

TABLE-1: 220kV EQUIPMENT

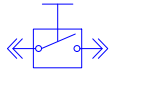
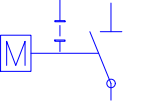
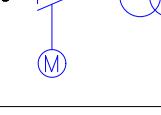
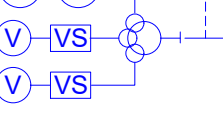
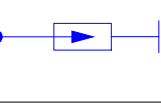
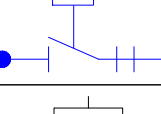
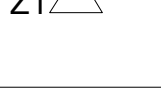
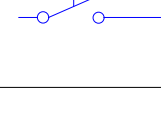
LEGEND	ABBREVIATION	DESCRIPTION
	CT/PNCT	CURRENT TRANSFORMER
	CB	CIRCUIT BREAKER
	LIS/ATIS/TTIS	MOTORISED DISCONNECTOR SWITCH WITH EARTH (INSULATED)
	VTC	MOTORISED VOLTAGE TRANSFORMER WITH ISOLATING LINK
	LIS	EARTHING ISOLATOR
	VTI	INCOMING VOLTAGE TRANSFORMER
	LAI/LAAT/PNLA	LIGHTNING ARRESTER
	LEIS	EARTHING ISOLATOR (MOTORIZED)
	AT-01/02/03/04	132/33kV AUXILIARY TRANSFORMER ONAN
	TT-01/02/03/04	132/27.5kV TRACTION TRANSFORMER ONAN
	CSE	CABLE SEALING END
	LEIS	EARTHING ISOLATOR (MOTORIZED)

TABLE-2: 33kV EQUIPMENT

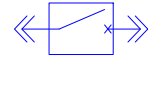
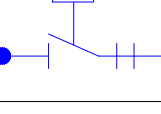
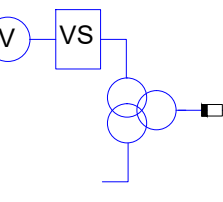
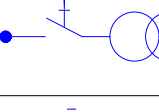
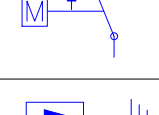
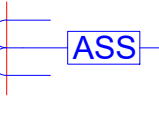
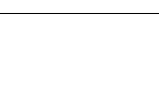
LEGEND	ABBREVIATION	DESCRIPTION
	CT/LFCT/RCCT	CURRENT TRANSFORMER
	LBCB/LFCB/RCCB /LBCEIS/LVATCB	CIRCUIT BREAKER,
	CSE	CABLE TERMINATION
	LBEIS/LFEIS/ LVATEIS/RCEIS/ LBCEIS	EARTHING ISOLATOR (MOTORIZED)
	LBVT/PTR	VOLTAGE TRANSFORMER WITH DEVICE TO BREAK VT HIGH VOLTAGE CONNECTION

TABLE-3: 25kV EQUIPMENT

LEGEND	ABBREVIATION	DESCRIPTION
	CT/TCT	CURRENT TRANSFORMER
	CB	25kV MOTORISED CIRCUIT BREAKER,
	VT	POTENTIAL TRANSFORMER WITH ISOLATING LINK
	SP	MOTORISED THREE POSITION SWITCH (INSULATED)
	LA/LAI	LIGHTNING ARRESTER
	CSE	CABLE TERMINATION
	VT	POTENTIAL TRANSFORMER WITH ISOLATING LINK
	CT	CURRENT TRANSFORMER

- NOTES FOR TYPICAL SLD TYPE-1 FOR 220KV GIS :-**
- THIS 220 kV KEY SLD IS INDICATIVE ONLY AND TRACTION CONTRACTOR SHALL MAKE DETAILED SLD AS PER TECHNICAL SPECIFICATION AND AGREEMENT WITH CLIENT.
 - THIS DRAWING IS INDICATIVE AND FOR TENDER PURPOSE ONLY AND CONTRACTOR SHALL DEVELOP THE DRAWING FOR CLIENT APPROVAL.
 - A DETAILED SLD ALONG WITH THE PROTECTION WILL BE AS PER TECHINCAL SPECIFICATION AND AGREEMENT WITH CLIENT.
 - ALL RATINGS ARE INDICATIVE ONLY AND SHALL BE FINALIZED AS PER DETAIL DESIGN.

NOTES:

- ALL DIMENSIONS ARE IN MM UNLESS MENTIONED OTHERWISE.
- ALL DIMENSIONS ARE TO BE READ AND NOT TO BE MEASURED.
- ANY DISCREPANCY IN THE DRAWING MUST BE BROUGHT TO THE NOTICE OF THE DESIGNER.
- INTERFACE WITH OTHER DESIGN DISCIPLINE WILL BE DONE AS PER AVAILABILITY OF DETAILS.

R1	02-09-2024	SECOND SUBMISSION	KB	VS/RK	SK
R0	08-08-2024	FIRST SUBMISSION	KB	VS/RK	SK
REV	DATE	DESCRIPTION	Originator	Checked	Approved

K RIDE

DM / ELE / KRIDE Sr. DGM / ELE / KRIDE AGM / ELE / KRIDE

Certified that this document has been designed and checked in accordance with GC Quality Assurance Plan.

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EGIS-AECOM-WSP

Senior Discipline Expert Chief Discipline Expert Project Director

Certified that this document has been designed and checked in accordance with DDC Quality Assurance Plan.
Detailed Design Consultant for design of Traction & Auxiliary Power Supply and Distribution for BSRP

SYSTRA

SYSTRA MVA CONSULTING (INDIA) PVT. LTD.
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Mindscapes, Mathura Road, NH2, Sector 27D,
Faridabad, Haryana 121013

Drawn: K.Biaht V. Singh R.Kannan Checked: S. Kumar Approved: S. Kumar

Client:



RAIL INFRASTRUCTURE
DEVELOPMENT COMPANY
(KARNATAKA) LIMITED

Project Title: Bengaluru Suburban Rail Project (BSRP)
(Detailed Design Consultant for design of Traction & Auxiliary Power Supply and Distribution for BSRP)

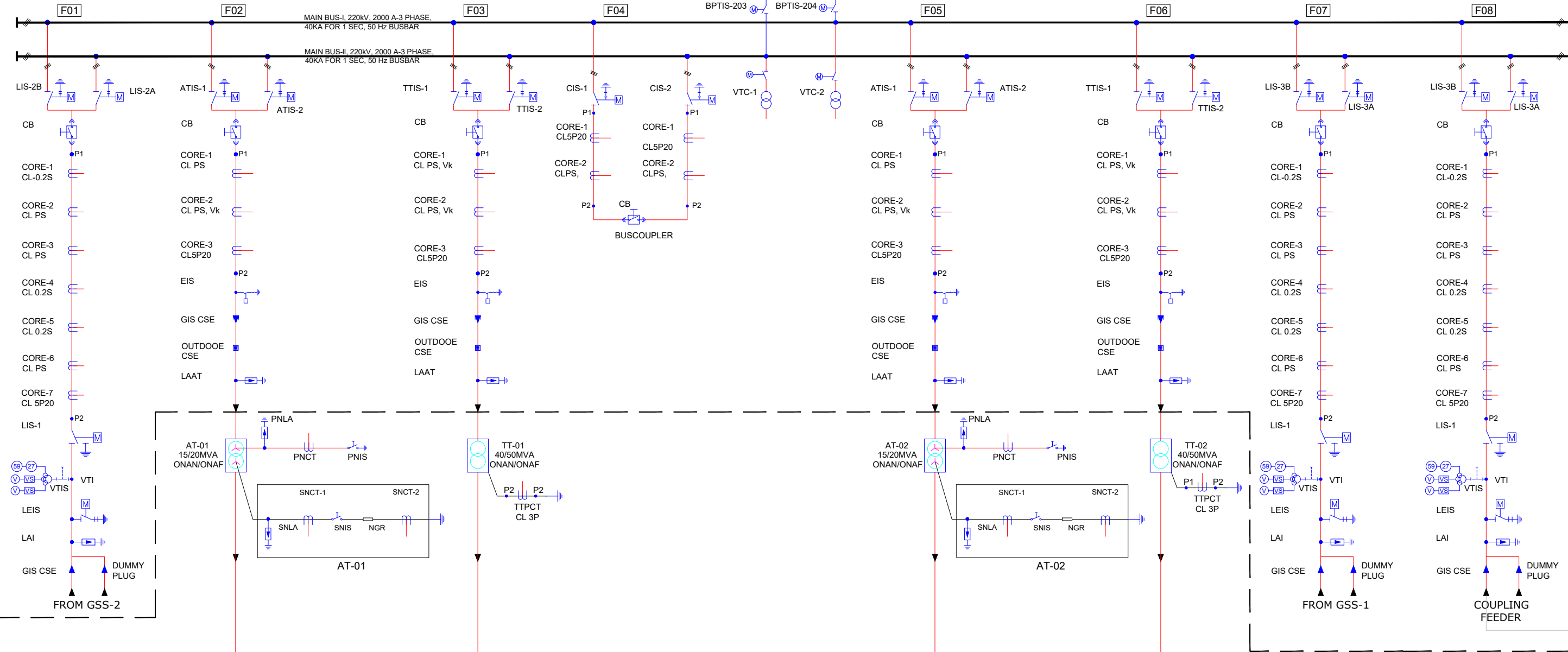
Corridor-2
Drawing Title: Typical Single Line Diagram Of GIS RSS CUM AMS CUM TSS - 220/33/27.5 kV GIS Substation - Benniganahalli RSS (Sh. 1 of 2)
Project Stage: Tender Drawing
Paper Size: A1 Discipline: Power Supply & Traction System Date: 08/08/2024 Scale: TS/NTS
Drawing no.: KRDD01-TDR-GEN-GEN-TPS-DWG-00013 Revision: R1

TYPE-1 RSS

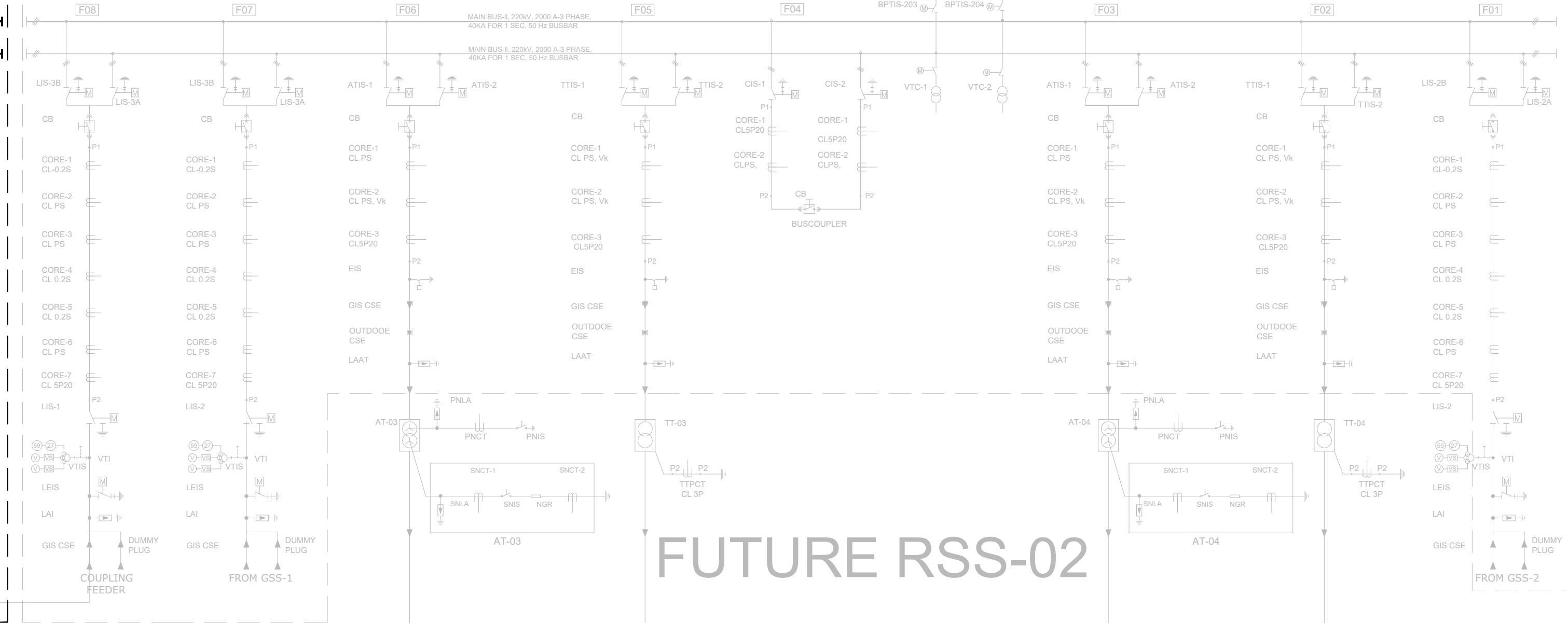
1. BENNIGANAHALLI

220kV RSS (GIS)

RSS-01

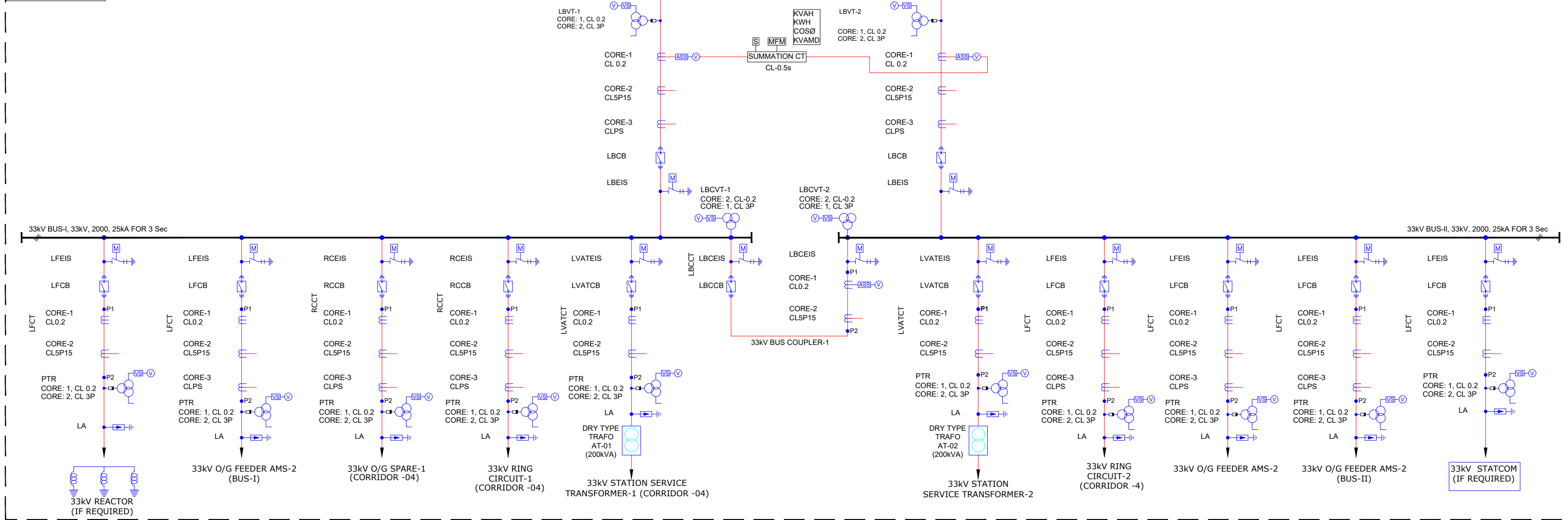


RSS-02

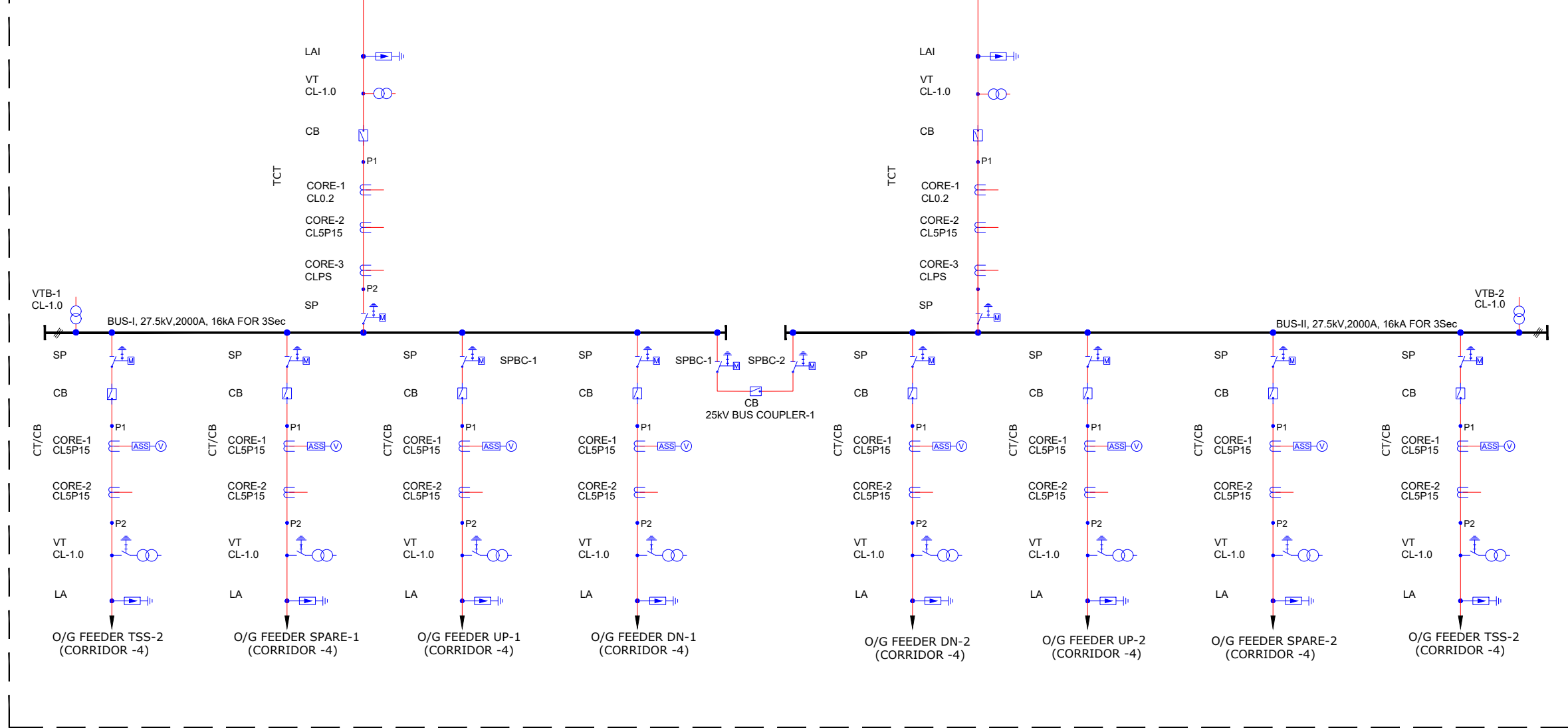


FUTURE RSS-02

33kV AMS-01 (AIS)



25kV TSS-01 (GIS)



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4. INTERFACE WITH OTHER DESIGN DISCIPLINE WILL BE DONE AS PER AVAILABILITY OF DETAILS.

REV	DATE	DESCRIPTION	Originator	Checked	Approved
R1	02-09-2024	SECOND SUBMISSION	KB	VS/RK	SK
R0	08-08-2024	FIRST SUBMISSION	KB	VS/RK	SK

K RIDE

DM / ELE / KRIDE Sr. DGM / ELE / KRIDE AGM / ELE / KRIDE

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egis AECOM WSP
EGIS-AECOM-WSP

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Corridor- 2	Project Stage:
Drawing Title: Typical Single Line Diagram Of GIS RSS CUM AMS CUM TSS - 220/33/27.5 kV GIS Substation - Benniganahalli RSS (Sh. 2 of 2)	Tender Drawing
Paper Size: A1	Date: 08/08/2024
Discipline: Power Supply & Traction System	Scale: TS/NTS
Drawing no.: KRDD01-TDR-GEN-GEN-TPS-DWG-00013	Revision: R1

FOR TENDER PURPOSE ONLY