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REVISION HISTORY

REV	DESCRIPTION	DATE	APPROVED
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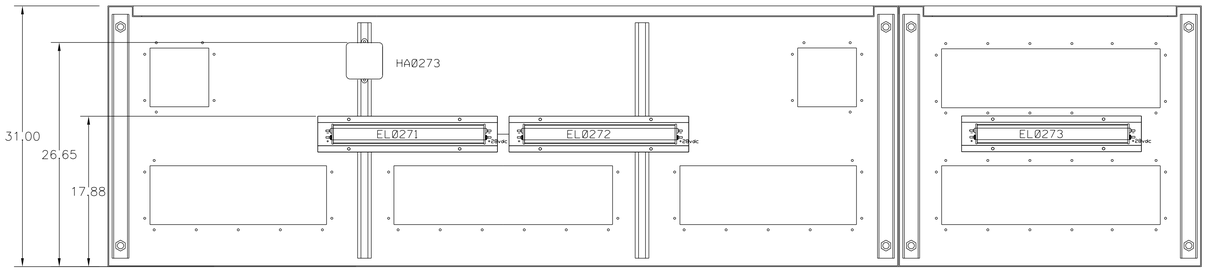
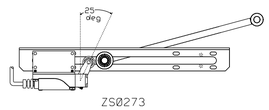
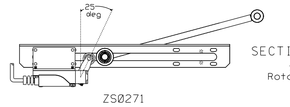
B.2		03/16/26	



SECTION A–A





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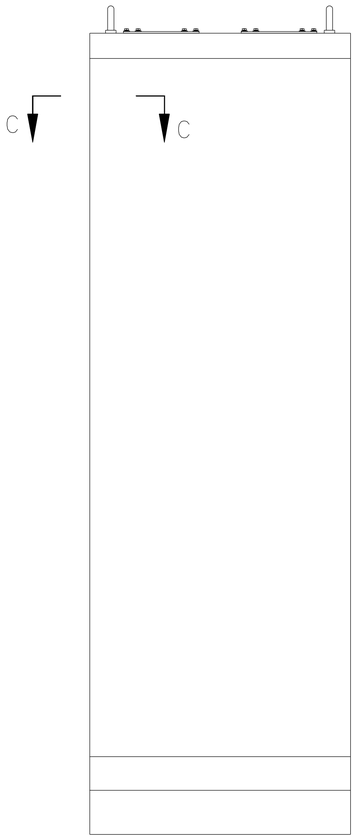
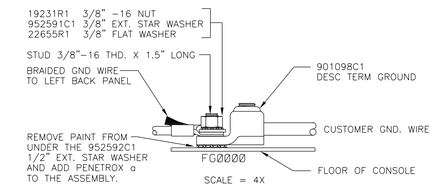
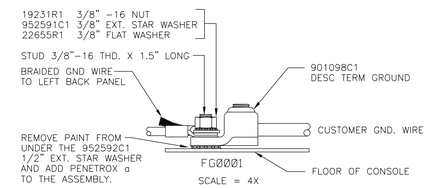
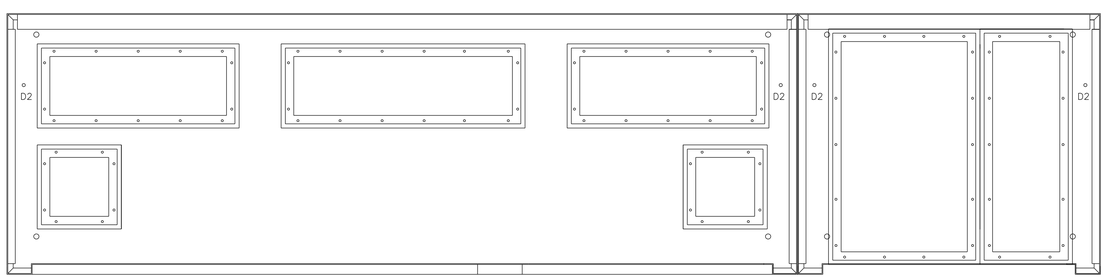




TYPICAL GROUND STUD ASSEMBLY



TYPICAL GROUND STUD ASSEMBLY



SECTION B–B

4-BAY CONSOLE: 1006914-78401

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1	PD- 4M511	D	66195	Solar Turbines A Caterpillar Company	P.O. BOX 85376 San Diego, California 92186-5376
		MFG DES ENGINEER	DATE	DRAWING TITLE	
		DESIGN ENGINEER BARRAZA, PAUL	DATE 04/29/2025	ASSEMBLY CONSOLE	

PROJECT NAME	ENI - KUTEI NORTH HUB - FPSO	PANEL NO. 1052206	
MODEL CTLM02 TURBOTRONICS 4		DWG NO. 4M511-149419	SHT REV B.1
LOC T:\PROJECT\LAYOUT\REV\		DWG REV B.2	SHEET 1 OF 26

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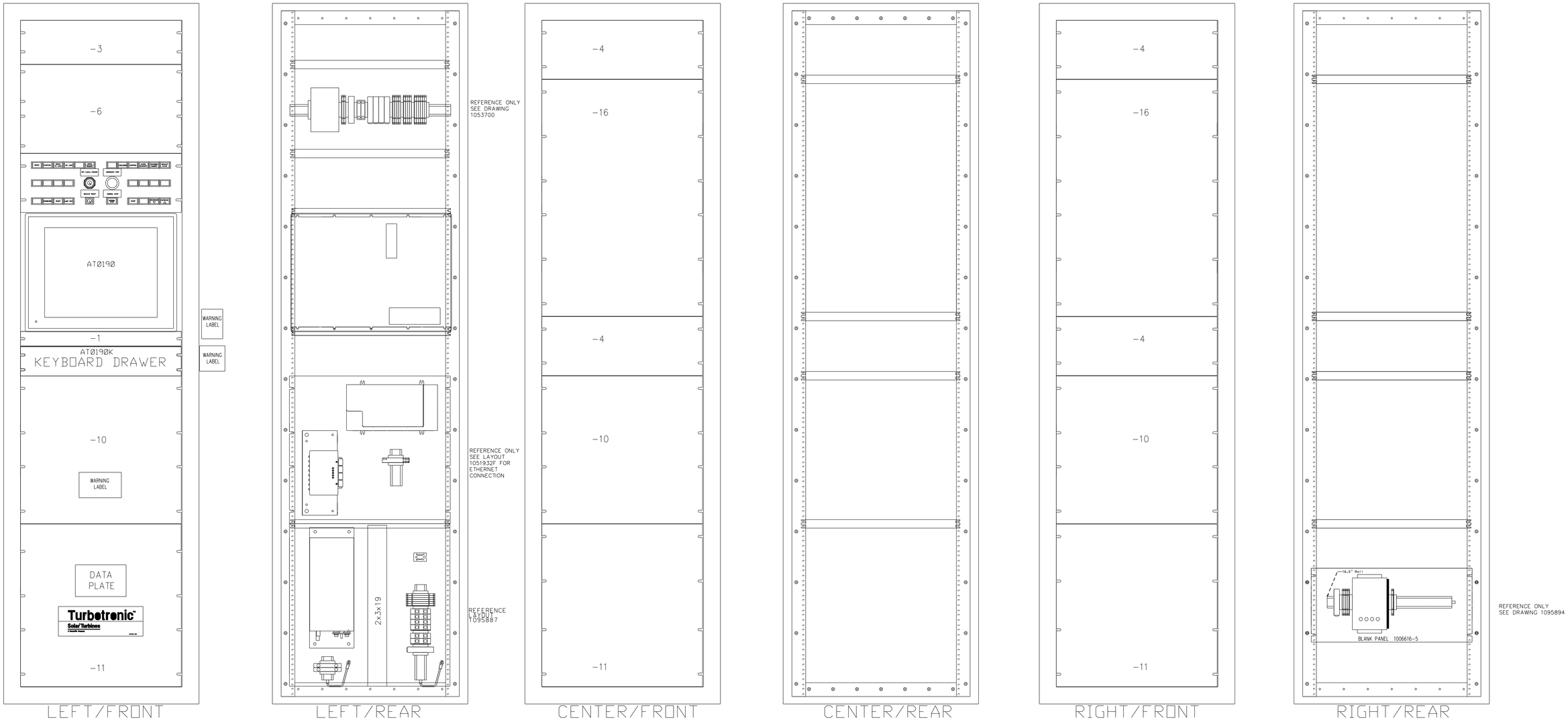
REVISION HISTORY

REV	DESCRIPTION	DATE	APPROVED
751	T:\149332\Rev270\1051932-270.dwg	5/3/2010	M. Nguyen
B.2		03/11/26	

DOOR PANELS



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		MFG DES ENGINEER	DATE	DRAWING TITLE: CONSOLE DOOR PANELS
		DESIGN ENGINEER: BARRAZA, PAUL	DATE: 04/29/2025	
PROJECT NAME: ENI - KUTEI NORTH HUB - FPSO			PANEL NO. 1051932	
MODEL: CTLM02 TURBOTRONICS 4			DWG NO. 4M511-149419	SHT REV B.1
LOC: T:\PROJECT\LAYOUT\REV\			DWG REV B.2	SHEET 2 OF 26

PANEL:1006616-5

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REVISION HISTORY

REV	DESCRIPTION	DATE	APPROVED
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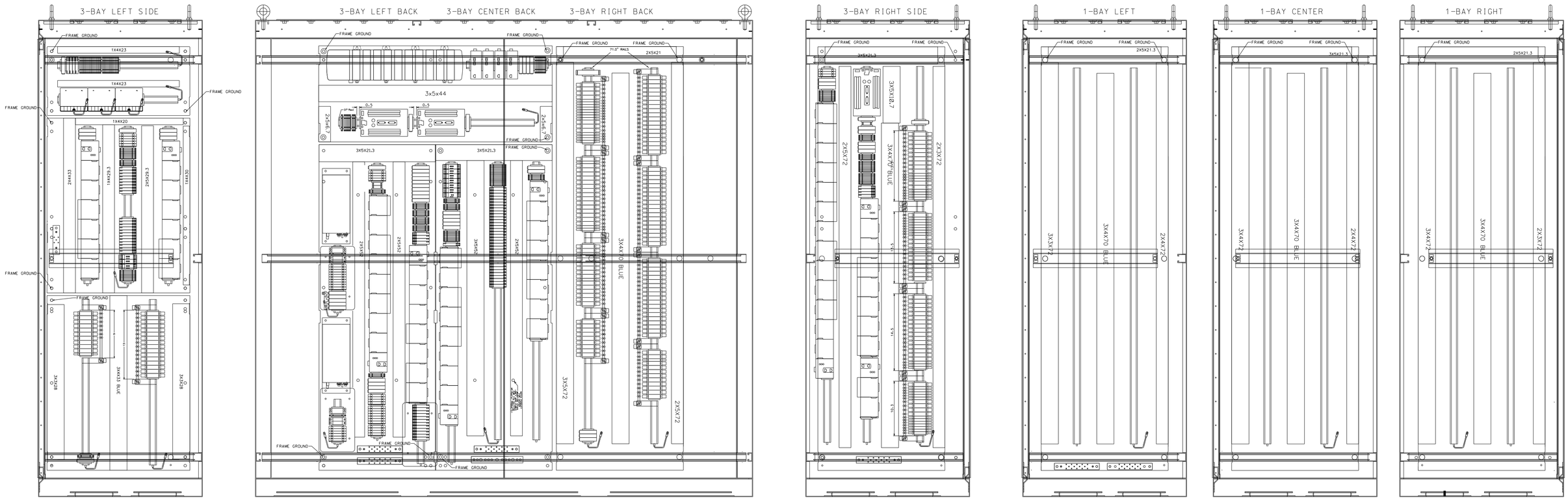
B.2		12/08/25	



CONTROL CONSOLE: 1006914-78401

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DATA CONTROL LEVEL	RELEASE STAMP	SIZE	CAGE NO.		
1	PD- 4M511	D	66195	Solar Turbines A Caterpillar Company	P.O. BOX 85376 San Diego, California 92186-5376
		MFG DES ENGINEER	DATE	DRAWING TITLE	
		DESIGN ENGINEER BARRAZA, PAUL	DATE 04/29/2025	CONSOLE PANELS	

PROJECT NAME	ENI - KUTEI NORTH HUB - FPSO	PANEL NO. 1052215	
MODEL CTLM02 TURBOTRONICS 4		DWG NO. 4M511-149419	SHT REV A
LOC T:\PROJECT\LAYOUT\REV\		DWG REV B.2	SHEET 3 OF 26

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REVISION HISTORY

REV	DESCRIPTION	DATE	APPROVED
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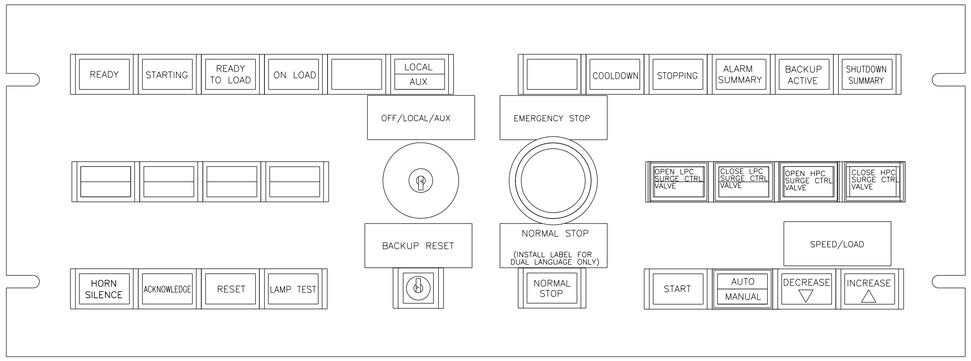
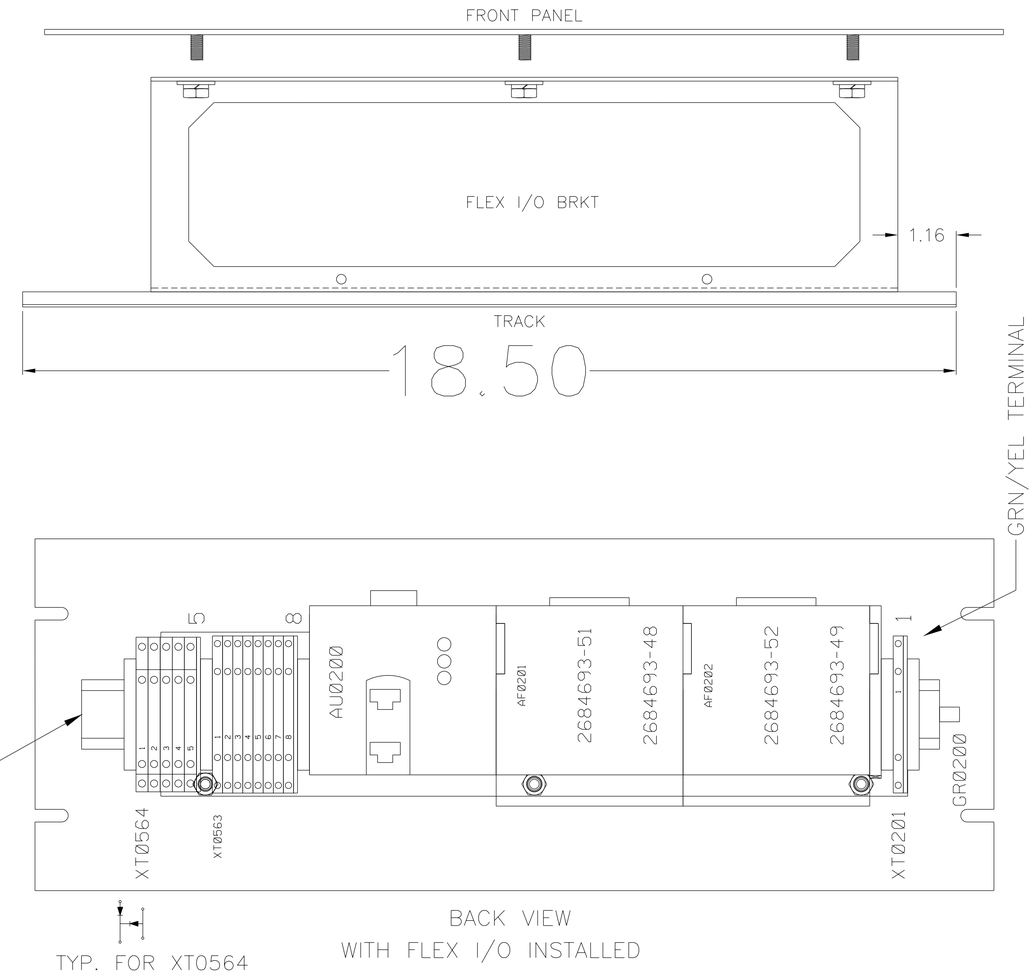
B.2		03/22/26	



FRONT VIEW



BACK VIEW
WITH FLEX I/O REMOVED

BACK VIEW
WITH FLEX I/O INSTALLED

PANEL: 1507708-501
CONSOLE: 1006914-78401

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DATA CONTROL LEVEL	RELEASE STAMP	SIZE	CAGE NO.		
1	PD- 4M511	D	66195	Solar Turbines A Caterpillar Company	P.O. BOX 85376 San Diego, California 92186-5376
		MFG DES ENGINEER	DATE	DRAWING TITLE	
		DESIGN ENGINEER BARRAZA, PAUL	DATE 04/29/2025	ASSEMBLY, CONTROL PANEL	

PROJECT NAME	ENI - KUTEI NORTH HUB - FPSO	PANEL NO. 1337708	
MODEL CTLM02 TURBOTRONICS 4		DWG NO. 4M511-149419	SHT REV B.1
LOC T:\PROJECT\LAYOUT\REV\		DWG REV B.2	SHEET 4 OF 26

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REVISION HISTORY

REV	DESCRIPTION	DATE	APPROVED
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B.2		03/16/26	

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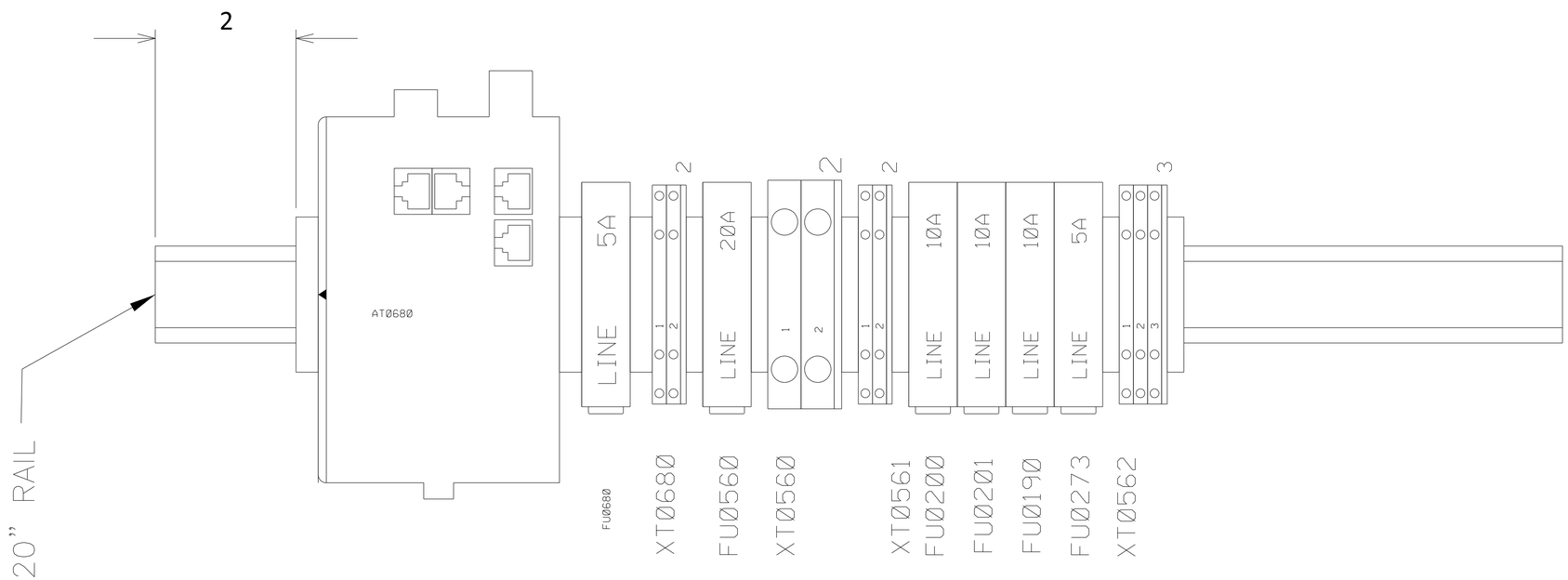

CONTROL CONSOLE: 1006914-78401

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DATA CONTROL LEVEL	RELEASE STAMP	SIZE	CAGE NO.	Solar Turbines A Caterpillar Company	P.O. BOX 85376 San Diego, California 92186-5376
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		MFG DES ENGINEER	DATE	DRAWING TITLE	
		DESIGN ENGINEER	DATE	PWR DISTRIBUTION RAIL LEFT DOOR	
		BARRAZA, PAUL	04/29/2025		

PROJECT NAME	ENI - KUTEI NORTH HUB - FPSO	PANEL NO. 1053700	
MODEL	CTLM02 TURBOTRONICS 4	DWG NO. 4M511-149419	SHT REV B.1
LOC	T:\PROJECT\LAYOUT\REV\	DWG REV B.2	SHEET 5 OF 26

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REVISION HISTORY

REV	DESCRIPTION	DATE	APPROVED
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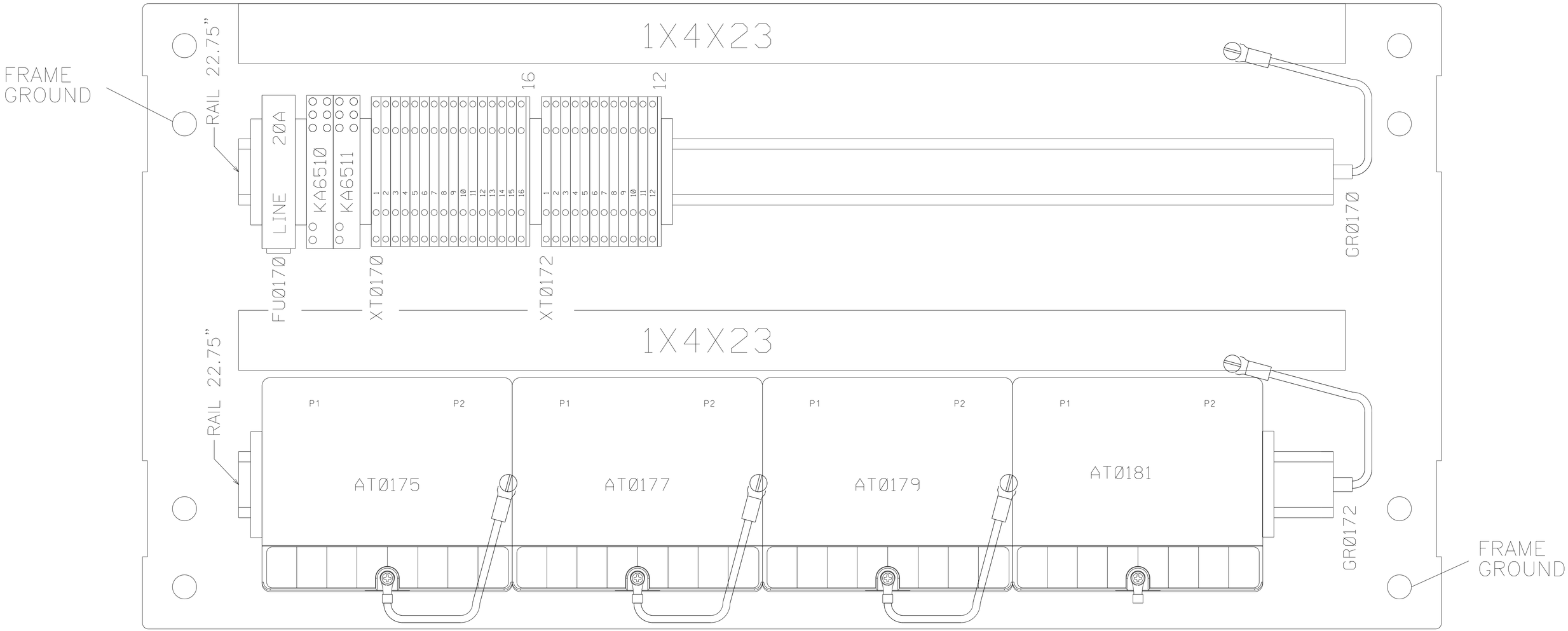
B.2		03/16/26	



PANEL:1058112-1401
CONSOLE:1006914-78401

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DATA CONTROL LEVEL	RELEASE STAMP	SIZE	CAGE NO.		
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		MFG DES ENGINEER	DATE	DRAWING TITLE	
		DESIGN ENGINEER BARRAZA, PAUL	DATE 04/29/2025	CONTROL CONSOLE FIRE SYSTEM PANEL	

PROJECT NAME	ENI - KUTEI NORTH HUB - FPSO
MODEL	CTLM02 TURBOTRONICS 4
LOC	T:\PROJECT\LAYOUT\REV\
PANEL NO.	1055089
DWG NO.	4M511-149419
SHT REV	B.1
DWG REV	B.2
SHEET	6 OF 26

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REVISION HISTORY

REV	DESCRIPTION	DATE	APPROVED
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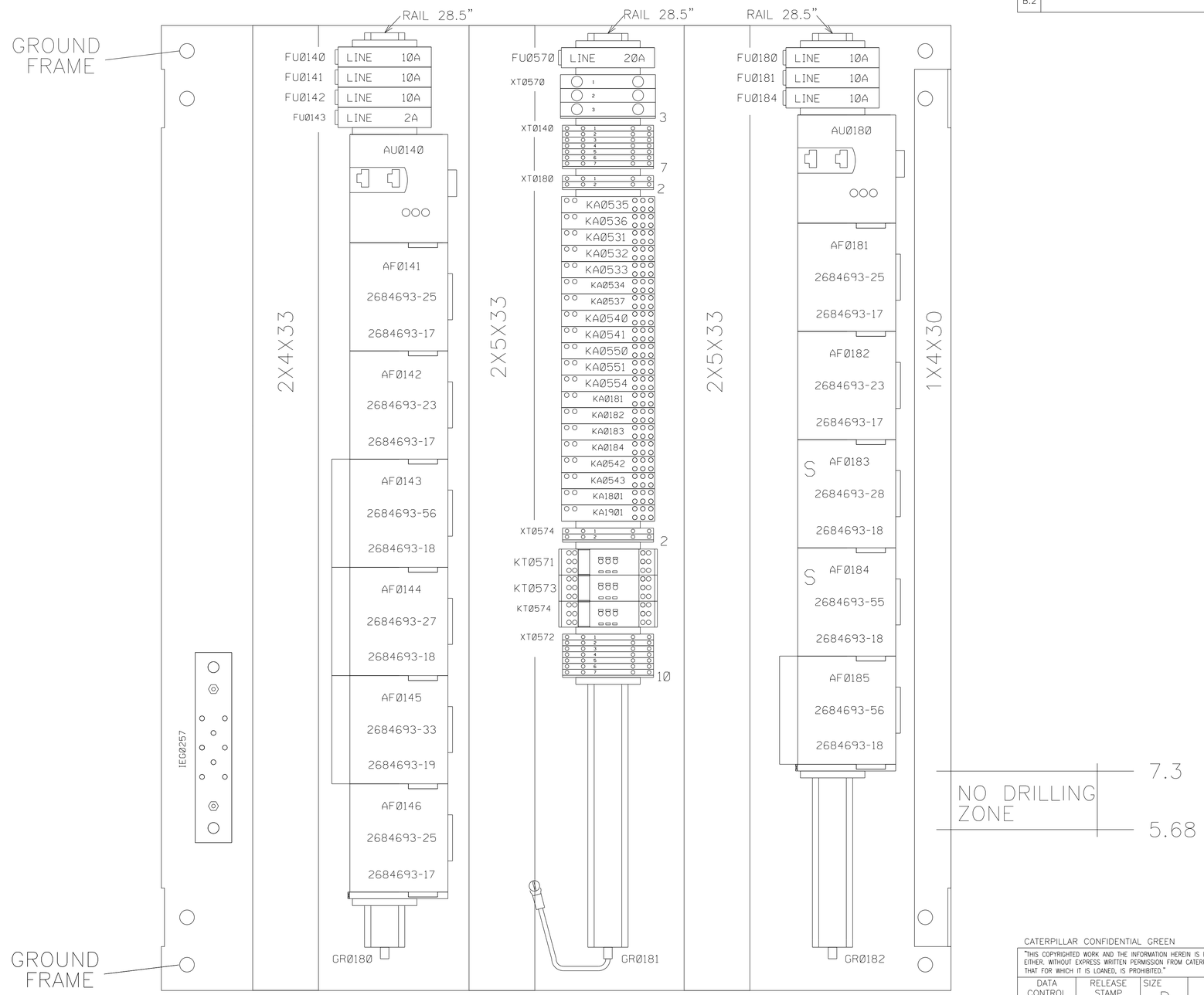
B.2		04/06/26	



PANEL:1058112-503
CONSOLE:1006914-78401

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DATA CONTROL LEVEL	RELEASE STAMP	SIZE	CAGE NO.	Solar Turbines A Caterpillar Company	P.O. BOX 85376 San Diego, California 92186-5376
1	PD- 4M511	D	66195		
		MFG DES ENGINEER	DATE	DRAWING TITLE	
		DESIGN ENGINEER: BARRAZA, PAUL	DATE: 04/29/2025	CONTROL CONSOLE BOP PANEL	

PROJECT NAME: ENI - KUTEI NORTH HUB - FPSO
PANEL NO. 1052200
MODEL: CTLM02 TURBOTRONICS 4
DWG NO. 4M511-149419
SHT REV B.2
LOC: T:\PROJECT\LAYOUT\REV\
DWG REV B.2
SHEET 7 OF 26

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REV	DESCRIPTION	DATE	APPROVED
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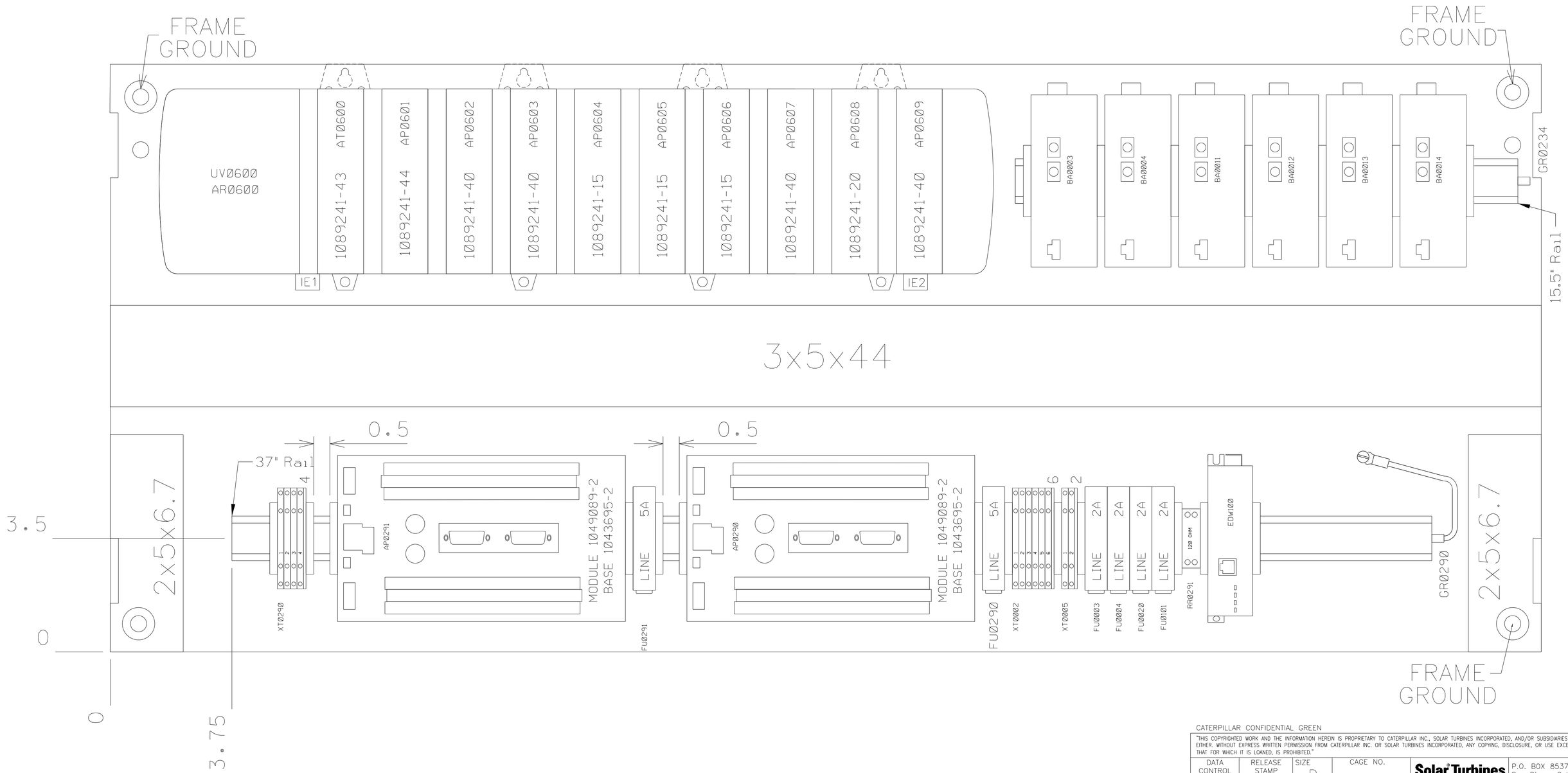
B.2		04/06/26	



PANEL:1634920-150
CONSOLE:1006914-78401

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		MFG DES ENGINEER	DATE	DRAWING TITLE: CONTROL CONSOLE PLC PANEL
		DESIGN ENGINEER: BARRAZA, PAUL	DATE: 04/29/2025	
PROJECT NAME: ENI - KUTEI NORTH HUB - FPSO			PANEL NO. 1095899	
MODEL: CTLM02 TURBOTRONICS 4			DWG NO. 4M511-149419	SHT REV B.2
LOC: T:\PROJECT\LAYOUT\REV\			DWG REV B.2	SHEET 8 OF 26

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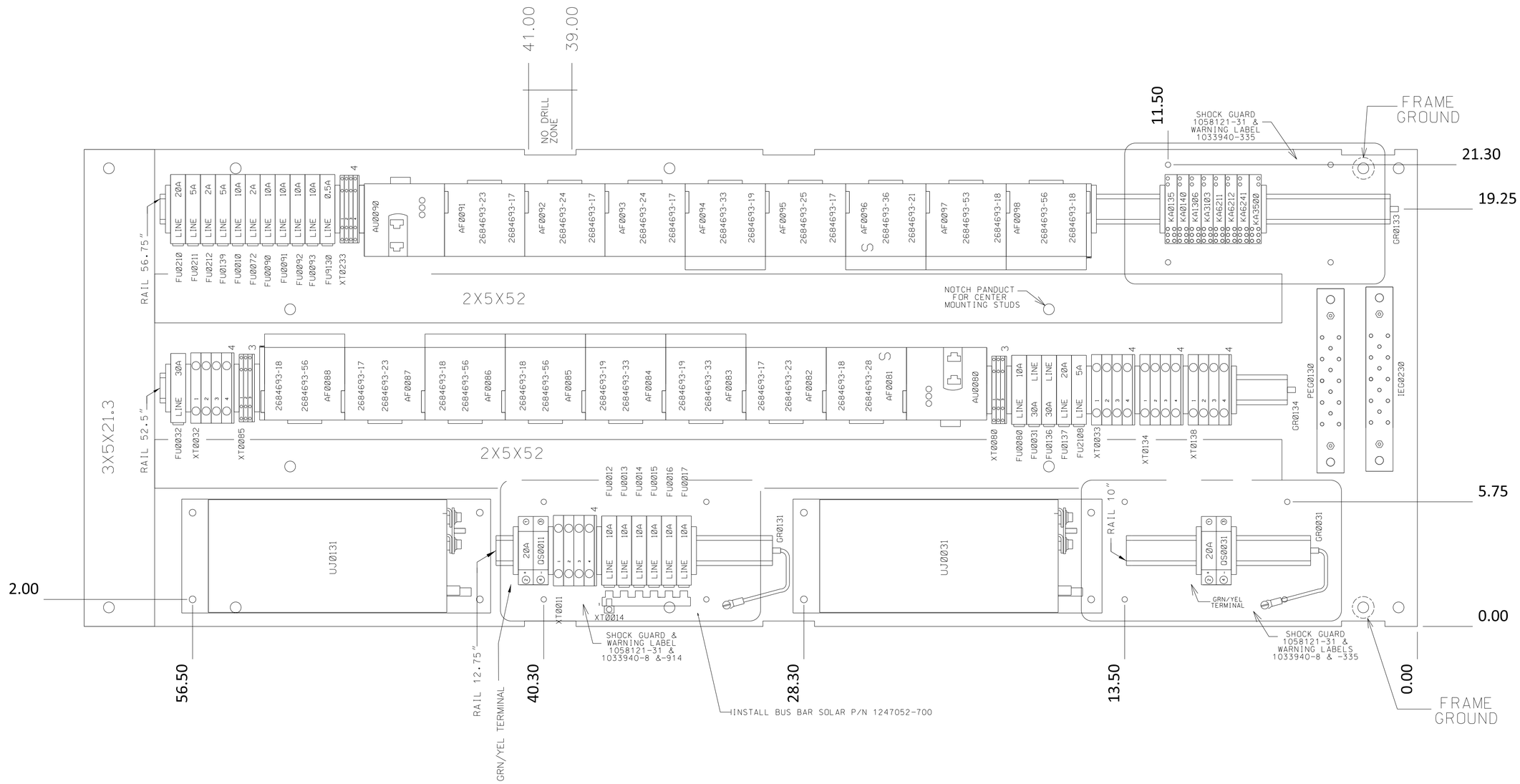
REVISION HISTORY

REV	DESCRIPTION	DATE	APPROVED
751	T:\149332\Rev270\1052197-270.dwg	5/3/2010	M. Nguyen
B.2		04/06/26	



PANEL: 1053331-1100
CONSOLE: 1006914-78401

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1	PD- 4M511	D	66195		
		MFG DES ENGINEER	DATE	DRAWING TITLE	
		DESIGN ENGINEER: BARRAZA, PAUL	DATE: 04/29/2025	CONTROL CONSOLE TURBINE PANEL A	

PROJECT NAME	ENI - KUTEI NORTH HUB - FPSO
PANEL NO.	1052197
MODEL	CTLM02 TURBOTRONICS 4
DWG NO.	4M511-149419
SHT REV	B.2
LOC	T:\PROJECT\LAYOUT\REV\
DWG REV	B.2
SHEET	9 OF 26

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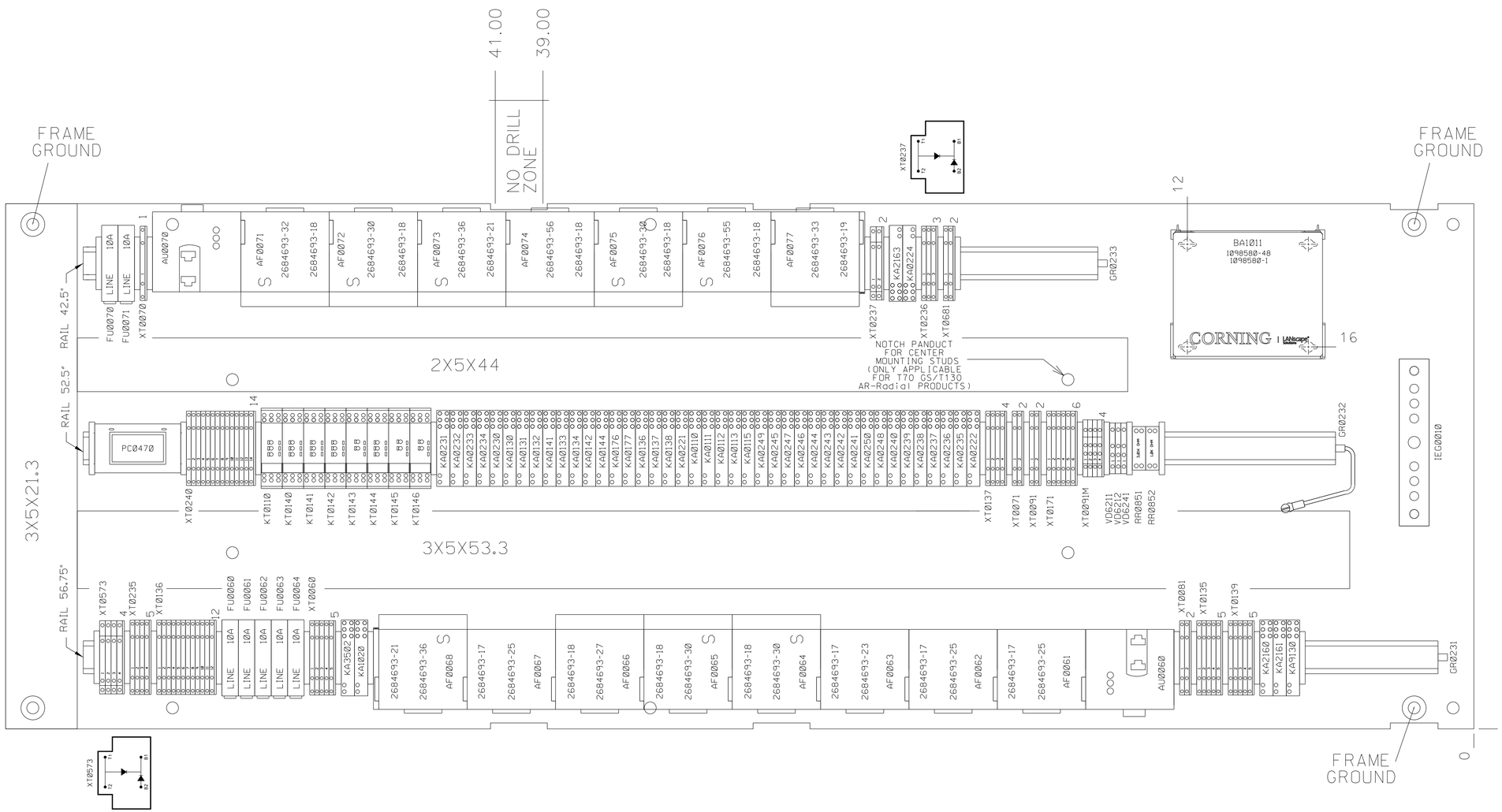
REVISION HISTORY

REV	DESCRIPTION	DATE	APPROVED
751	T:\149332\Rev270\1052198-270.dwg	5/3/2010	M. Nguyen
B.2		04/06/26	



PANEL: 1053331-1100
CONSOLE: 1006914-78401

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DATA CONTROL LEVEL	RELEASE STAMP	SIZE	CAGE NO.		
1	PD- 4M511	D	66195	Solar Turbines A Caterpillar Company	P.O. BOX 85376 San Diego, California 92186-5376
		MFG DES ENGINEER	DATE	DRAWING TITLE	
		DESIGN ENGINEER: BARRAZA, PAUL	DATE: 04/29/2025	CONTROL CONSOLE TURBINE PANEL B	

PROJECT NAME	ENI - KUTEI NORTH HUB - FPSO
PANEL NO.	1052198
MODEL	CTLM02 TURBOTRONICS 4
DWG NO.	4M511-149419
SHT REV	B.2
LOC	T:\PROJECT\LAYOUT\REV\
DWG REV	B.2
SHEET	10 OF 26

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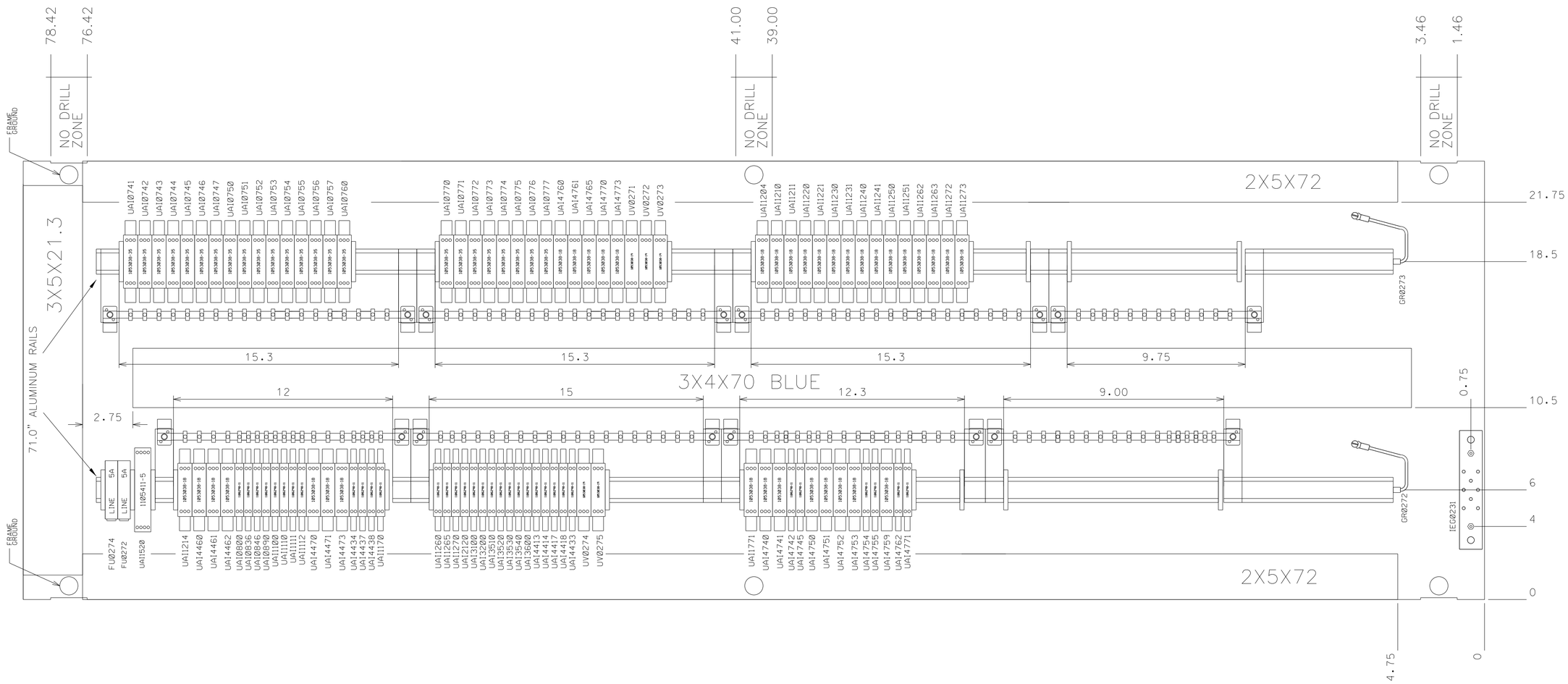
REVISION HISTORY

REV	DESCRIPTION	DATE	APPROVED
751	T:\149332\Rev270\1052201-270.dwg	5/3/2010	M. Nguyen
B.2		03/23/26	



PANEL:231490-4
CONSOLE:1006914-78401

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DATA CONTROL LEVEL	RELEASE STAMP	SIZE	CAGE NO.		
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		MFG DES ENGINEER	DATE	DRAWING TITLE	
		DESIGN ENGINEER	DATE	CONTROL CONSOLE ISOLATOR PANEL	
		BARRAZA, PAUL	04/29/2025		

PROJECT NAME	ENI - KUTEI NORTH HUB - FPSO	PANEL NO. 1052201	
MODEL	CTLM02 TURBOTRONICS 4	DWG NO. 4M511-149419	SHT REV B.1
LOC	T:\PROJECT\LAYOUT\REV\	DWG REV B.2	SHEET 11 OF 26

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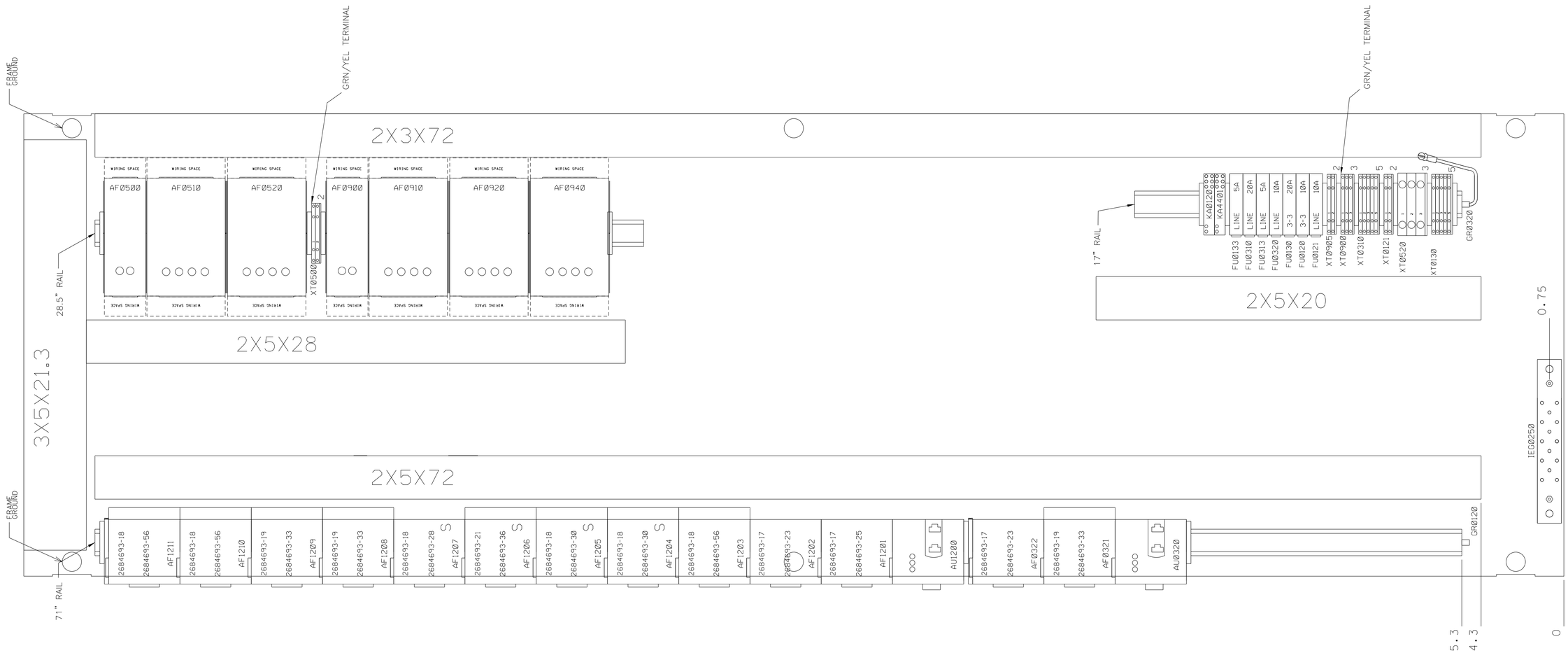
REVISION HISTORY

REV	DESCRIPTION	DATE	APPROVED
B.2		03/22/26	



PANEL:231490-4
CONSOLE:1006914-78401

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DATA CONTROL LEVEL	RELEASE STAMP	SIZE	CAGE NO.		
1	PD- 4M511	D	66195	Solar Turbines A Caterpillar Company	P.O. BOX 85376 San Diego, California 92186-5376
		MFG DES ENGINEER	DATE	DRAWING TITLE	
		DESIGN ENGINEER BARRAZA, PAUL	DATE 04/29/2025	CONTROL CONSOLE COMPRESSOR PANEL	

PROJECT NAME	ENI - KUTEI NORTH HUB - FPSO
MODEL	CTLM02 TURBOTRONICS 4
LOC	T:\PROJECT\LAYOUT\REV\
PANEL NO.	
DWG NO.	4M511-149419
SHT REV	B.1
DWG REV	B.2
SHEET	12 OF 26

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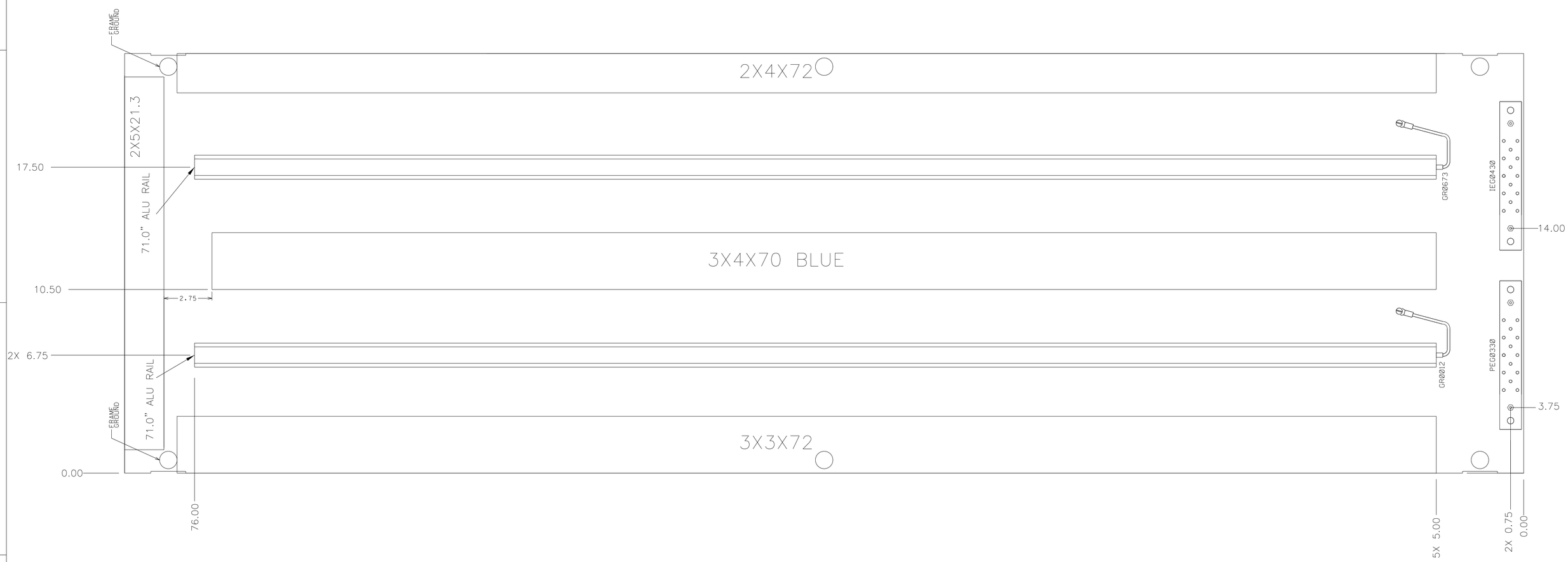
REVISION HISTORY

REV	DESCRIPTION	DATE	APPROVED
B.2		03/19/26	



PANEL:231490-4
CONSOLE:1006914-78401

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DATA CONTROL LEVEL	RELEASE STAMP	SIZE	CAGE NO.		
1	PD- 4M511	D	66195	Solar Turbines A Caterpillar Company	P.O. BOX 85376 San Diego, California 92186-5376
		MFG DES ENGINEER	DATE	DRAWING TITLE	
		DESIGN ENGINEER: BARRAZA, PAUL	DATE: 04/29/2025	CONTROL CONSOLE BLANK #1	

PROJECT NAME	ENI - KUTEI NORTH HUB - FPSO	PANEL NO.	
MODEL	CTLM02 TURBOTRONICS 4	DWG NO. 4M511-149419	SHT REV B.1
LOC	T:\PROJECT\LAYOUT\REV\	DWG REV B.2	SHEET 13 OF 26

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REVISION HISTORY

REV	DESCRIPTION	DATE	APPROVED
B.2		03/19/26	

PANEL:231490-4
CONSOLE:1006914-78401

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DATA CONTROL LEVEL: 1	RELEASE STAMP: PD- 4M511	SIZE: D	CAGE NO.: 66195	Solar Turbines, A Caterpillar Company	P.O. BOX 85376, San Diego, California 92186-5376
		MFG DES ENGINEER	DATE	DRAWING TITLE: CONTROL CONSOLE BLANK #2	
		DESIGN ENGINEER: BARRAZA, PAUL	DATE: 04/29/2025		
PROJECT NAME: ENI - KUTEI NORTH HUB - FPSO				PANEL NO.	
MODEL: CTLM02 TURBOTRONICS 4				DWG NO.: 4M511-149419	SHT REV B.1
LOC: T:\PROJECT\LAYOUT\REV\				DWG REV B.2	SHEET 14 OF 26

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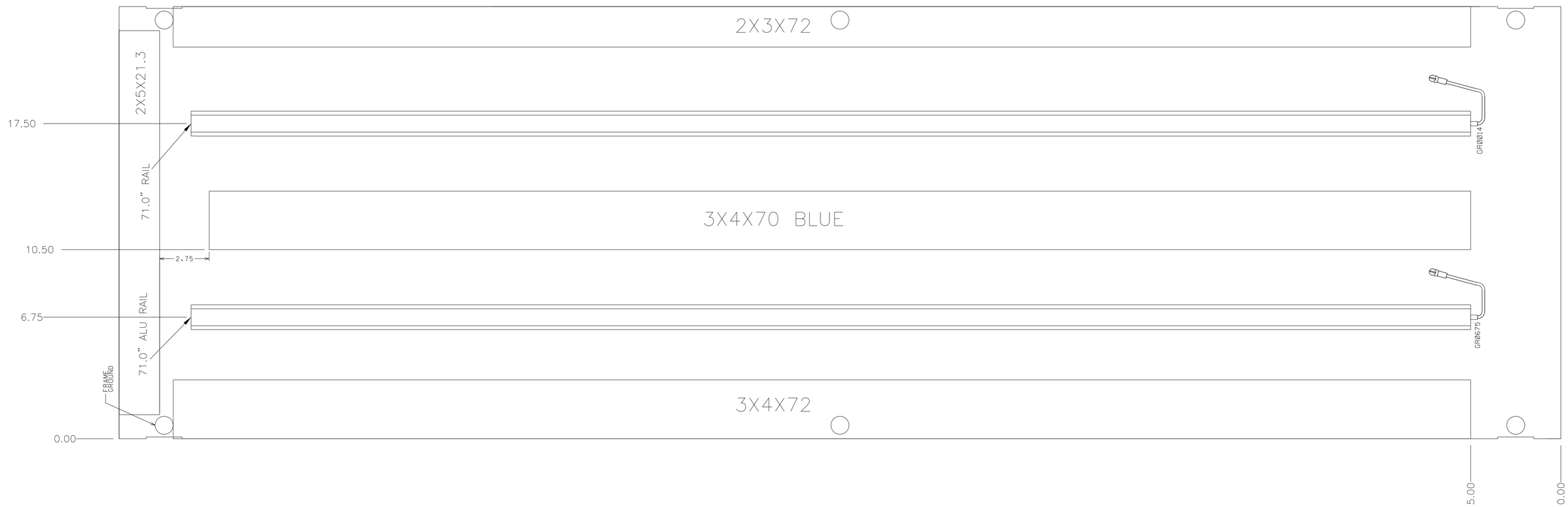
REVISION HISTORY

REV	DESCRIPTION	DATE	APPROVED
B.2		03/19/26	



PANEL:231490-4
CONSOLE:1006914-78401

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DATA CONTROL LEVEL	RELEASE STAMP	SIZE	CAGE NO.		
1	PD- 4M511	D	66195	Solar Turbines A Caterpillar Company	P.O. BOX 85376 San Diego, California 92186-5376
		MFG DES ENGINEER	DATE	DRAWING TITLE	
		DESIGN ENGINEER BARRAZA, PAUL	DATE 04/29/2025	CONTROL CONSOLE BLANK #3	

PROJECT NAME	ENI - KUTEI NORTH HUB - FPSO	PANEL NO.	
MODEL	CTLM02 TURBOTRONICS 4	DWG NO. 4M511-149419	SHT REV B.1
LOC	T:\PROJECT\LAYOUT\REV\	DWG REV B.2	SHEET 15 OF 26

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REVISION HISTORY

REV	DESCRIPTION	DATE	APPROVED
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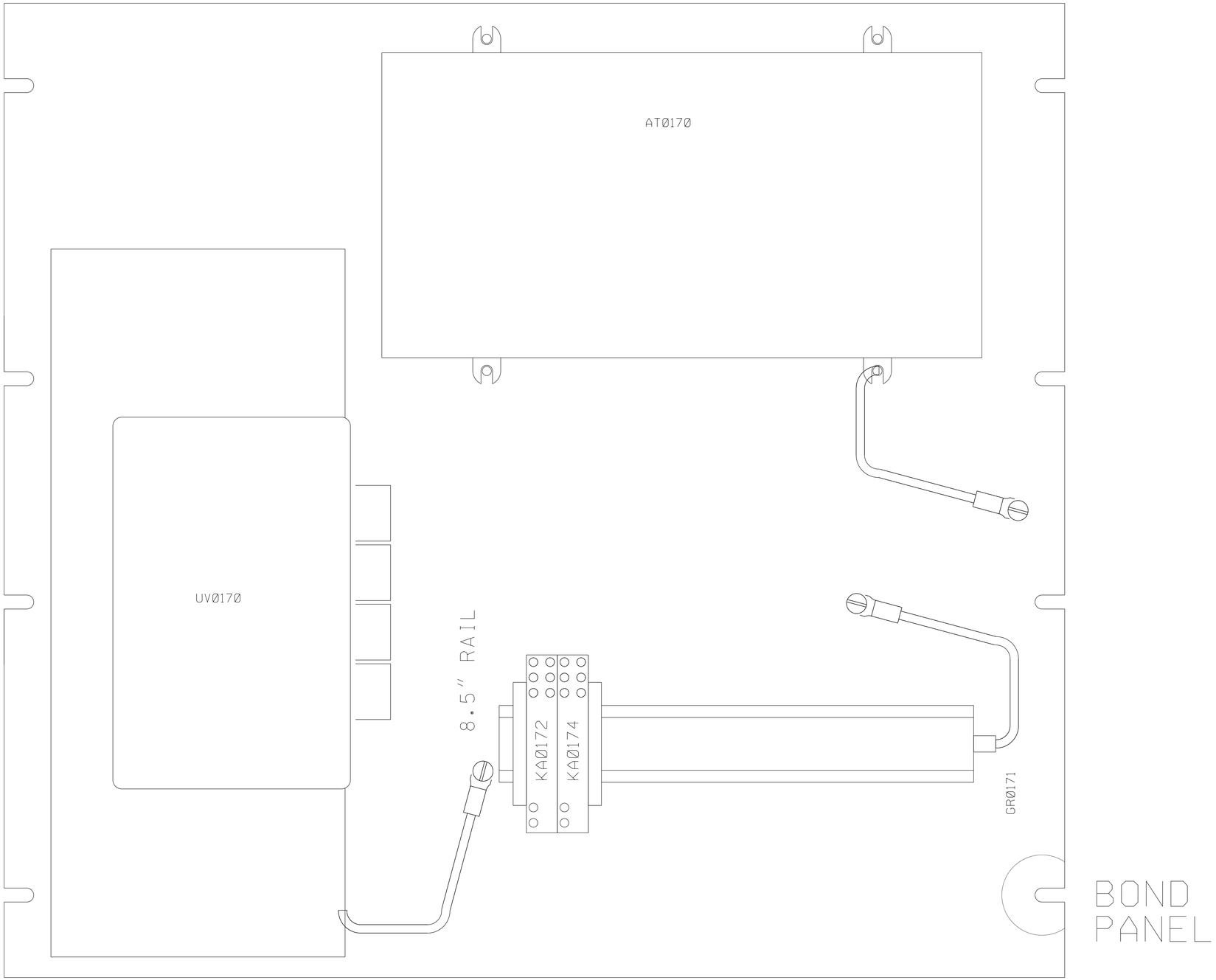
B.2		03/19/26	



PANEL: 1058134-4
CONSOLE: 1006914-78401

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DATA CONTROL LEVEL	RELEASE STAMP	SIZE	CAGE NO.		
1	PD- 4M511	D	66195	Solar Turbines A Caterpillar Company	P.O. BOX 85376 San Diego, California 92186-5376
		MFG DES ENGINEER	DATE	DRAWING TITLE	
		DESIGN ENGINEER BARRAZA, PAUL	DATE 04/29/2025	FIRE SYSTEM CONTROLLER PANEL	

PROJECT NAME	ENI - KUTEI NORTH HUB - FPSO	PANEL NO. 1051932F	
MODEL	CTLM02 TURBOTRONICS 4	DWG NO. 4M511-149419	SHT REV B.1
LOC	T:\PROJECT\LAYOUT\REV\	DWG REV B.2	SHEET 16 OF 26

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REVISION HISTORY

REV	DESCRIPTION	DATE	APPROVED
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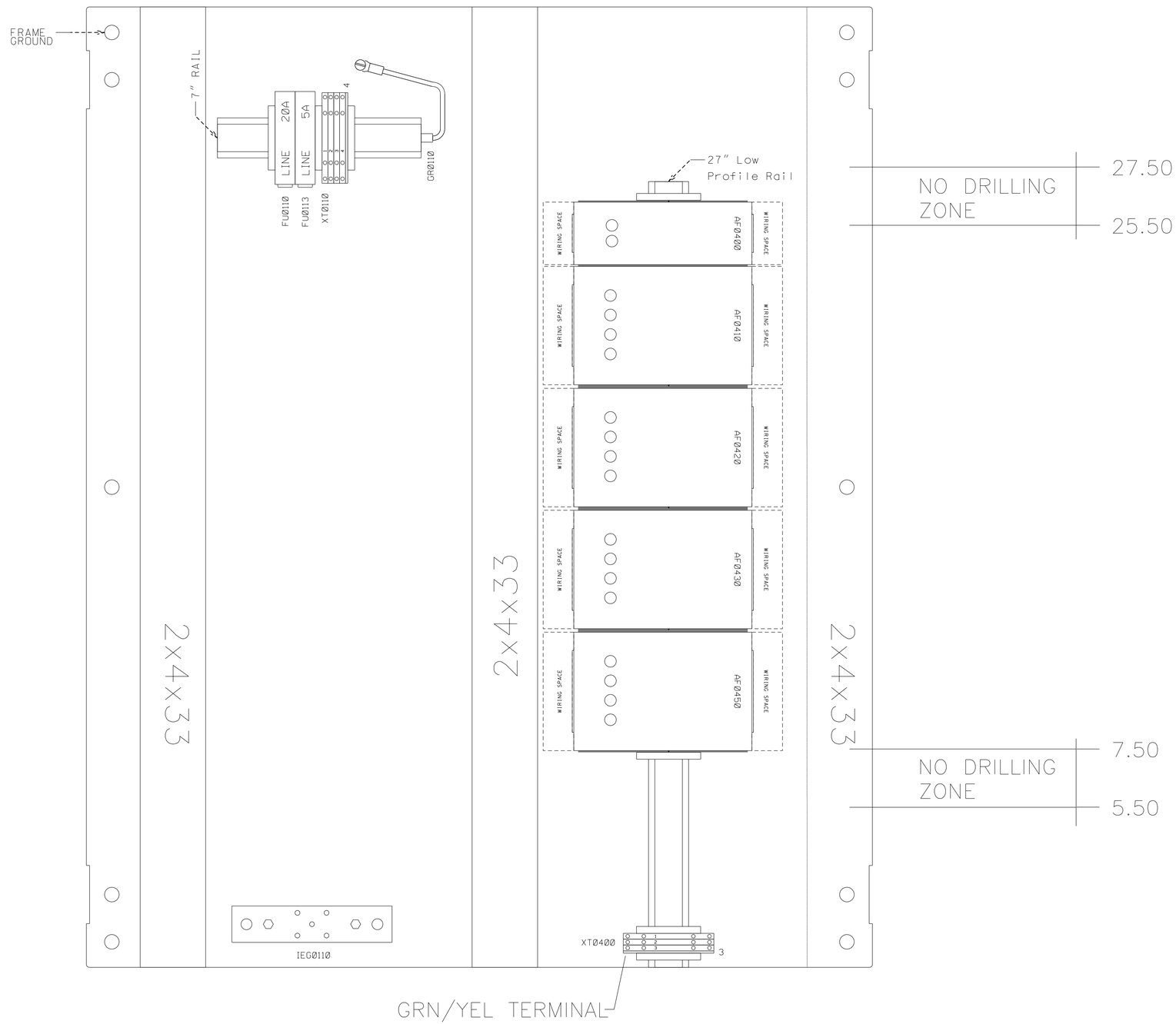
B.2		03/22/26	



PANEL:1058112-609
CONSOLE: 1006941-78401

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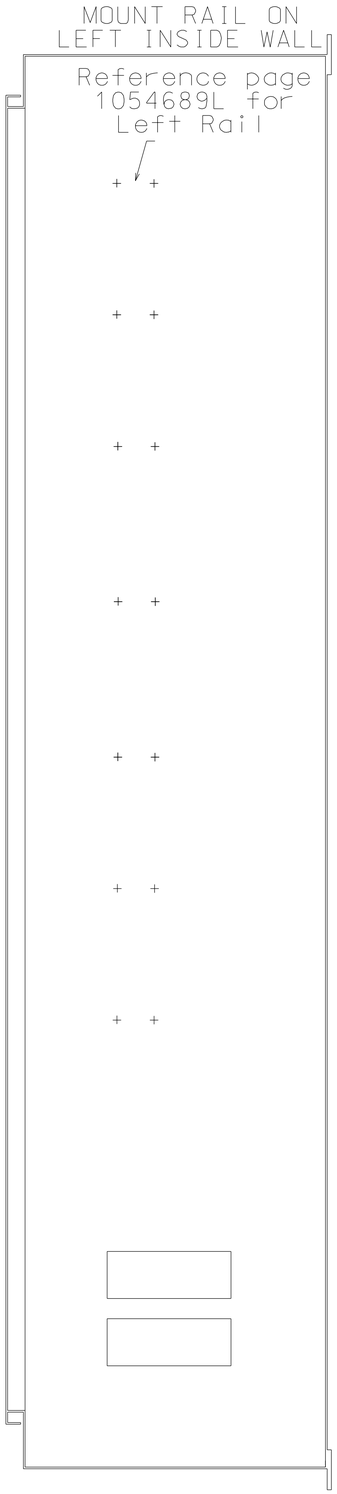
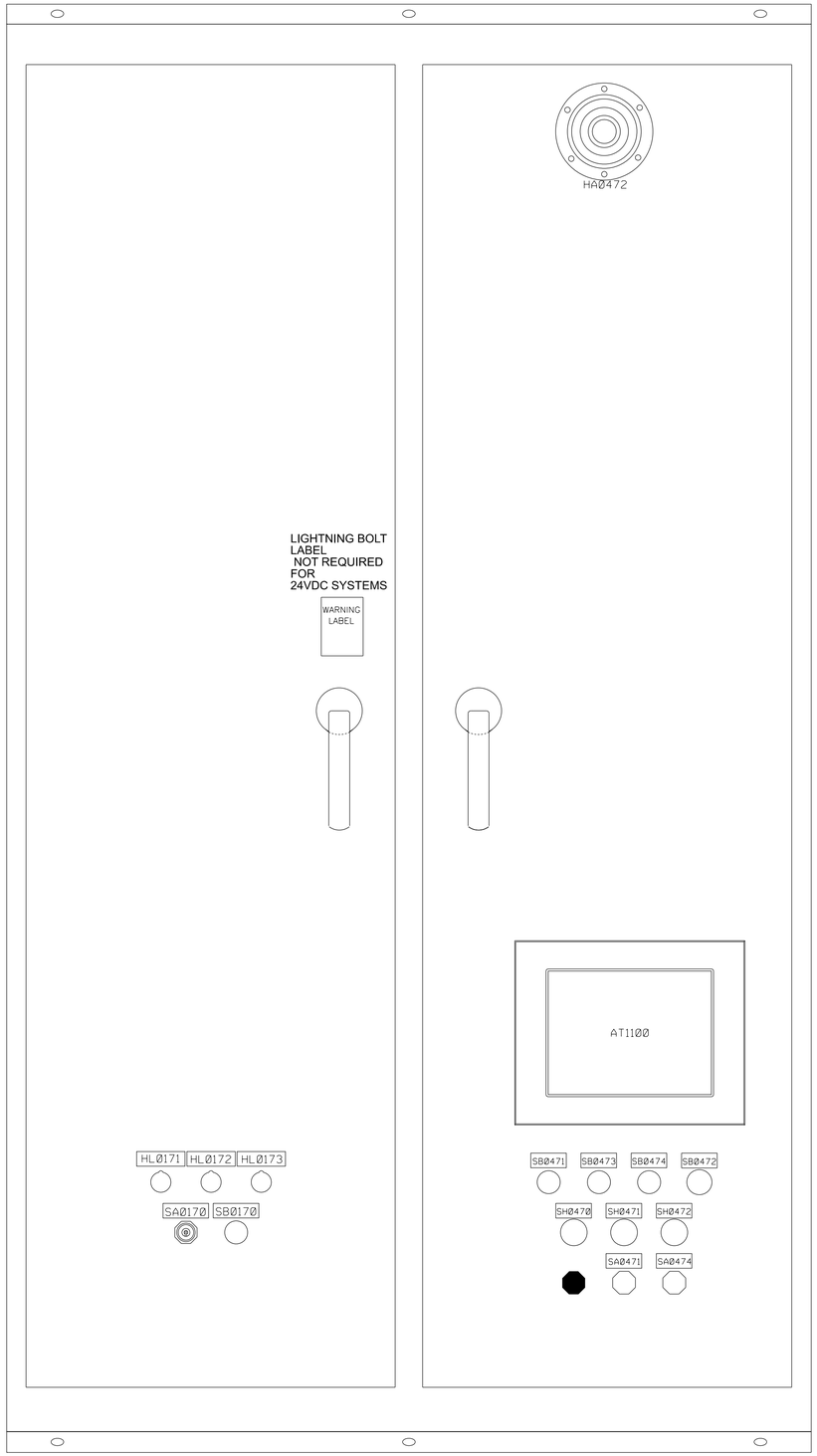
DATA CONTROL LEVEL	RELEASE STAMP	SIZE	CAGE NO.		
1	PD- 4M511	D	66195	Solar Turbines A Caterpillar Company	P.O. BOX 85376 San Diego, California 92186-5376
		MFG DES ENGINEER	DATE	DRAWING TITLE	
		DESIGN ENGINEER: BARRAZA, PAUL	DATE: 04/29/2025	TURBINE VIBRATION PANEL	

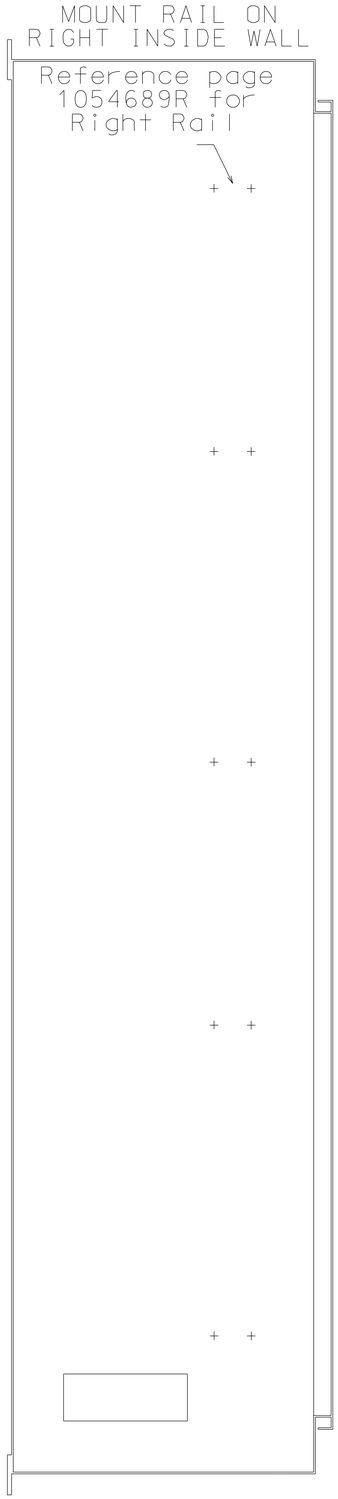
PROJECT NAME	ENI - KUTEI NORTH HUB - FPSO	PANEL NO. 1052199	
MODEL	CTLM02 TURBOTRONICS 4	DWG NO. 4M511-149419	SHT REV B.1
LOC	T:\PROJECT\LAYOUT\REV\	DWG REV B.2	SHEET 17 OF 26



LEFT INTERIOR VIEW



FRONT VIEW



RIGHT INTERIOR VIEW

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REVISION HISTORY

REV	DESCRIPTION	DATE	APPROVED
751	T:\149332\Rev270\1054689-270.dwg	5/3/2010	M. Nguyen
B.2		03/31/26	

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DATA CONTROL LEVEL 1	RELEASE STAMP PD- 4M511	SIZE D	CAGE NO. 66195	Solar Turbines A Caterpillar Company	P.O. BOX 85376 San Diego, California 92186-5376
		MFG DES ENGINEER	DATE	DRAWING TITLE	
		DESIGN ENGINEER BARRAZA, PAUL	DATE 04/29/2025	TURBINE BOX DOOR JB70	
PROJECT NAME ENI - KUTEI NORTH HUB - FPSO				PANEL NO. 1054689	
MODEL CTLM02 TURBOTRONICS 4				DWG NO. 4M511-149419	SHT REV B.2
LOC T:\PROJECT\LAYOUT\REV\				DWG REV B.2	SHEET 18 OF 26

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REVISION HISTORY

REV	DESCRIPTION	DATE	APPROVED
751	T:\149332\Rev270\1054689-270.dwg	5/3/2010	M. Nguyen
B.2		03/16/26	

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DATA CONTROL LEVEL 1	RELEASE STAMP PD- 4M511	SIZE D	CAGE NO. 66195	Solar Turbines A Caterpillar Company	P.O. BOX 85376 San Diego, California 92186-5376
		MFG DES ENGINEER	DATE	DRAWING TITLE	
		DESIGN ENGINEER BARRAZA, PAUL	DATE 04/29/2025	TURBINE BOX LEFT RAIL JB70	
PROJECT NAME ENI - KUTEI NORTH HUB - FPSO				PANEL NO. 1054689L	
MODEL CTLM02 TURBOTRONICS 4				DWG NO. 4M511-149419	SHT REV B.1
LOC T:\PROJECT\LAYOUT\REV\				DWG REV B.2	SHEET 19 OF 26

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REVISION HISTORY

REV	DESCRIPTION	DATE	APPROVED
751	T:\149332\Rev270\1054689-270.dwg	5/3/2010	M. Nguyen
B.2		04/06/26	

BOX: 1905603-900

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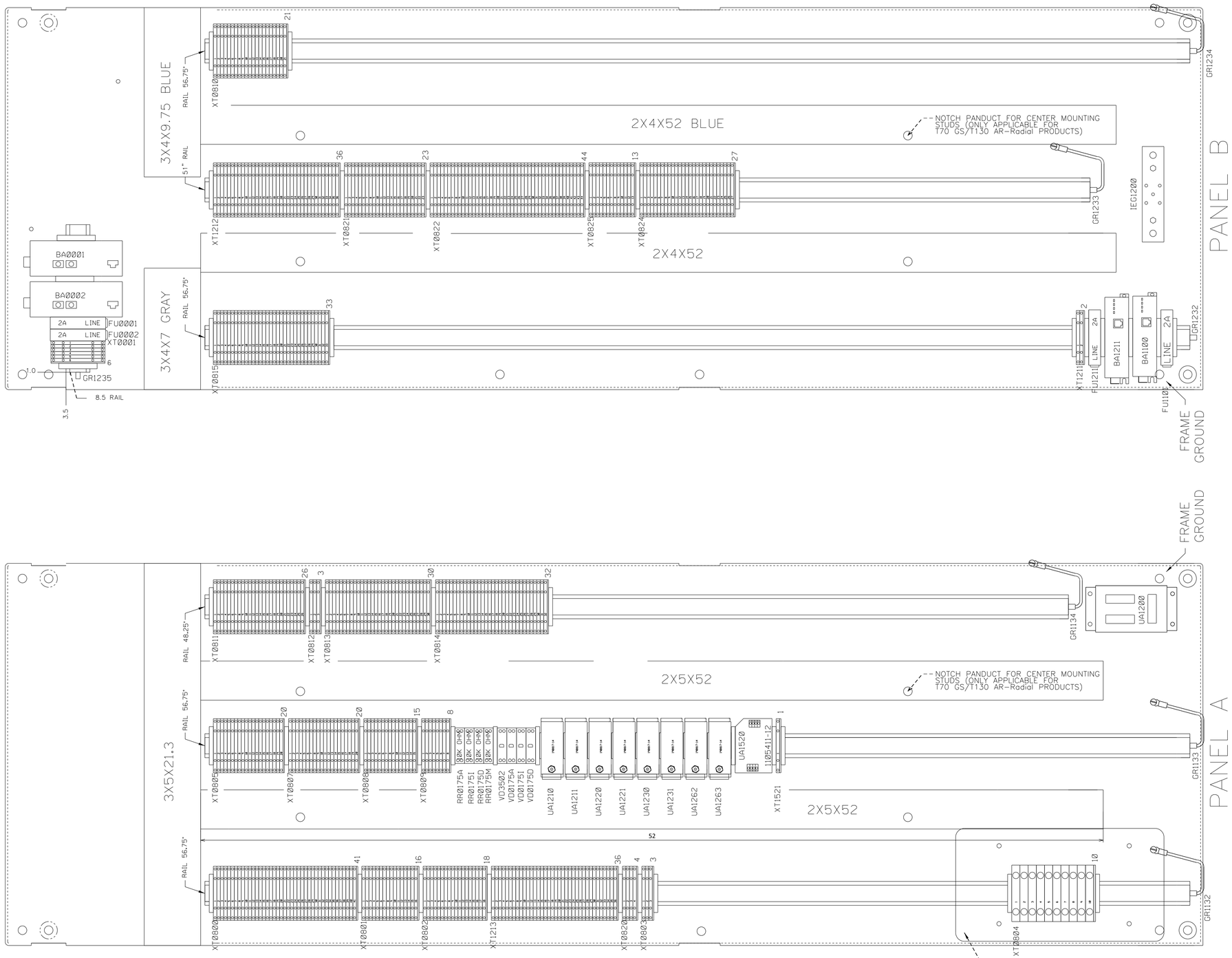
DATA CONTROL LEVEL 1	RELEASE STAMP PD- 4M511	SIZE D	CAGE NO. 66195	Solar Turbines A Caterpillar Company	P.O. BOX 85376 San Diego, California 92186-5376
		MFG DES ENGINEER	DATE	DRAWING TITLE	
		DESIGN ENGINEER BARRAZA, PAUL	DATE 04/29/2025	TURBINE BOX RIGHT RAIL JB70	
PROJECT NAME ENI - KUTEI NORTH HUB - FPSO				PANEL NO. 1054689R	
MODEL CTLM02 TURBOTRONICS 4				DWG NO. 4M511-149419	SHT REV B.2
LOC T:\PROJECT\LAYOUT\REV\				DWG REV B.2	SHEET 20 OF 26



PANEL:1058112-1102
BOX: 1905603-900

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REVISION HISTORY

REV	DESCRIPTION	DATE	APPROVED
751	T:\149332\Rev270\1055865-270.dwg	5/3/2010	M. Nguyen
B.2_M.1		03/19/26	

B.2_M.1

Removed extra frame ground note

Nomar Lopez d67755
04-07-26

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DATA CONTROL LEVEL	RELEASE STAMP	SIZE	CAGE NO.	Solar Turbines A Caterpillar Company	P.O. BOX 85376 San Diego, California 92186-5376
1	PD- 4M511	D	66195		
		MFG DES ENGINEER	DATE	DRAWING TITLE	
		DESIGN ENGINEER: BARRAZA, PAUL	DATE: 04/29/2025	TURBINE BOX PANEL	

PROJECT NAME: ENI - KUTEI NORTH HUB - FPSO
PANEL NO. 1055865
MODEL: CTLM02 TURBOTRONICS 4
DWG NO. 4M511-149419
SHT REV B.2_M.1
LOC: T:\PROJECT\LAYOUT\REV\
DWG REV B.2_M.1
SHEET 21 OF 26

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REVISION HISTORY

REV	DESCRIPTION	DATE	APPROVED
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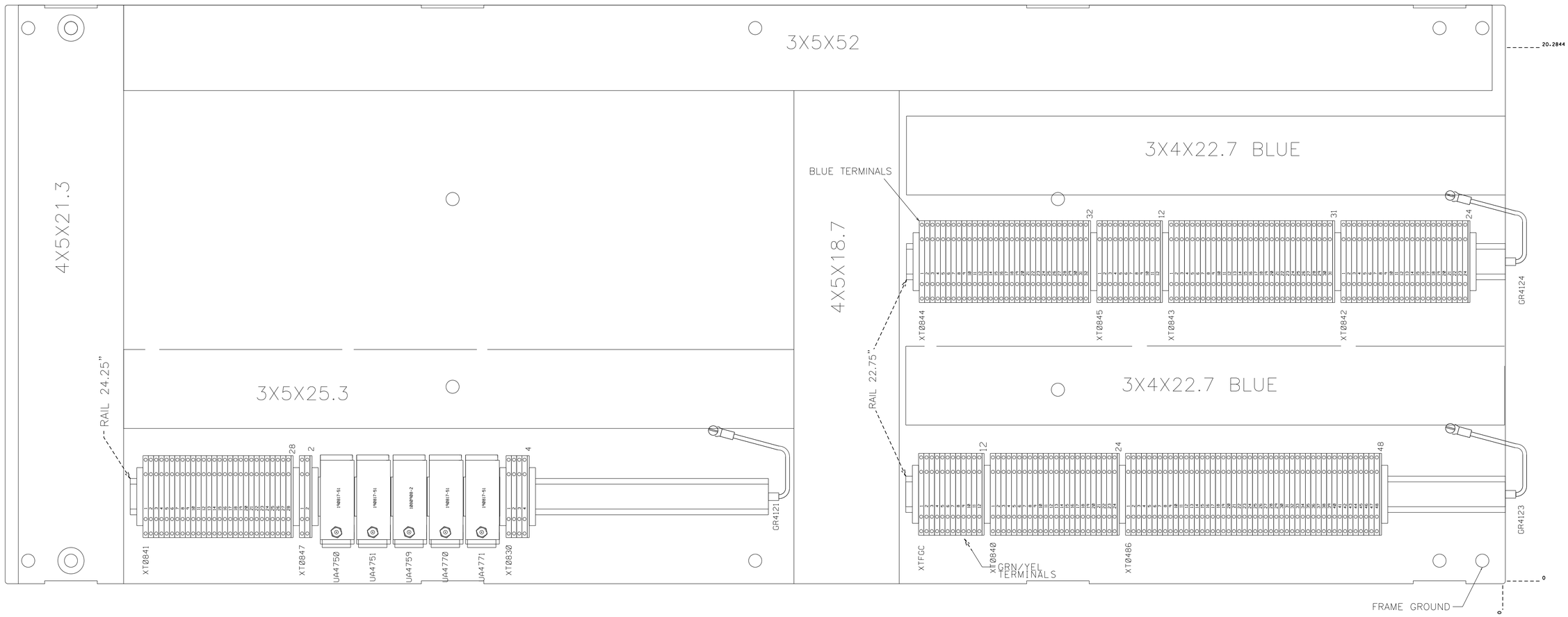
B.2		04/06/26	



PANEL:1058112-1501
BOX: 1091545-1202

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DATA CONTROL LEVEL	RELEASE STAMP	SIZE	CAGE NO.		
1	PD- 4M511	D	66195	Solar Turbines A Caterpillar Company	P.O. BOX 85376 San Diego, California 92186-5376
		MFG DES ENGINEER	DATE	DRAWING TITLE	
		DESIGN ENGINEER: BARRAZA, PAUL	DATE: 04/29/2025	HP/LP COMPRESSOR JBOX	

PROJECT NAME: ENI - KUTEI NORTH HUB - FPSO	PANEL NO: 1070691
MODEL: CTLM02 TURBOTRONICS 4	DWG NO. 4M511-149419 SHT REV B.2
LOC: T:\PROJECT\LAYOUT\REV\	DWG REV B.2 SHEET 22 OF 26

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REVISION HISTORY

REV	DESCRIPTION	DATE	APPROVED
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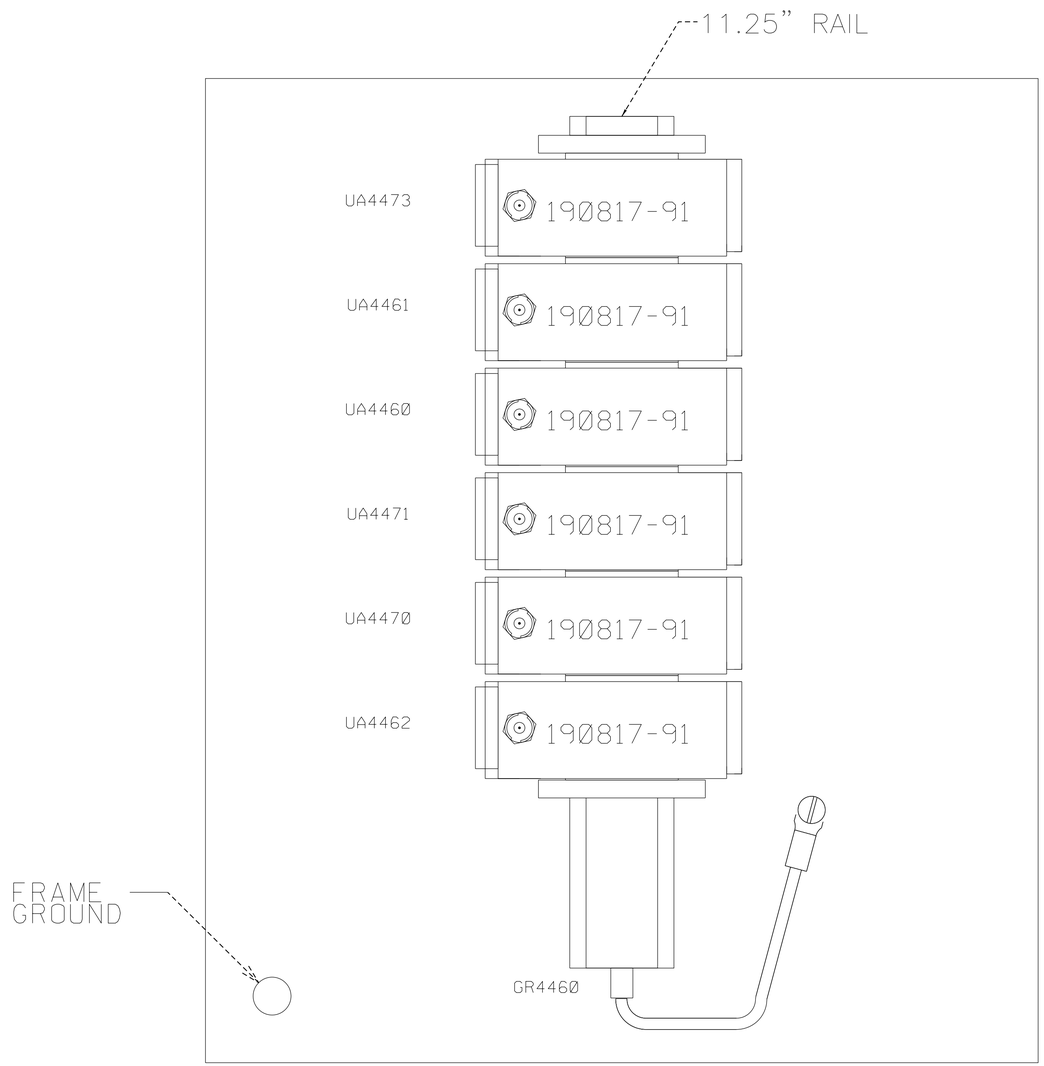
B.2		03/16/26	



PANEL: 1058112-1900
BOX: 1057018-32

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DATA CONTROL LEVEL	RELEASE STAMP	SIZE	CAGE NO.		
1	PD- 4M511	D	66195	Solar Turbines A Caterpillar Company	P.O. BOX 85376 San Diego, California 92186-5376
		MFG DES ENGINEER	DATE	DRAWING TITLE	
		DESIGN ENGINEER: BARRAZA, PAUL	DATE: 04/29/2025	HP COMPRESSOR PROXIMITORS	

PROJECT NAME	ENI - KUTEI NORTH HUB - FPSO	PANEL NO. 1070692	
MODEL	CTLM02 TURBOTRONICS 4	DWG NO. 4M511-149419	SHT REV B.1
LOC	T:\PROJECT\LAYOUT\REV\	DWG REV B.2	SHEET 23 OF 26

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REVISION HISTORY

REV	DESCRIPTION	DATE	APPROVED
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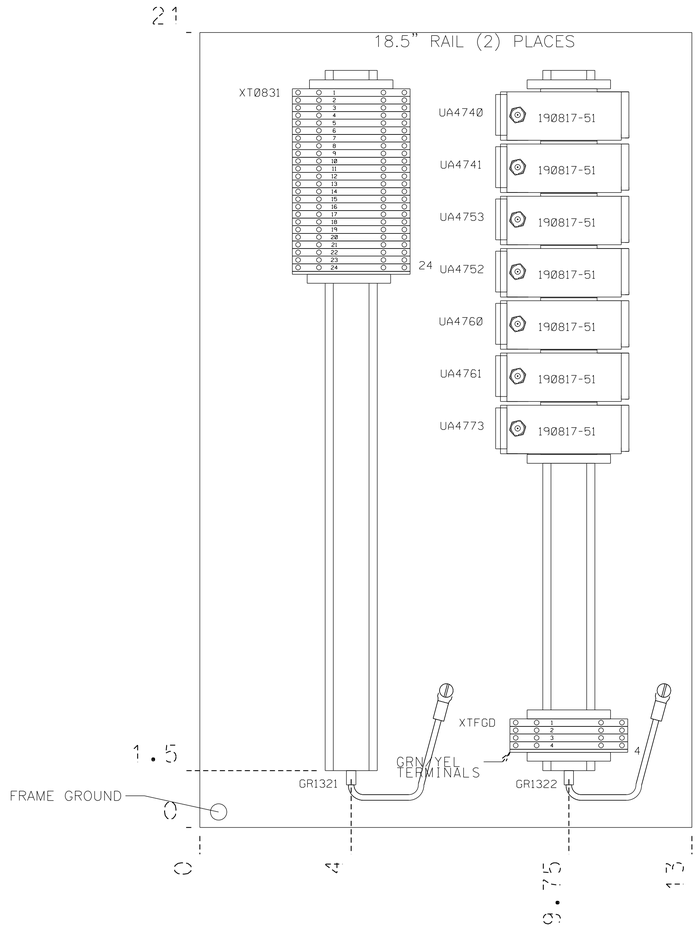
B.2		04/06/26	



PANEL: 981070C1
BOX: 1059579-50

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DATA CONTROL LEVEL	RELEASE STAMP	SIZE	CAGE NO.		
1	PD- 4M511	D	66195	Solar Turbines A Caterpillar Company	P.O. BOX 85376 San Diego, California 92186-5376
		MFG DES ENGINEER	DATE	DRAWING TITLE	
		DESIGN ENGINEER: BARRAZA, PAUL	DATE: 04/29/2025	GEARBOX BOX PANEL	

PROJECT NAME	ENI - KUTEI NORTH HUB - FPSO	PANEL NO.	1055268
MODEL	CTLM02 TURBOTRONICS 4	DWG NO.	4M511-149419
LOC	T:\PROJECT\LAYOUT\REV\	DWG REV	B.2
		SHT REV	B.2
		SHEET	24 OF 26

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REVISION HISTORY

REV	DESCRIPTION	DATE	APPROVED
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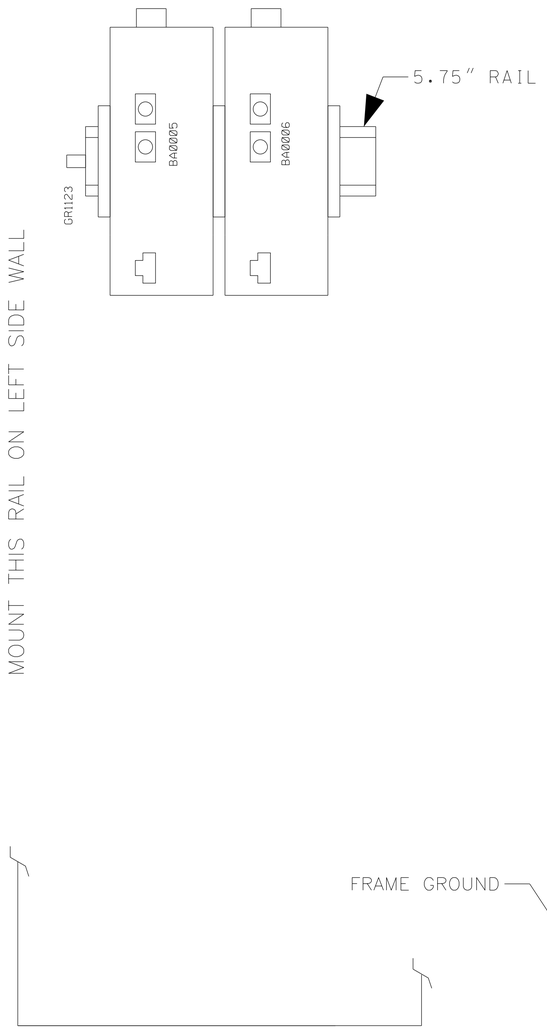
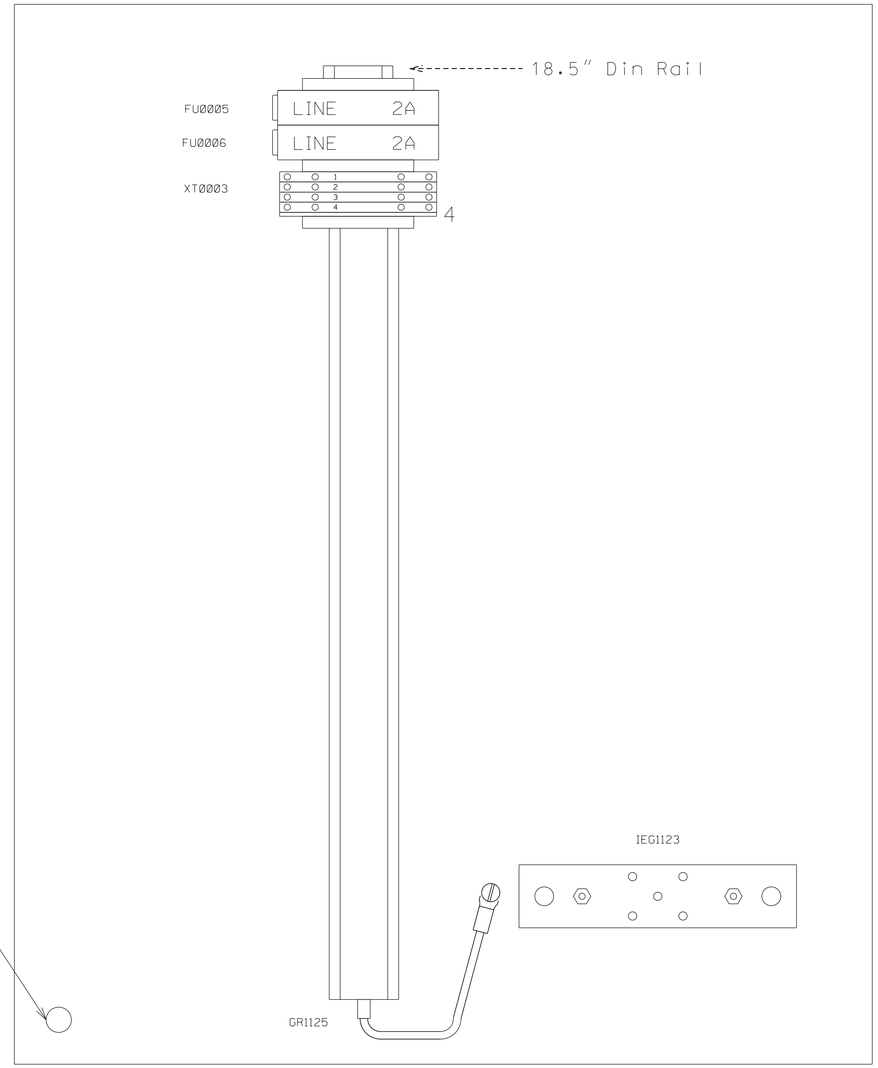
B.2		03/19/26	





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BOX: 1054596-50

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DATA CONTROL LEVEL 1	RELEASE STAMP PD- 4M511	SIZE D	CAGE NO. 66195	Solar Turbines A Caterpillar Company	P.O. BOX 85376 San Diego, California 92186-5376
		MFG DES ENGINEER	DATE	DRAWING TITLE VFD MEDIA CONVERTER JB1123	
		DESIGN ENGINEER BARRAZA, PAUL	DATE 04/29/2025		
PROJECT NAME ENI - KUTEI NORTH HUB - FPSO				PANEL NO. 1095902	
MODEL CTLM02 TURBOTRONICS 4				DWG NO. 4M511-149419	SHT REV B.1
LOC T:\PROJECT\LAYOUT\REV\				DWG REV B.2	SHEET 25 OF 26

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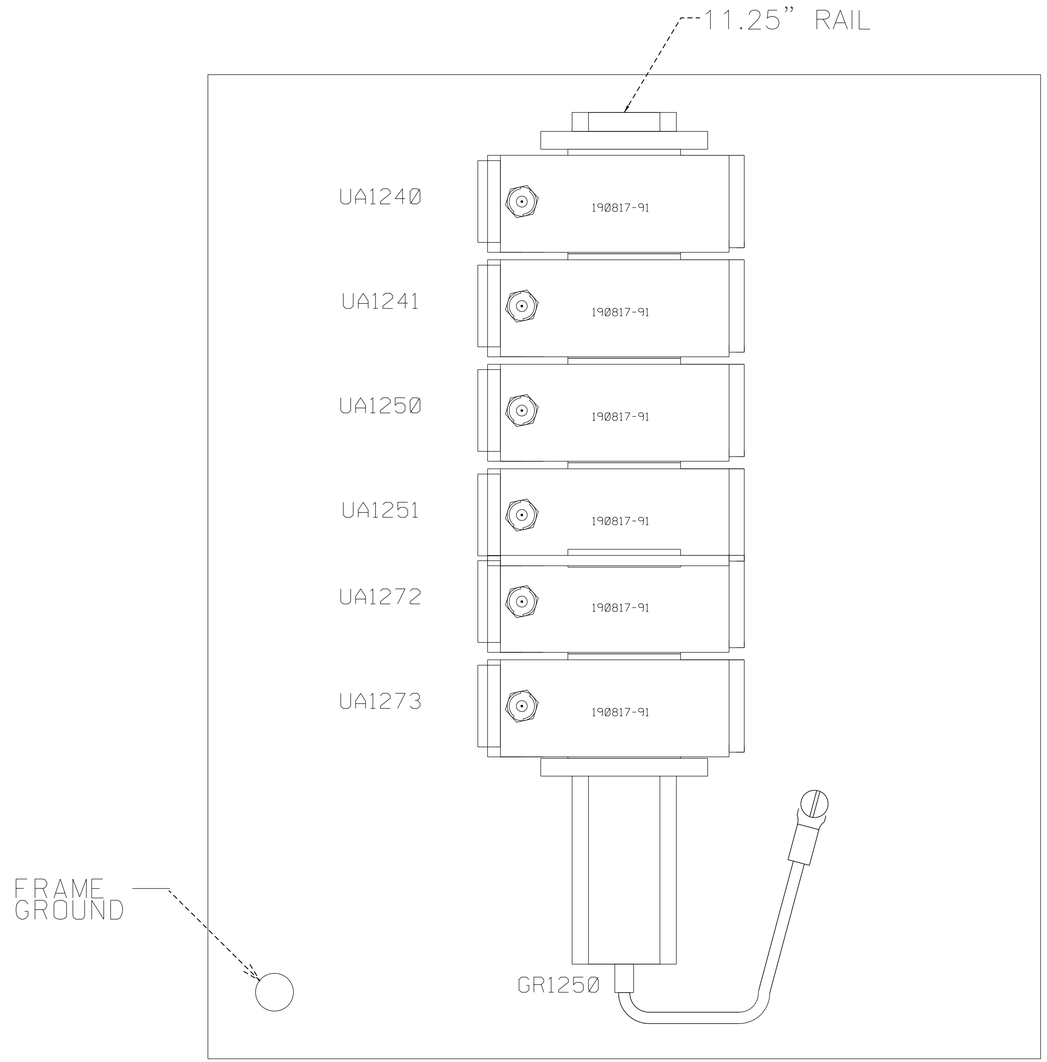
REVISION HISTORY

REV	DESCRIPTION	DATE	APPROVED
B.2		03/19/26	



PANEL: 1058112-1900
BOX: 1057018-32

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DATA CONTROL LEVEL	RELEASE STAMP	SIZE	CAGE NO.		
1	PD- 4M511	D	66195	Solar Turbines A Caterpillar Company	P.O. BOX 85376 San Diego, California 92186-5376
		MFG DES ENGINEER	DATE	DRAWING TITLE	
		DESIGN ENGINEER: BARRAZA, PAUL	DATE: 04/29/2025	JB4	

PROJECT NAME	ENI - KUTEI NORTH HUB - FPSO	PANEL NO.	
MODEL	CTLM02 TURBOTRONICS 4	DWG NO. 4M511-149419	SHT REV B.1
LOC	T:\PROJECT\LAYOUT\REV\	DWG REV B.2	SHEET 26 OF 26