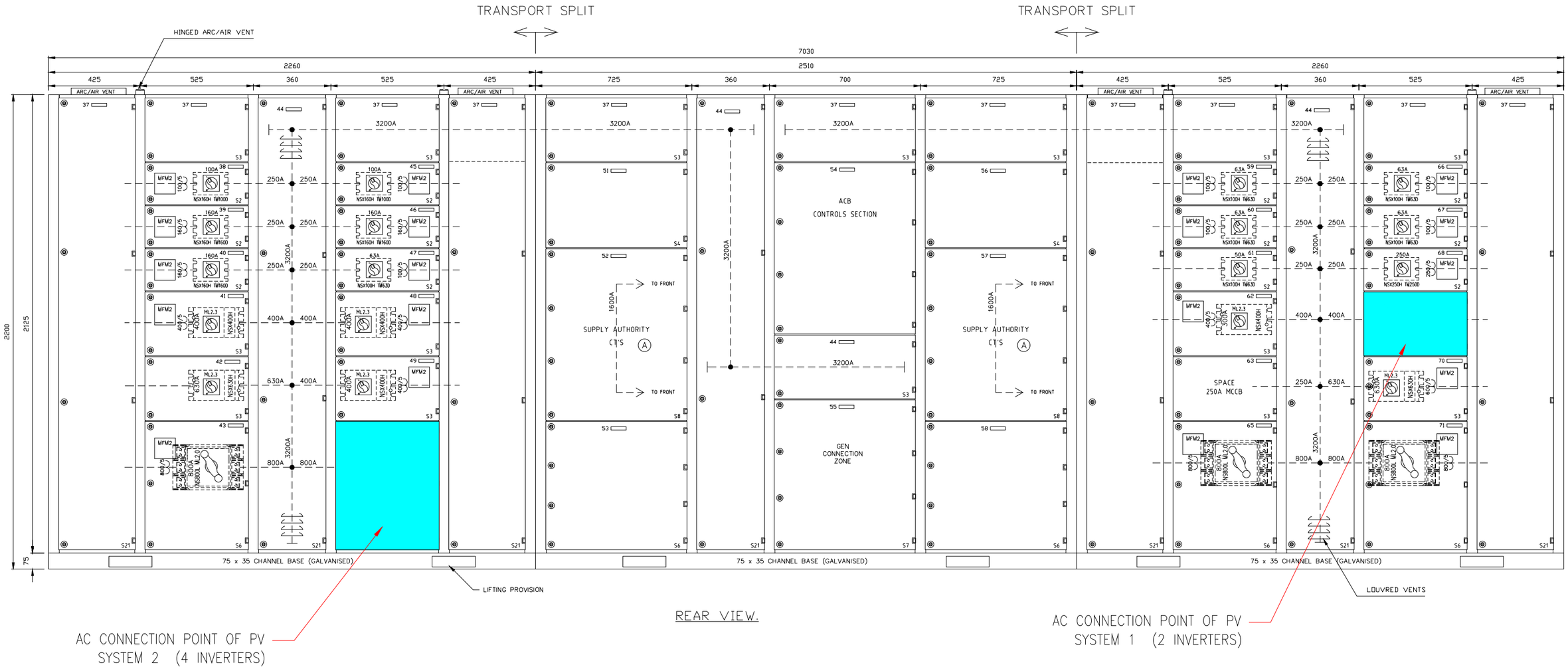
SITE ADDRESS: 96 Buss st. Burnett Heads QLD 4670

CABLE TRAY

DWG NO: J3087 - 0018

VER.	DESCRIPTION	DATE
1	ISSUED FOR CONSTRUCTION	04/09/2025

CONSTRUCTION PLAN



REAR VIEW.

AC CONNECTION POINT DETAILS:

1. AC CONNECTION POINT WILL BE THE SPARE SLOT IN THE MSB.
2. THE SPARE SLOT IS AVAILABLE FOR FUTURE CONNECTION.
3. FOR THE PV SYSTEM 1 AND 2 (4 INVERTERS), A 400A AND 800A BREAKER NEEDS TO BE INSTALLED IN THE SPARE SLOT OF MSB WHERE THE PVDB1 WILL BE CONNECTED.
4. ESTIMATED TIME OF SHUTDOWN FOR THE CONNECTION OF AC CABLES WILL BE 2 TO 2.5 HOURS EACH.

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CLIENT NAME: ETEX AUSTRALIA PTY LTD

PROJECT NUMBER: J3087

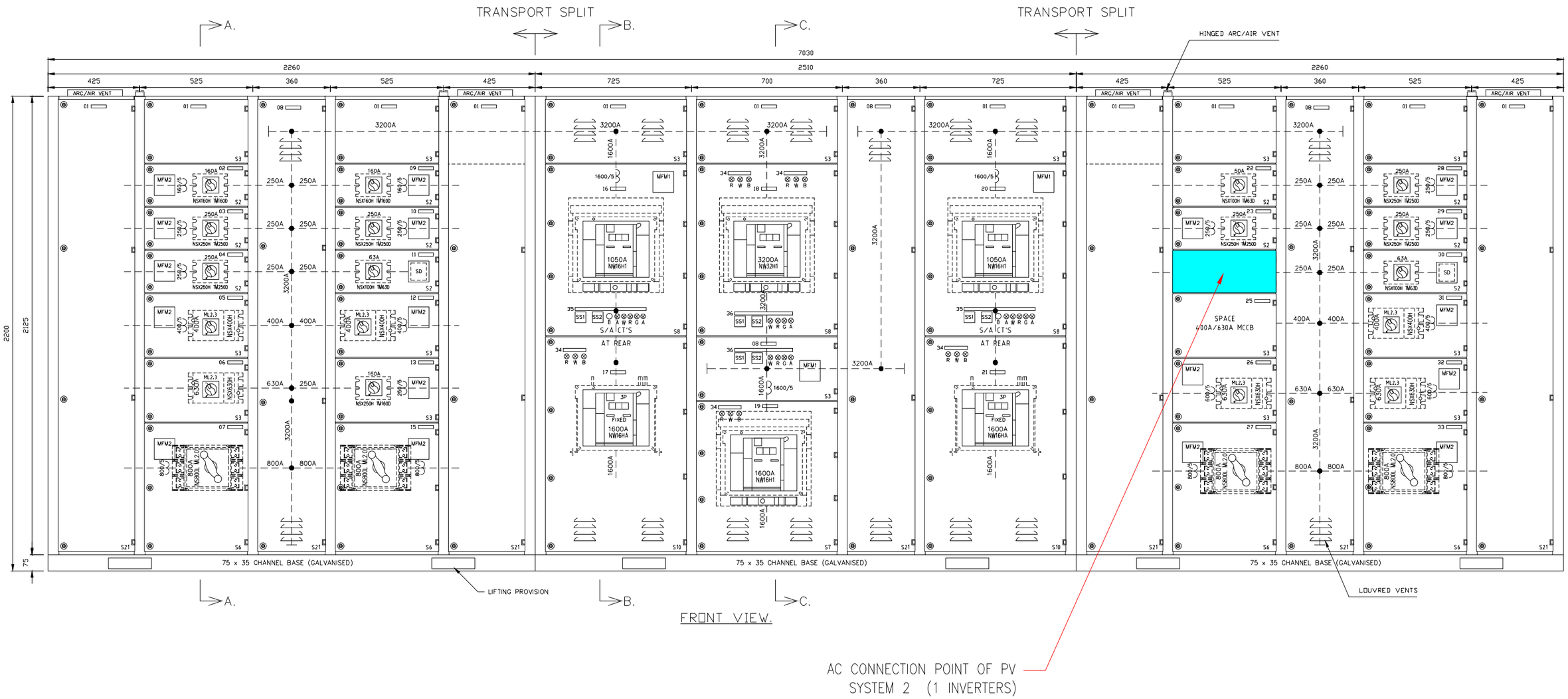
SITE ADDRESS: 96 Buss st. Burnett Heads QLD 4670

AC CONNECTION

DWG NO: J3087 - 0019A

VER.	DESCRIPTION	DATE
1	ISSUED FOR CONSTRUCTION	04/09/2025

CONSTRUCTION PLAN



AC CONNECTION POINT DETAILS:

1. AC CONNECTION POINT WILL BE THE SPARE SLOT IN THE MSB.
2. THE SPARE SLOT IS AVAILABLE FOR FUTURE CONNECTION.
3. FOR THE PV SYSTEM 1 (1 INVERTERS), A 250A BREAKER NEEDS TO BE INSTALLED IN THE SPARE SLOT OF MSB WHERE THE PVDB1 WILL BE CONNECTED.
4. ESTIMATED TIME OF SHUTDOWN FOR THE CONNECTION OF AC CABLES WILL BE 2 TO 2.5 HOURS EACH.

KUGA ENERGY

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CLIENT NAME: ETEX AUSTRALIA PTY LTD

PROJECT NUMBER: J3087

SITE ADDRESS: 96 Buss st. Burnett Heads QLD 4670

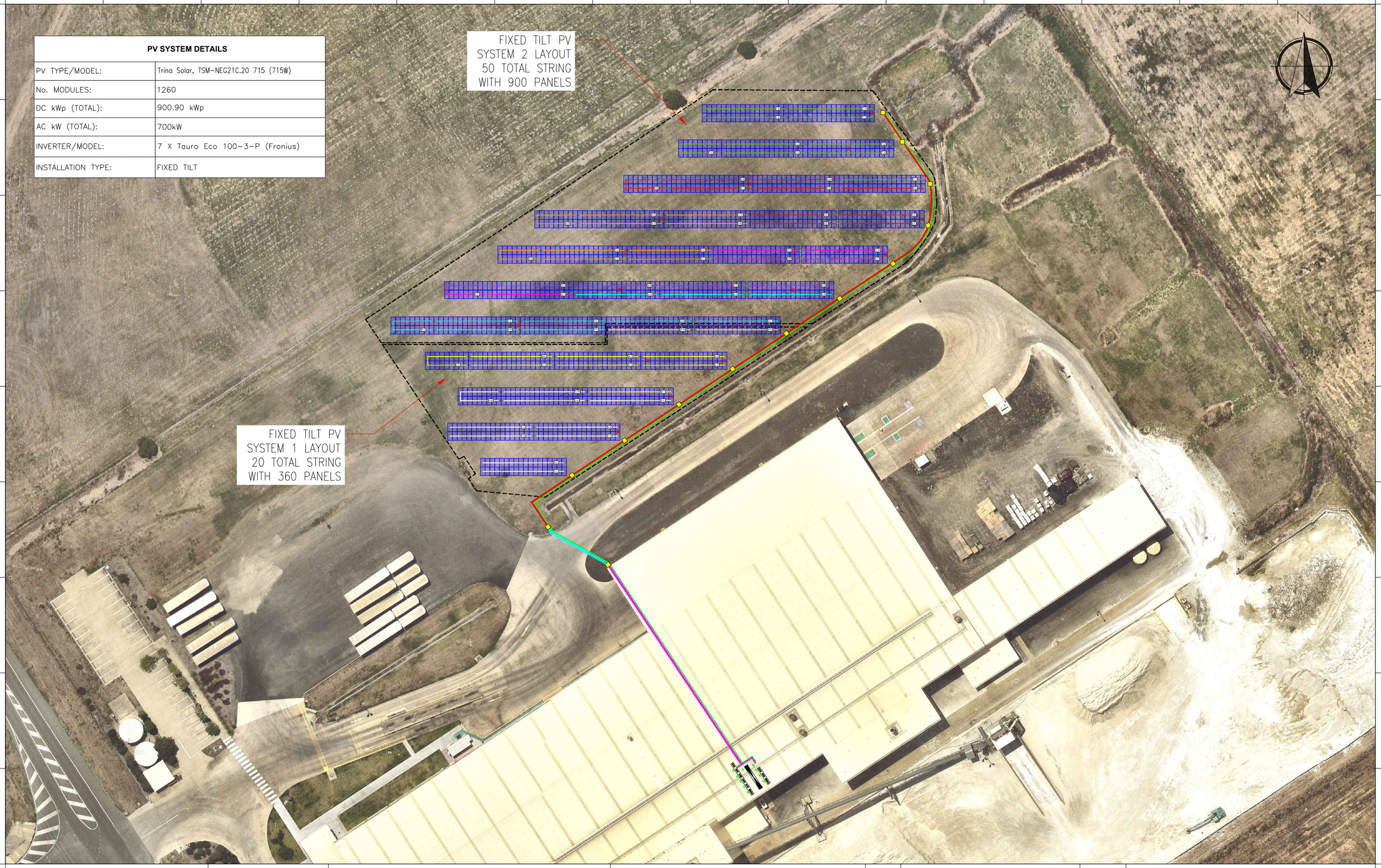
AC CONNECTION

DWG NO: J3087 - 0019B

VER.	DESCRIPTION	DATE
1	ISSUED FOR CONSTRUCTION	04/09/2025

CONSTRUCTION PLAN

PV SYSTEM DETAILS	
PV TYPE/MODEL:	Trina Solar, TSM-NEG21C.20 715 (715W)
No. MODULES:	1260
DC kWp (TOTAL):	900.90 kWp
AC kW (TOTAL):	700kW
INVERTER/MODEL:	7 X Tauro Eco 100-3-P (Fronius)
INSTALLATION TYPE:	FIXED TILT



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CLIENT NAME: ETEX AUSTRALIA PTY LTD

PROJECT NUMBER: J3087

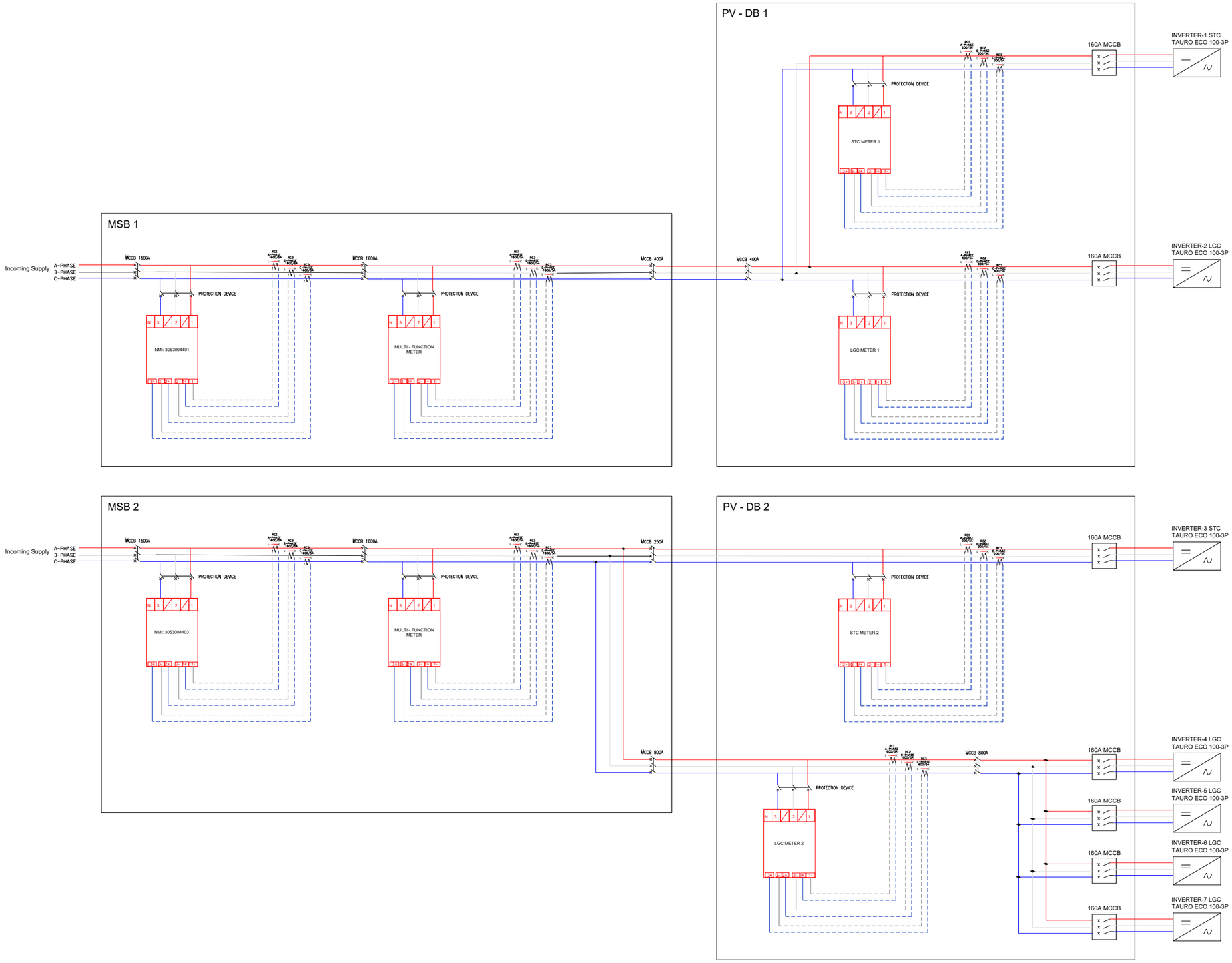
SITE ADDRESS: 96 Buss st. Burnett Heads QLD 4670

EARTHING LAYOUT

DWG NO: J3087 - 0020

VER.	DESCRIPTION	DATE
1	ISSUED FOR CONSTRUCTION	04/09/2025

CONSTRUCTION PLAN



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CLIENT NAME: ETEX AUSTRALIA PTY LTD

PROJECT NUMBER: J3087

SITE ADDRESS: 96 Buss st. Burnett Heads QLD 4670

METERING

DWG NO: J3087 - 0021

VER.	DESCRIPTION	DATE
1	ISSUED FOR CONSTRUCTION	04/09/2025

CONSTRUCTION PLAN

REVIEW AND APPROVAL

NAME	COMPANY	POSITION	EMAIL ADDRESS	SIGNATURE
JOHN KURTA	KUGA ENERGY	MANAGING DIRECTOR	j.kurta@kuga.energy	
CLEMENT DOUDET	KUGA ENERGY	GENERAL MANAGER	c.doudet@kuga.energy	
ADAM MOHSIN	KUGA ENERGY	HEAD OF ENGINEERING	a.mohsin@kuga.energy	
JUSTIN LUMSDEN	KUGA ENERGY	PROJECT MANAGER	j.lumsden@kuga.energy	
WILLIAM KEAST	ETEX AUSTRALIA PTY LTD	TECHNICAL MANAGER	william.keast@etexgroup.com	

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CLIENT NAME: ETEX AUSTRALIA PTY LTD

PROJECT NUMBER: J3087

SITE ADDRESS: 96 Buss st. Burnett Heads QLD 4670

REVIEW AND APPROVAL

DWG NO: J3087 - 0022

VER.	DESCRIPTION	DATE
1	ISSUED FOR CONSTRUCTION	04/09/2025

CONSTRUCTION PLAN

Vertex N

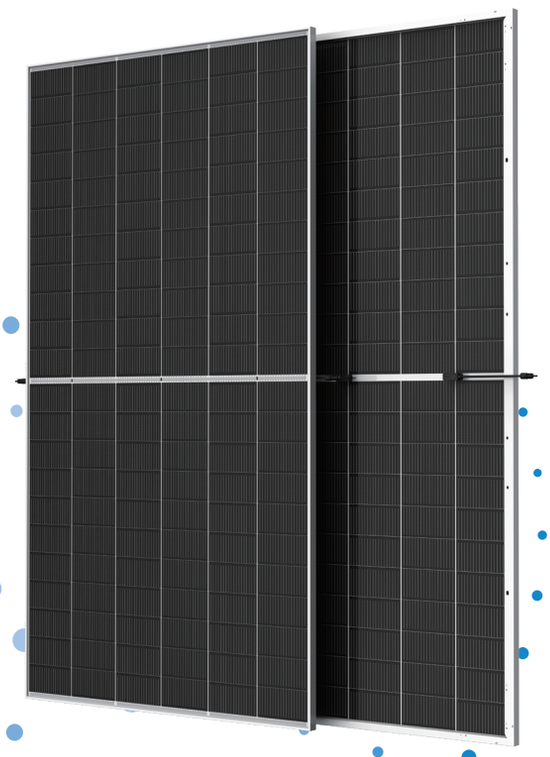
N-type i-TOPCon bifacial dual glass

Monocrystalline module

PRODUCT: TSM-NEG21C.20

POWER RANGE: 695-720W

720W	0~+5W	23.2%
MAXIMUM POWER OUTPUT	POSITIVE POWER TOLERANCE	MAXIMUM EFFICIENCY



High customer value

- Standardized module size with flagship module power, 35W higher compared with conventional technology
- Low voltage design with higher string power, effectively reducing BOS (Balance of System) and LCOE (Levelized Cost of Energy) by 2%~6%
- Higher container space utilization effectively reduces the freight cost
- Certified Low-Carbon Footprint
- The Star of LCOE

High power up to 720W

- Up to 23.2% module efficiency , on 210 innovation platform
- Patented i-TOPCon technology with continous efficiency improvement, including contact resistance reduction, rear reflection enhancement and edge quality repairment

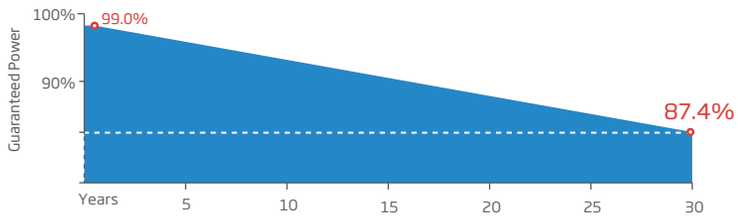
High reliability

- Minimized micro-cracks with innovative non-destructive cutting technology and high-density packaging
- Reduced risks of hot-spot with half-cut technology
- Certified high resistance against salt, ammonia, sand, PID, LID, LeTID
- Sustainable in harsh environments and extreme weather conditions

High energy yield

- Excellent low irradiation performance, validated by 3rd party
- Lower temperature coefficient (-0.29%/°C)
- Higher bifaciality, with up to 10%~20% additional power gain from back side depending on albedo
- Reliable dual-glass structure with 30-year power guarantee

Trina Solar's Vertex Bifacial Dual Glass Performance Warranty



Comprehensive Products and System Certificates

IEC61215/IEC61730/IEC61701/IEC62716
ISO 9001: Quality Management System
ISO 14001: Environmental Management System
ISO14064: Greenhouse Gases Emissions Verification
ISO45001: Occupational Health and Safety Management System
ISO14067: Product Carbon Footprint Limited Assurance

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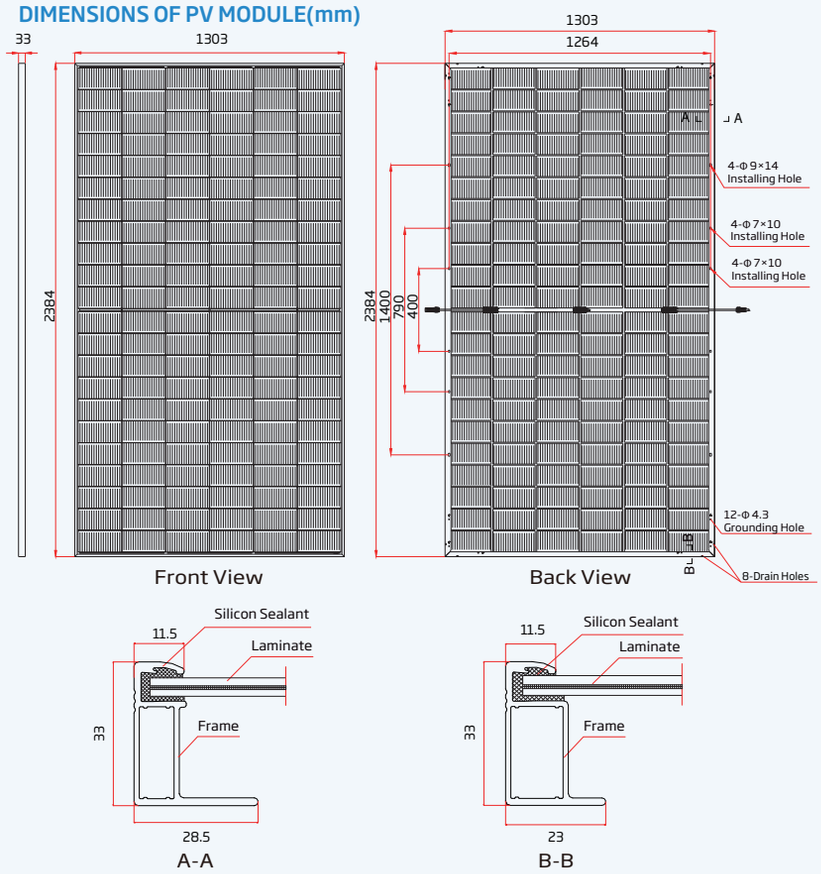
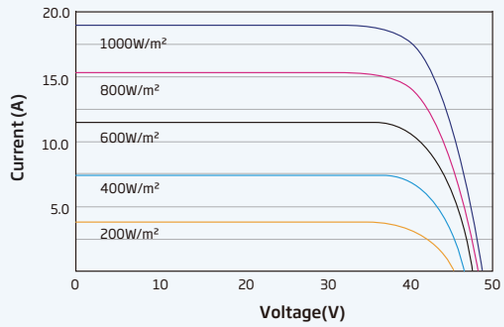
Vertex N

N-type i-TOPCon bifacial dual glass Monocrystalline module

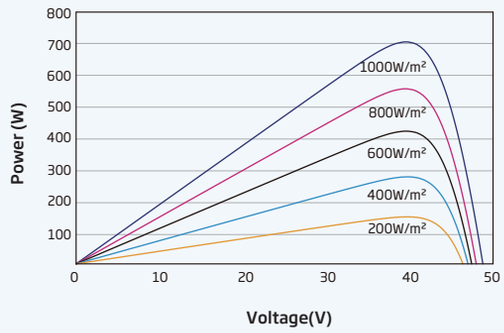
DIMENSIONS OF PV MODULE(mm)



I-V CURVES OF PV MODULE(705 W)



P-V CURVES OF PV MODULE(705 W)



MECHANICAL DATA

Solar Cells	N-type i-TOPCon Monocrystalline
No. of cells	132 cells
Module Dimensions	2384×1303×33 mm (93.86×51.30×1.30 inches)
Weight	38.3 kg (84.4 lb)
Front Glass	2.0 mm (0.08 inches), High Transmission, AR Coated Heat Strengthened Glass
Encapsulant material	POE/EVA
Back Glass	2.0 mm (0.08 inches), Heat Strengthened Glass (White Grid Glass)

Frame	33mm(1.30 inches) Anodized Aluminium Alloy
J-Box	IP 68 rated
Cables	Photovoltaic Technology Cable 4.0mm² (0.006 inches²) Portrait: 350/280 mm(13.78/11.02 inches) Length can be customized
Connector	MC4 EVO2 / TS4 Plus / TS4*

*Please refer to regional datasheet for specified connector.

ELECTRICAL DATA (STC & NOCT)

Testing Condition	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Peak Power Watts-P_{MAX} (Wp)*	695	531	700	534	705	540	710	543	715	547	720	551
Power Tolerance-P_{MAX} (W)	0 ~ +5											
Maximum Power Voltage-V_{MPP} (V)	40.3	37.9	40.5	38.0	40.7	38.3	40.9	38.5	41.1	38.7	41.3	38.8
Maximum Power Current-I_{MPP} (A)	17.25	14.00	17.29	14.04	17.33	14.08	17.36	14.12	17.40	14.14	17.44	14.19
Open Circuit Voltage-V_{OC} (V)	48.3	45.9	48.6	46.1	48.8	46.3	49.0	46.5	49.2	46.7	49.4	46.9
Short Circuit Current-I_{SC} (A)	18.28	14.72	18.32	14.76	18.36	14.80	18.40	14.83	18.44	14.86	18.49	14.90
Module Efficiency η_m (%)	22.4		22.5		22.7		22.9		23.0		23.2	

STC: Irrdiance 1000W/m2, Cell Temperature 25°C, Air Mass AM1.5. NOCT: Irradiance at 800W/m², Ambient Temperature 20°C, Wind Speed 1m/s. *Measuring tolerance: ±3%.

Electrical characteristics with different power bin (reference to 5% & 10% backside power gain)

Backside Power Gain	5%	10%	5%	10%	5%	10%	5%	10%	5%	10%	5%	10%
Total Equivalent power -P_{MAX} (Wp)	730	765	735	770	740	776	746	781	751	787	756	792
Maximum Power Voltage-V_{MPP} (V)	40.3	40.3	40.5	40.5	40.7	40.7	40.9	40.9	41.1	41.1	41.3	41.3
Maximum Power Current-I_{MPP} (A)	18.11	18.98	18.15	19.02	18.20	19.06	18.23	19.10	18.27	19.14	18.31	19.18
Open Circuit Voltage-V_{OC} (V)	48.3	48.3	48.6	48.6	48.8	48.8	49.0	49.0	49.2	49.2	49.4	49.4
Short Circuit Current-I_{SC} (A)	19.19	20.11	19.24	20.15	19.28	20.20	19.32	20.24	19.36	20.28	19.41	20.34

Power Bifaciality:80±5%.

TEMPERATURE RATINGS

NOCT (Nominal Operating Cell Temperature)	43°C (±2°C)
Temperature Coefficient of P_{MAX}	- 0.29%/°C
Temperature Coefficient of V_{OC}	- 0.24%/°C
Temperature Coefficient of I_{SC}	0.04%/°C

MAXIMUM RATINGS

Operational Temperature	-40~+85° C
Maximum System Voltage	1500V DC (IEC) 1500V DC (UL)
Max Series Fuse Rating	35A

WARRANTY

12 year Product Workmanship Warranty

30 year Power Warranty

1% first year degradation

0.40% Annual Power Attenuation

(Please refer to product warranty for details)

PACKAGING CONFIGURATION

Modules per box: 33 pieces

Modules per 40' container: 594 pieces

Trinasolar

CAUTION: READ SAFETY AND INSTALLATION INSTRUCTIONS BEFORE USING THE PRODUCT.

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Version number: TSM_EN_2024_A

www.trinasolar.com

Fronius Tauro
Precombined version

Designed to perform.

Product advantages

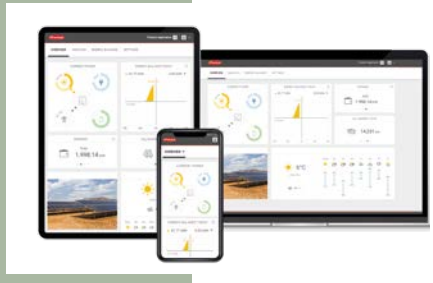
01 Robust and durable
02 Lower costs and efficient servicing
03 Intelligent control and an open system
04 Design flexibility
05 Repairable and sustainable

Maximum flexibility in terms of system design with minimal overall system operating costs: the robust Fronius Tauro inverter makes large-scale PV systems even more cost-effective. Whether under direct sunlight or in extreme heat, its double-walled housing and active cooling enable full power and maximum yields even under the harshest environmental conditions. At the same time, the sturdy project inverter from Austria is quick to install and maintain. **Fronius Tauro. Designed to perform.**

The solution for large-scale PV systems

01

02



03

04

01 Robust and durable

Designed to buck direct sunlight and high temperatures: its double-walled housing and active cooling give the Fronius Tauro a long service life and make it a robust commercial solar inverter that will always deliver top performance.

02 Lower costs and efficient servicing

For minimal overall system operating costs: Fronius Tauro is quick to install and efficient to maintain. When servicing is required, only the affected power stage set needs to be replaced rather than the entire project inverter. This makes for safe operation and fast, cost-efficient servicing.

03 Intelligent control and an open system

Like all Fronius products, Fronius Tauro can be conveniently monitored, controlled and maintained from a smartphone or PC. Fronius Solar.web lets you keep an eye on your system at all times. Its open system architecture means third-party components are easily integrated.

04 Design flexibility

Centralised, decentralised, vertical or horizontal: Fronius Tauro offers you maximum flexibility in the design and installation of large-scale PV systems. The flexible Tauro and the cost-effective Tauro ECO can be combined in any way you choose. Pre-integrated surge protection device and AC daisy chaining reduce the need for additional components and cables.

05 Repairable and sustainable

Fronius Tauro shows that sustainability at every stage of the product cycle pays dividends. The project inverter is designed for durability and was developed and produced in Austria with the fewest possible, replaceable components. This makes the Tauro particularly robust and failure-resistant, and means that only individual parts need to be replaced during on-site servicing, thereby saving time and conserving resources.

Fronius Tauro is available in two versions:

– **Fronius Tauro** | 50 kW | 3 MPP trackers
– **Fronius Tauro ECO** | 50, 99.99 and 100 kW | 1 MPP tracker

Technical data

			Tauro			Tauro ECO					
			50-3-P			50-3-P		99-3-P		100-3-P	
Input data	Number of MPP trackers		3			1		1		1	
	Max. input current ($I_{dc\ max}$)	A	134			87.5		175		175	
	Max. short circuit current ($I_{sc\ max,\ inverter}$)	A	240			178		250		250	
	DC input voltage range ($U_{dc\ min}$ - $U_{dc\ max}$)	V	200 - 1000			580 - 1000		580 - 1000		580 - 1000	
	Feed-in start voltage ($U_{dc\ start}$)	V	200			650		650		650	
	Usable MPP voltage range ($U_{mpp\ min}$ - $U_{mpp\ max}$) [1]	V	400 - 870			580[2] - 930		580[2] - 930		580[2] - 930	
	Max. PV generator power ($P_{dc\ max}$)	kWp	75			75		150		150	
			PV1	PV2	PV3	PV1	PV2	PV1	PV2	PV1	PV2
	Max. input current module array ($I_{dc\ max.\ pv}$)	A	36	36	72	75	75	100	100	100	100
	Max. module array short circuit current ($I_{sc\ pv}$)[3]	A	72	72	125	125	125	125	125	125	125
	Number of DC connections		1	1	1	1	1	1	1	1	1
Output data	AC rated output ($P_{ac,r}$)	W	50,000			50,000		99,990		100,000	
	Max. output power	VA	50,000			50,000		99,990		100,000	
			380VAC	400VAC		380VAC	400VAC	380VAC	400VAC	380VAC	400VAC
	Rated AC output current ($I_{ac,\ r}$)	A	75,8	72,5		75,8	72,5	151,5	144,9	151,5	144,9
	Grid connection ($U_{ac,r}$)	V	3~ (N)PE 400/230; 3~ (N)PE 380/220								
	Frequency (frequency range f_{min} - f_{max})	Hz	50 / 60 (45 - 65)								
	Power factor (cos $\varphi_{ac,r}$)		0 - 1 ind. / cap.								
General data	Dimensions (height x width x depth)	mm	755 × 1109 × 346 (without wall mount)								
	Weight	kg	98			74		103		103	
	Degree of protection		IP 65			IP 65		IP 65		IP 65	
	Protection class		1			1		1		1	
	Night-time consumption	W	< 16			< 16		< 16		< 16	
	Cooling		Active Cooling Technologie and Double-Wall System								
	Installation		Indoor and outdoor[4]								
	Ambient temperature range	°C	-40 to +65 °C[5]								
	Certificates and compliance with standards[6]		AS/NZS 4777.2:2020 | IEC62109-1/-2 | VDE-AR-N 4105:2018 | IEC62116 | EN50549-1:2019 & EN50549-2:2019 | VDE-AR-N 4110:2018 | CEI 0-16:2019 | CEI 0-21:2019								
	Life cycle analysis		For Tauro ECO 100 in accordance with Austrian standards ÖNORM EN ISO 14040 and 14044 (verified by Fraunhofer IZM)								
Connection technology – AC	Cable cross section	mm²	35 - 240			35 - 240		70 - 240		70 - 240	
	AC conductor material		Al and Cu								
	Connection terminals		Cable lug or V clamps								
	Single Core Option (single core cable)		Cable gland: 5 x M40 (10 - 28 mm)								
	Multi Core Option (multi core cable)		Cable gland: 1 x multi core connection Ø 16 - 61.4 mm + 1 x M32								
	AC Daisy Chaining Option (single core cable)		Cable gland: 10 x M32 (10 - 25 mm)								
Connection technology – DC	Cable cross section	mm²	25 - 95								
	DC conductor material		Al and Cu								
	Connection terminals		Cable lug or V clamps | Cable gland: 6 x M40 (10 - 28 mm)								
Efficiency	Max. efficiency	%	98.5			98.5		98.5		98.5	
	European efficiency (ηEU)	%	98.3			98.2		98.2		98.2	
	MPP-adaptation efficiency	%	> 99.9			> 99.9		> 99.9		> 99.9	

[1] *The usable MPP voltage range is identical to the MPP voltage range at rated power*
[2] *At 230 V actual mains voltage; design recommendation (Umpp min): 600V*
[3] *Isc pv = Isc max. ≥ Isc (STC) x 1.25 according to e.g. IEC 60364-7-712, NEC 2020, AS/NZS 5033:2021.*
[4] *Direct sunlight is possible*
[5] *Optional AC-disconnect mounted inside the inverter: from -30 to +65 °C*
[6] *These are planned certificates. For the current certificates, please see www.fronius.com/tauro-cert*

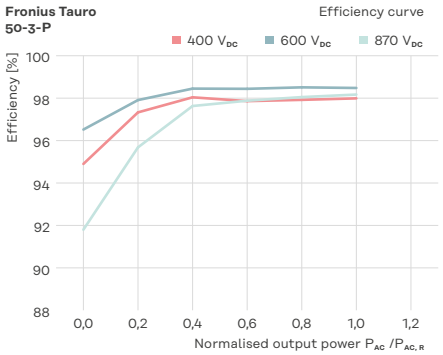
		Tauro	Tauro ECO		
		50-3-P	50-3-P	99-3-P	100-3-P
Protection devices	DC disconnector	integrated			
	RCMU	integrated			
	DC insulation measurement	integrated			
	DC/AC surge protection	Type 1 + 2 integrated [7], Type 2 optional			
Interfaces	Wi-Fi	Fronius Solar.web, Modbus TCP Sunspec, Fronius Solar API (JSON)			
	Ethernet LAN RJ45 [8]	10/100 Mbit; max. 100 m Fronius Solar.web, Modbus TCP Sunspec, Fronius Solar API (JSON)			
	Wired Shutdown (WSD)	Emergency stop			
	2 x RS485	Modbus RTU SunSpec			
	6 digital inputs / 6 digital I/Os	Programmable interface for ripple control receiver, energy management, load control			
	Datalogger and web server [8]	Integrated			

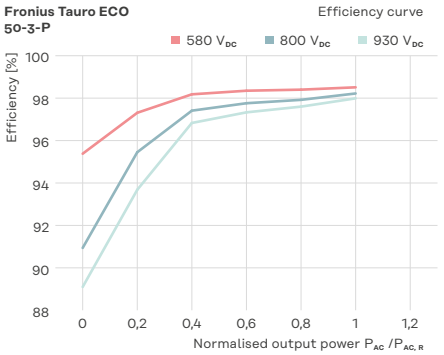
[7] *Typ 1 + 2: I_{imp} kA*
[8] *An Ethernet star-configuration is used for communication with multiple inverters. Each individual inverter communicates independently with the network/Internet via its integrated data logger*

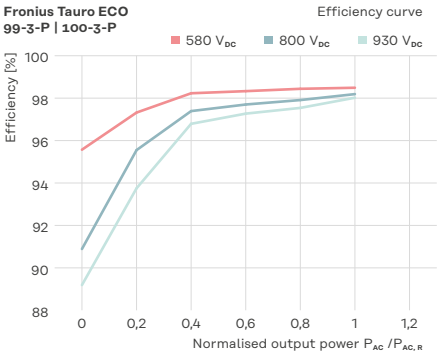
Measurably better

The performance speaks for itself: Fronius Tauro delivers impressive performance, with constant efficiency and maximum output at temperatures up to 50 °C.

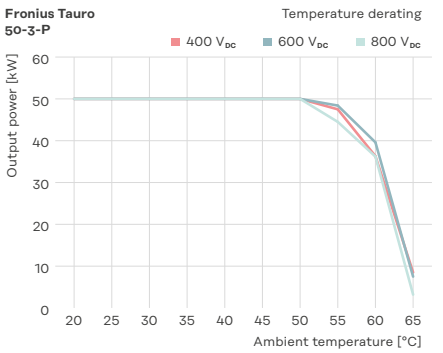
Efficiency

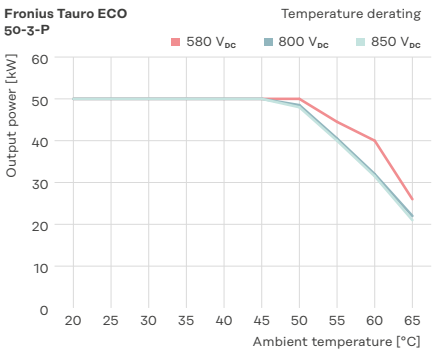


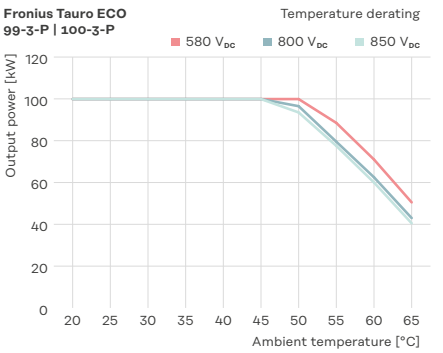




Power derating







For more information about the product, visit: www.fronius.com/tauro

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