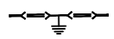
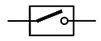
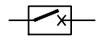
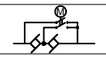
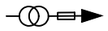
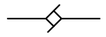
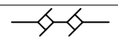
LEGENDS:

Sl.No.	SYMBOLS	DESCRIPTION
1		SHORT NEUTRAL SECTION (PTFE)
2		INTERRUPTER (BM)
3		CIRCUIT BREAKER (CB)
4		MOTORIZED DP ISOLATOR
5		POTENTIALTRANSFORMER (PT)
6		SUB SECTIONING AND PARALLELING POST (SSP)
7		SECTIONING AND PARALLELING POST (SP)
8		SUB SECTIONING POST (SS)
9		FEEDING POST (FP)
10		SECTION INSULATOR (SI)
11		MOTORISED ISOLATOR (SM)
12		ISOLATOR (SM)
13		BOOSTER TRANSFORMER (BT)
14		LIGHTNING ARRESTOR (LA)
15		CAPACITIVE VOLTAGE SENSOR (CS)
16		INSULATED OVERLAP (IOL)
17		UN-INSULATED OVERLAP (UIOL)
18		ANTICREEP CENTER (ACC)
19	NO	NORMALLY OPEN
20	NC	NORMALLY CLOSED
21		TRACK AT LOWER LEVEL (CORRIDOR 2)
22		DOUBLE SECTION INSULATOR (SI)

Notes:-

1. ALL DIMENSIONS ARE IN METERS UNLESS NOTED OTHERWISE.
2. ALL DIMENSIONS ARE TO BE READ AND NOT TO BE MEASURED.
3. THE SECTIONING DIAGRAM HAS BEEN REVISED ACCORDING TO ALIGNMENT PLAN AS SHARED BY GC/KRIDE ON 08-07-2024 BY EMAIL.
4. CHAINAGES MARKED FOR FP / SSP / SS ARE TENTATIVE AND WITH RESPECT TO LATEST ALIGNMENT DRAWING AS MENTIONED ABOVE.
5. SRJ CHAINAGES ARE MARKED WITH REFERENCE TO ABOVE MENTIONED LATEST ALIGNMENT DRAWINGS.
6. EQUIPMENT SHALL BE NUMBERED AFTER THE APPROVAL OF SECTIONING DIAGRAM & NUMBERING SCHEME FROM GC/K-RIDE.
7. LOCATIONS OF IOL / UIOL IN THE SECTIONING DIAGRAM ARE TENTATIVE & WILL BE FINAILIZED AFTER THE COMPLETION OF PEGGING PLAN.
8. IN CORRIDOR-2, AT FOLLOWING PLACES INTERLINKING WITH DIFFERENT CORRIDORS IS OBSERVED AS PER GENERAL ARRANGEMENT DRAWING.
   - **LOC. (-) 1+138 & (-) 1+073 (CROSS OVER BETWEEN C2 & C4) :** IN NORMAL SCENARIO, **BENNIGANAHALLI** STATION OF CORRIDOR-2 SHALL BE FED FROM CORRIDOR-4, THROUGH THIS CROSSOVER UP TO PTFE NEUTRAL SECTION. (CH: (-)0+063).
     IN EXIGENCY CASES (N-1 SCENARIO), FEED SHALL BE EXTENDED TO EITHER SIDE OF PTFE THROUGH THE INTERRUPTER(BM).THE CROSSOVER SHALL REMAIN AS A NORMAL CROSSOVER & INTER MOVEMENT OF ROLLING STOCK IS NOT RESTRICTED.
     WHEN MATHIKERE SHALL BE OUT, SUPPLY WILL BE EXTENDED FOR C-2 THROUGH CABLE FROM BENNIGANAHALLI (C4), BY CLOSING INTERRUPTER (BM)
   - **LOC. NEAR 17+400 KM (CROSS OVER AT YESVANTPUR FROM C-1 TO C-2) :** AS PER THE SECTIONING DIAGRAM, CROSSOVER SHALL HAVE DOUBLE SI PROVISION WITH DOUBLE POLE ISOLATOR WITH TWO SECTION INSULATOR.FOLLOWED BY TWO NO'S OF IOL'S WITH BM IN CORRIDOR-2 NEAR CH 17+310 & 17+755.
     IN NORMAL SCENARIO, CROSS OVER SHALL BE FED FROM TWO DIFFERENT CORRIDORS TILL THE POINT OF DP ISOLATOR. THE CROSSOVER SHALL REMAIN AS AN EMERGENCY CROSSOVER. INTRA MOVEMENT OF ROLLING STOCK IS RESTRICTED. REFER TO THE INTERLOCKING SCHEME.

S.No.	EQUIPMENT	NORMAL CASE	EMERGENCY CASE
1	DP ISOLATOR	OPEN	CLOSE
2	BM (CH-17+310)	CLOSE	OPEN
3	BM (CH-17+755)	CLOSE	OPEN

   - **AT THE END OF CORRIDOR-2 NEAR TO SOLADEVANAHALLI DEPOT :** SINCE, SOLADEVANAHALLI DEPOT HAS A SEPARATE FEEDING SOURCE IN DEPOT, IT SHALL BE ISOLATED FROM MAIN LINE THROUGH THE PROVISION OF PTFE TYPE NEUTRAL SECTION AS SHOWN IN. SINCE THERE IS SPACE CONSTRAINT AT ENTRY / EXIT LINE OF DEPOT, PTFE IS PROPOSED ON MAIN LINE.
9. ALL NO/NC OPERATION SHALL BE SCADA INTERLOCK.
10. FOR CORRIDOR 1 & 4 SECTIONING DIAGRAM REFER SEPARATE DRAWING.
11. DURING FEED EXTENSION FROM MATHIKERE RSS TOWARDS SOLDEVANAHALLI STATION THROUGH SOLDEVANAHALLI SP, THE DEPOT SHALL ALSO BE FED FROM THE MAIN LINE INSTEAD OF THE DEPOT RSS TO ENSURE THE SAME PHASE SUPPLY.

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K RIDE

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

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egis AECOM wsp
EGIS-AECOM-WSP

Senior Discipline Expert	Chief Discipline Expert	Project Director

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Detailed Design Consultant for design of Traction & Auxiliary Power Supply and Distribution for BSRP
SYSTRA MVA CONSULTING (INDIA) PVT. LTD.
10th and 11th Floor, Tower-B, 12/3, Vatika Mindscapes, Mathura Road, NH2, Sector 27D, Faridabad, Haryana 121013

Drawn		Checked:		Approved:	
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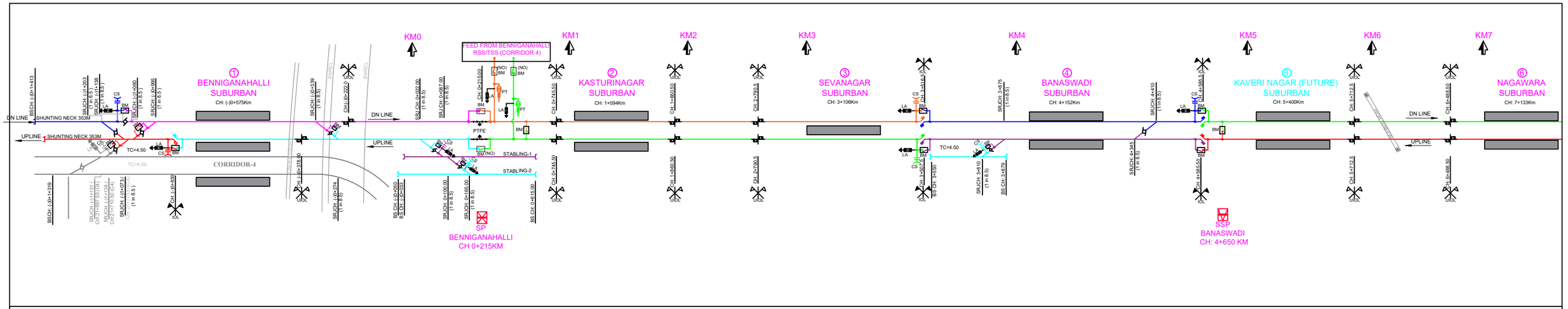
S. Bhati		N. Parmar		S. Kumar	

Client: K RIDE
RAIL INFRASTRUCTURE DEVELOPMENT COMPANY (KARNATAKA) LIMITED

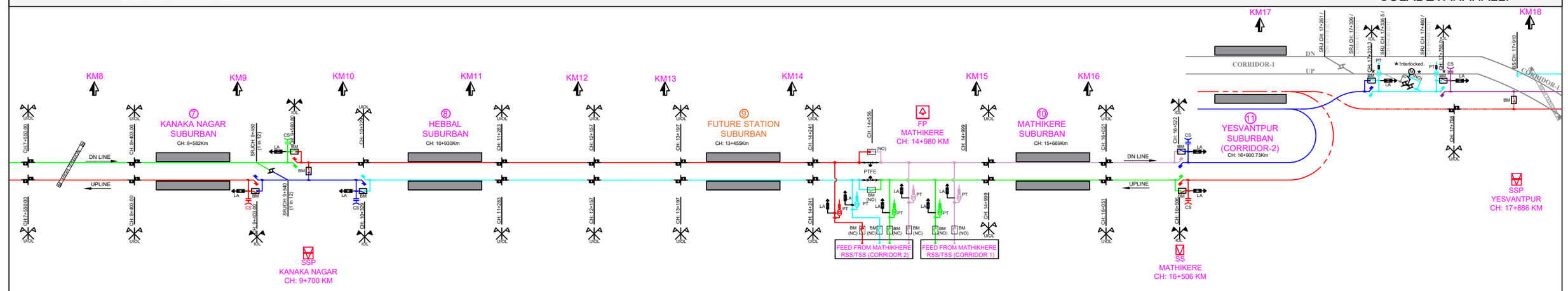
Project Title: Bengaluru Suburban Rail Project (BSRP)
(Detailed Design Consultant for design of Traction & Auxiliary Power Supply and Distribution for BSRP)
Corridor-2 (Benniganahalli -Soladevanahalli)
Drawing Title: MAIN LINE 25KV OHE SECTIONING SCHEMATIC DIAGRAM (Sheet 1 of 10)
Project Stage:

Paper Size:	Discipline:	Date:	Scale:
A3	Power Supply & Traction System	31/05/2024	NTS

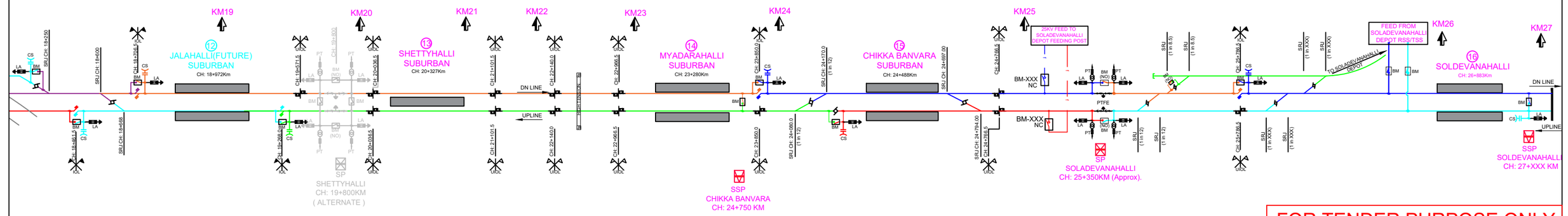
Drawing no.: KRDD01-TDR-CR02-GEN-OCS-SEC-00002-R1
Revision: R1



BENNIGANAHALLI — SOLADEVANAHALLI



BENNIGANAHALLI — SOLADEVANAHALLI



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Drawn	Checked:	Approved:
I. Alam	D. Kalyan	R. Kapoor
S. Bhati	N. Parmar	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 (Benniganahalli -Soladevanahalli)

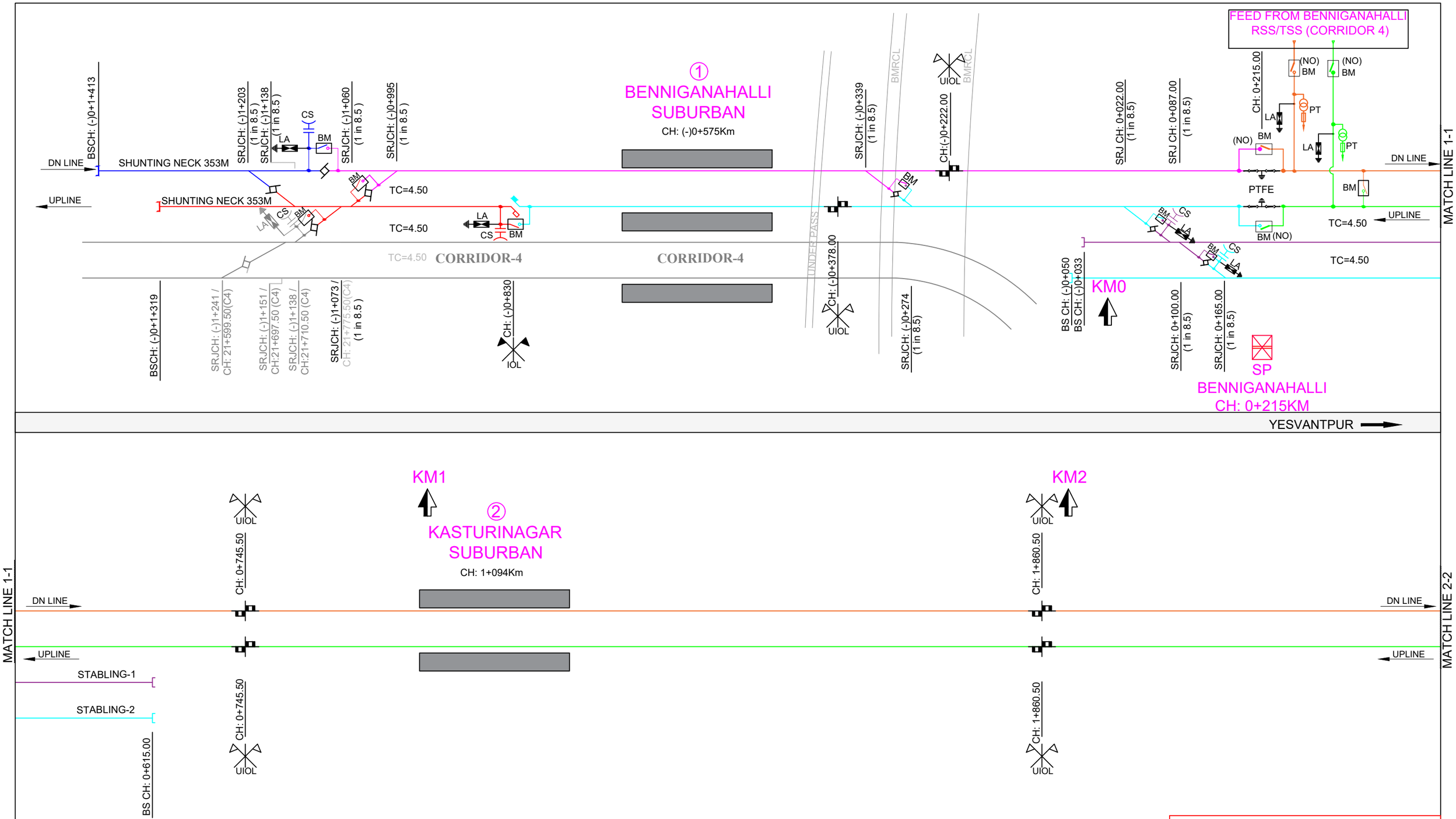
Drawing Title: MAIN LINE 25KV OHE SECTIONING SCHEMATIC DIAGRAM (Sheet 2 of 10)

Project Stage:

Paper Size:	Discipline:	Date:	Scale:
A3	Power Supply & Traction System	31/05/2024	NTS

Drawing no.: KRDD01-TDR-CR02-GEN-OCS-SEC-00002-R1

Revision: R1



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Corridor-2 (Benniganahalli -Soladevanahalli)

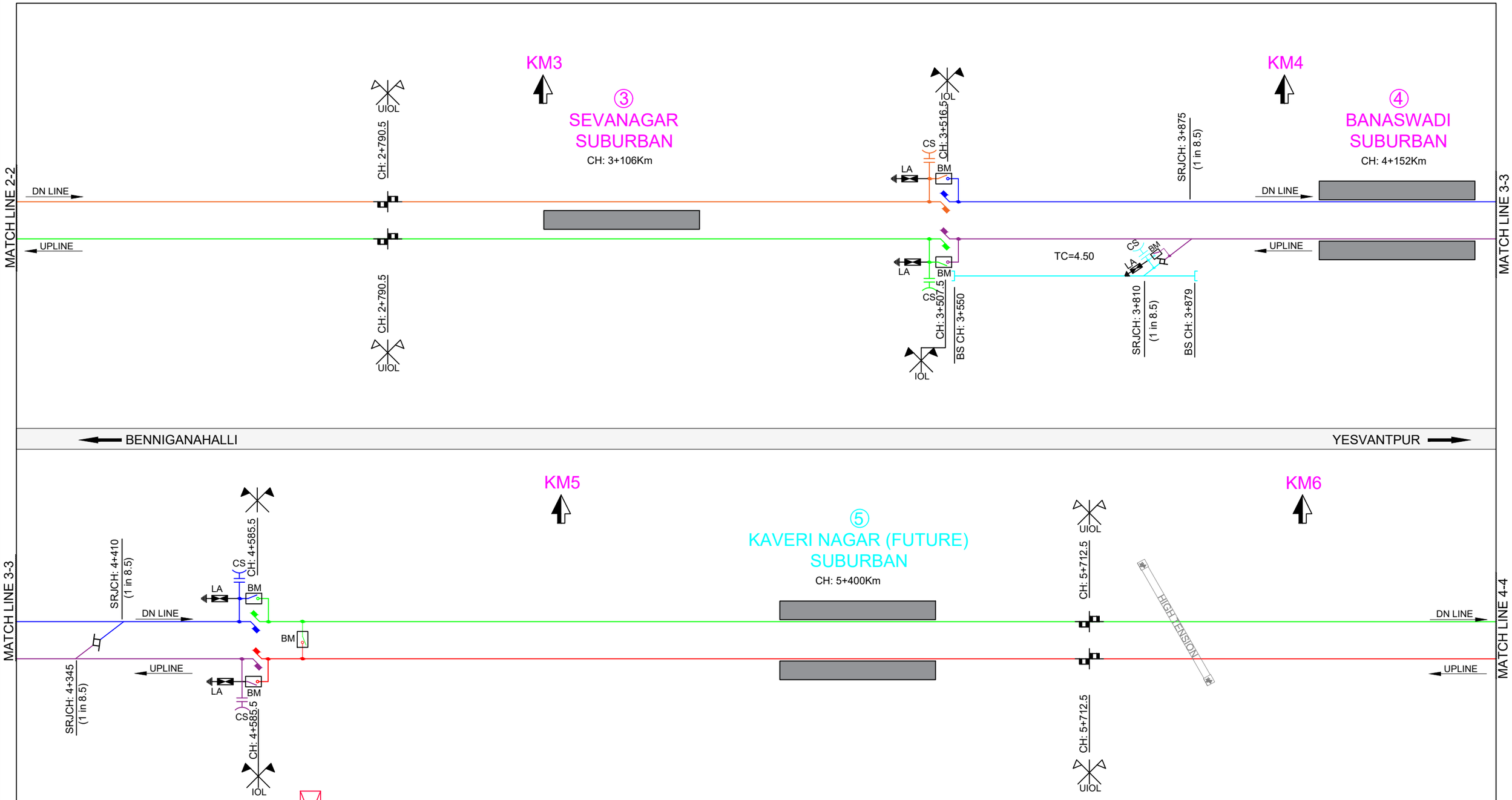
Drawing Title: MAIN LINE 25KV OHE SECTIONING SCHEMATIC DIAGRAM (Sheet 3 of 10)

Project Stage:

Paper Size:	Discipline:	Date:	Scale:
A3	Power Supply & Traction System	31/05/2024	NTS

Drawing no.: KRDD01-TDR-CR02-GEN-OCS-SEC-00002-R1

Revision: R1



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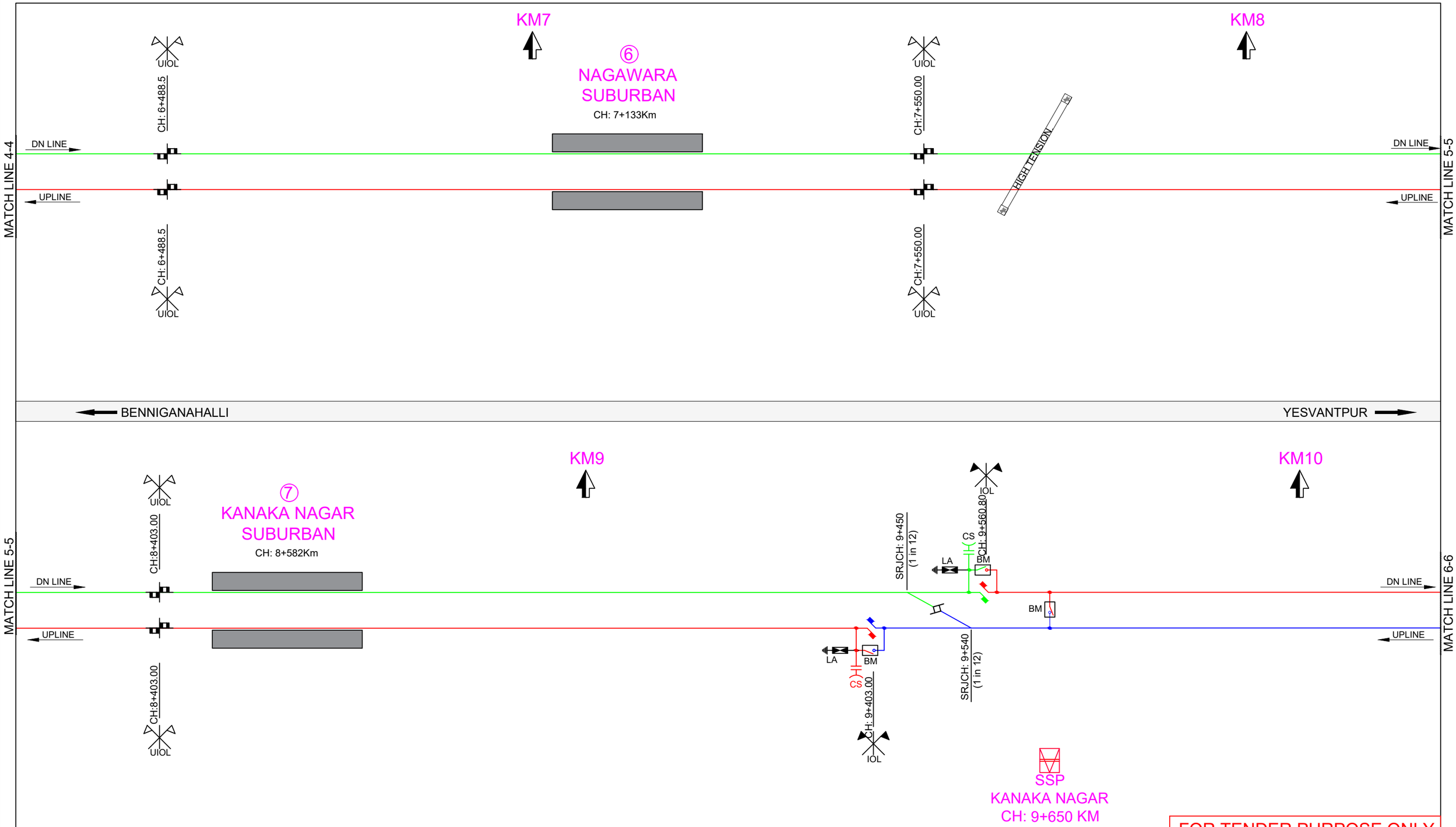
Corridor-2 (Benniganahalli -Soladevanahalli)

Drawing Title: MAIN LINE 25KV OHE SECTIONING SCHEMATIC DIAGRAM (Sheet 4 of 10)

Project Stage:

Paper Size: A3 | Discipline: Power Supply & Traction System | Date: 31/05/2024 | Scale: NTS

Drawing no.: KRDD01-TDR-CR02-GEN-OCS-SEC-00002-R1 | Revision: R1



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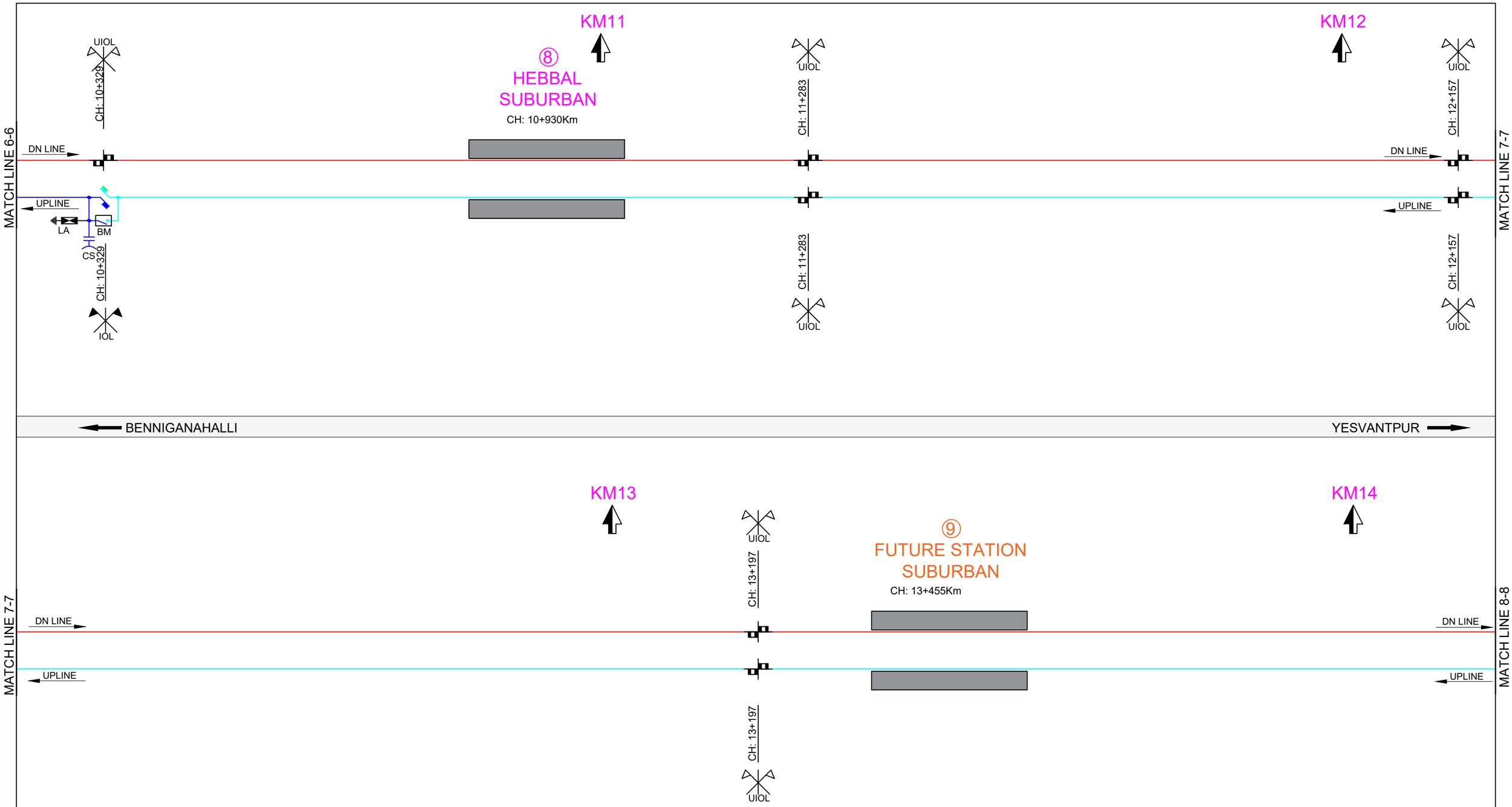
Drawing Title: MAIN LINE 25KV OHE SECTIONING SCHEMATIC DIAGRAM (Sheet 5 of 10)

Project Stage:

Paper Size: A3 | Discipline: Power Supply & Traction System | Date: 31/05/2024 | Scale: NTS

Drawing no.: KRDD01-TDR-CR02-GEN-OCS-SEC-00002-R1 | Revision: R1



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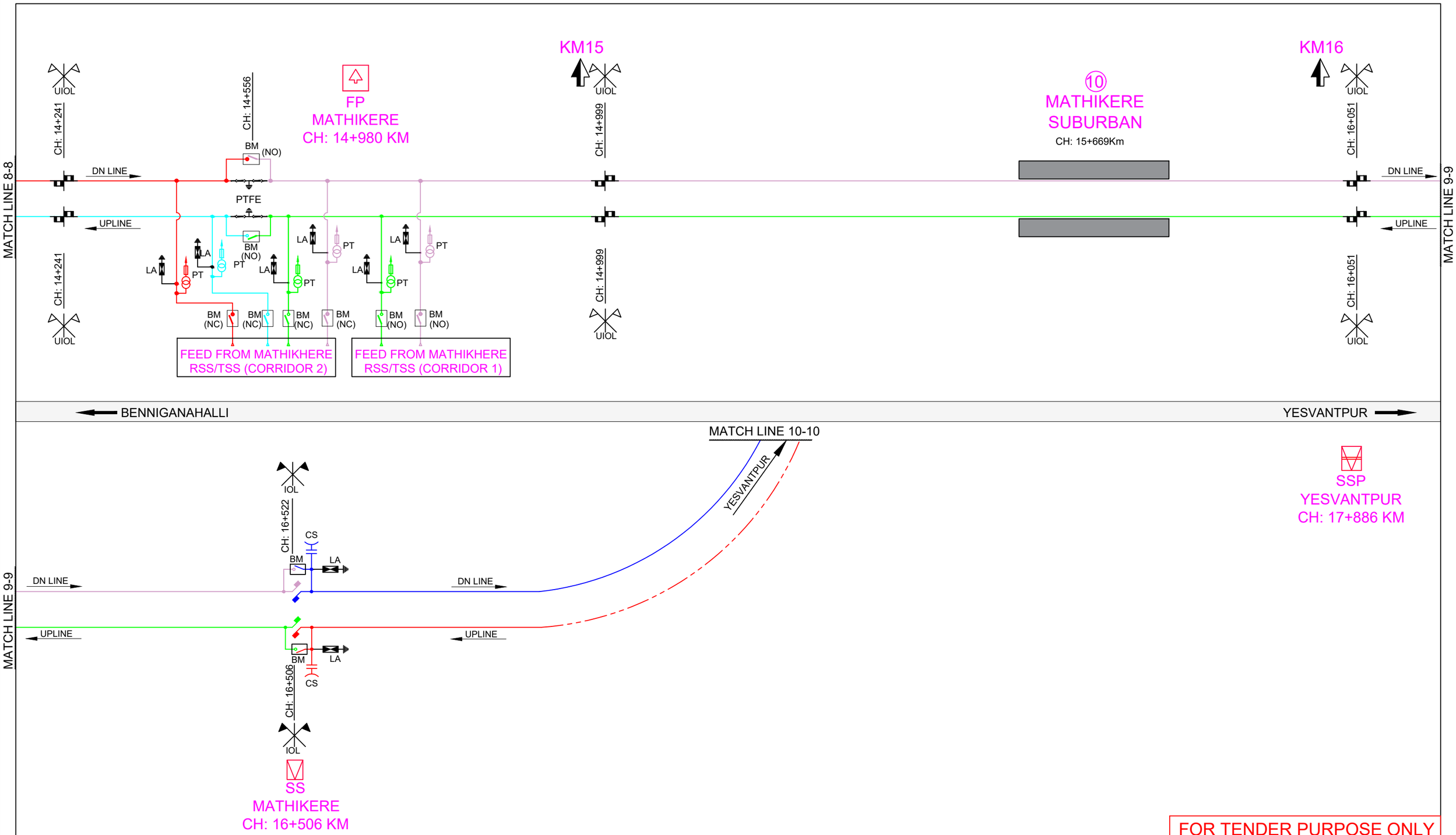
Drawing Title: MAIN LINE 25KV OHE SECTIONING SCHEMATIC DIAGRAM (Sheet 6 of 10)

Project Stage:

Paper Size:	Discipline:	Date:	Scale:
A3	Power Supply & Traction System	31/05/2024	NTS

Drawing no.: KRDD01-TDR-CR02-GEN-OCS-SEC-00002-R1

Revision: R1



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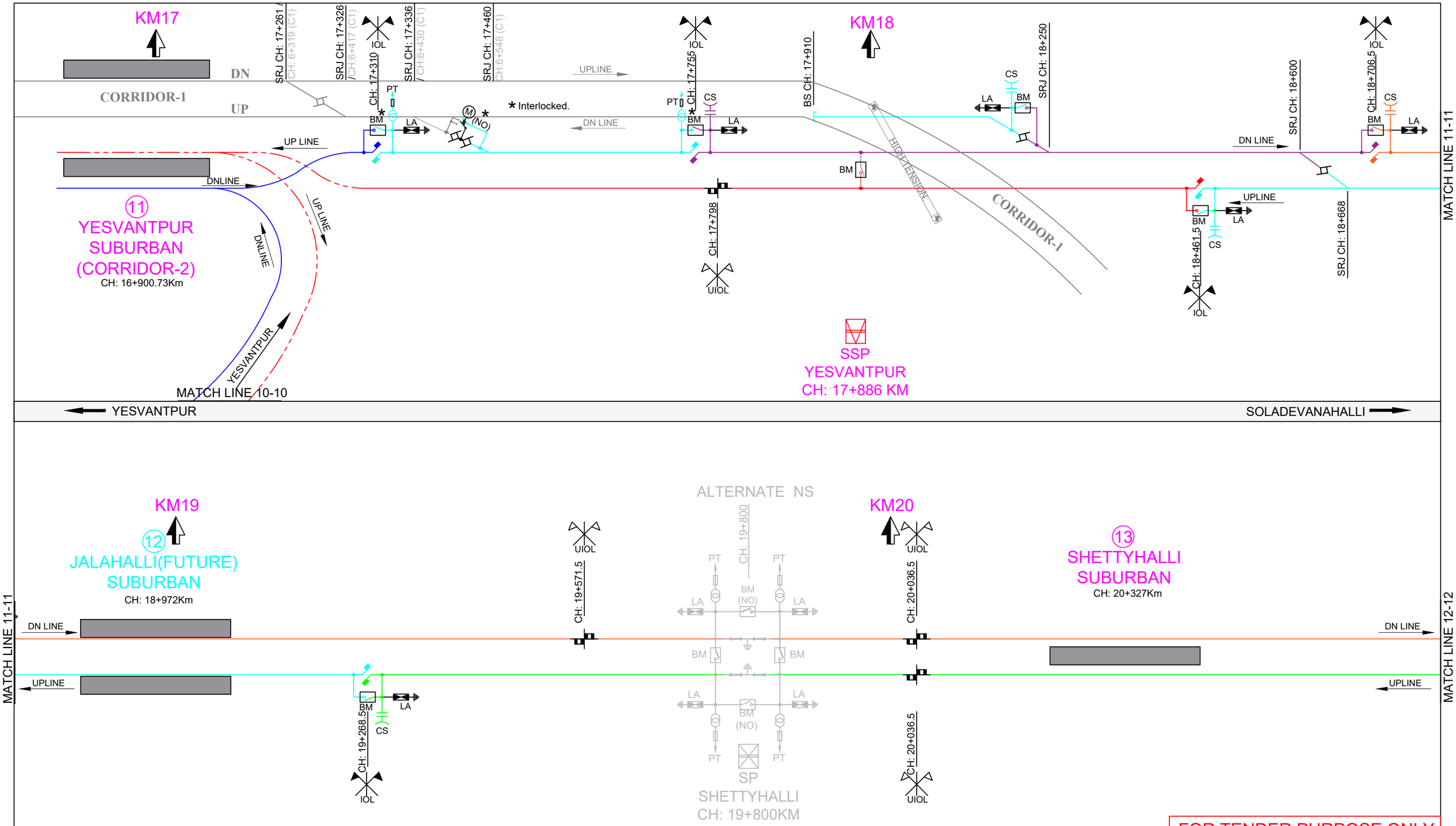
Drawing Title: MAIN LINE 25KV OHE SECTIONING SCHEMATIC DIAGRAM (Sheet 7 of 10)

Project Stage:

Paper Size:	Discipline:	Date:	Scale:
A3	Power Supply & Traction System	31/05/2024	NTS

Drawing no.: KRDD01-TDR-CR02-GEN-OCS-SEC-00002-R1

Revision: R1



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R1	29-01-2025	Modified as per GC/KRIDE Comments.	KD / KMB	CK / NP	RK / SK
R0	31-05-2024	FIRST SUBMISSION	IA / SB	CK / NP	RK / SK

K RIDE

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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 MVA CONSULTING (INDIA) PVT. LTD.,
10th and 11th Floor, Tower-B, 12/3, Vatika Mindscapes, Mathura Road, NH2, Sector 27D, Faridabad, Haryana 121013

Drawn		Checked:		Approved:	
I. Alam		D. Kalyan		R. Kapoor	
S. Bhati		N. Parmar		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)

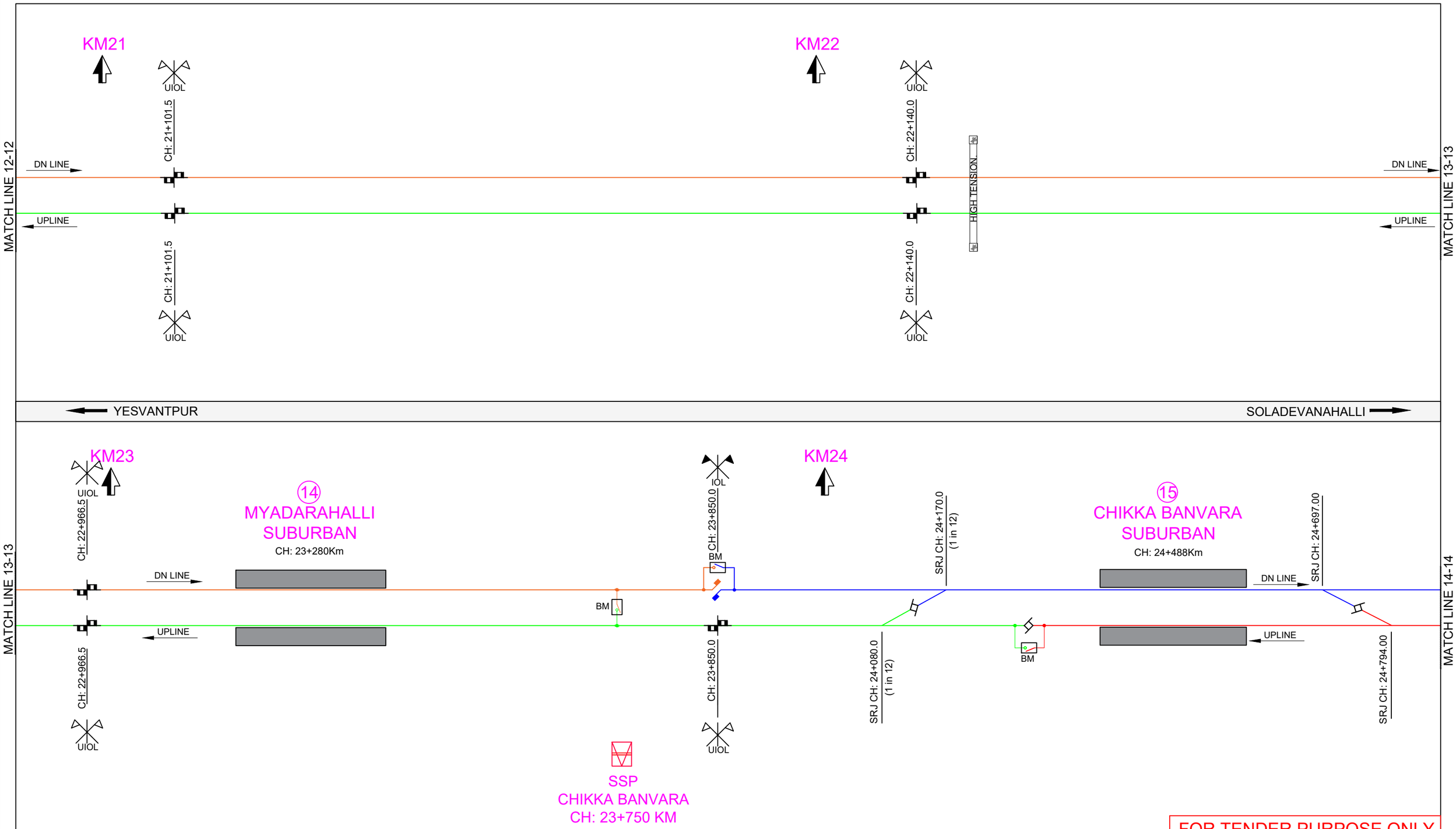
Corridor-2 (Benniganahalli -Soladevanahalli)

Drawing Title: MAIN LINE 25KV OHE SECTIONING SCHEMATIC DIAGRAM (Sheet 8 of 10)

Project Stage:

Paper Size: A3 | Discipline: Power Supply & Traction System | Date: 31/05/2024 | Scale: NTS

Drawing no.: KRDD01-TDR-CR02-GEN-OCS-SEC-00002-R1 | Revision: R1



FOR TENDER PURPOSE ONLY

NOTES:

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2. ALL DIMENSIONS ARE TO BE READ AND NOT TO BE MEASURED.
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Corridor-2 (Benniganahalli -Soladevanahalli)

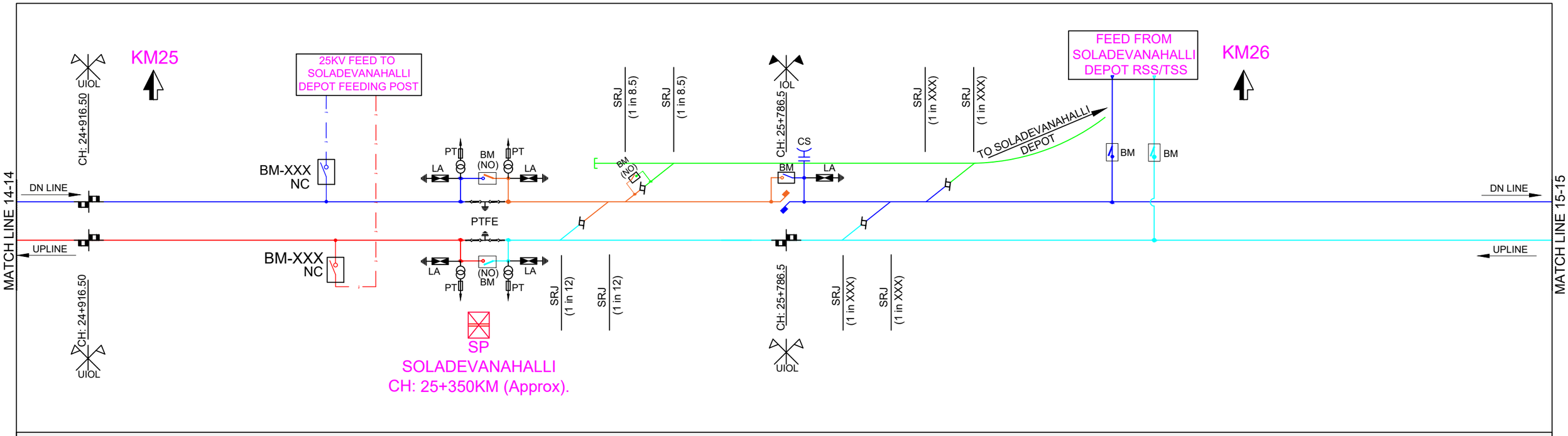
Drawing Title: MAIN LINE 25KV OHE SECTIONING SCHEMATIC DIAGRAM (Sheet 9 of 10)

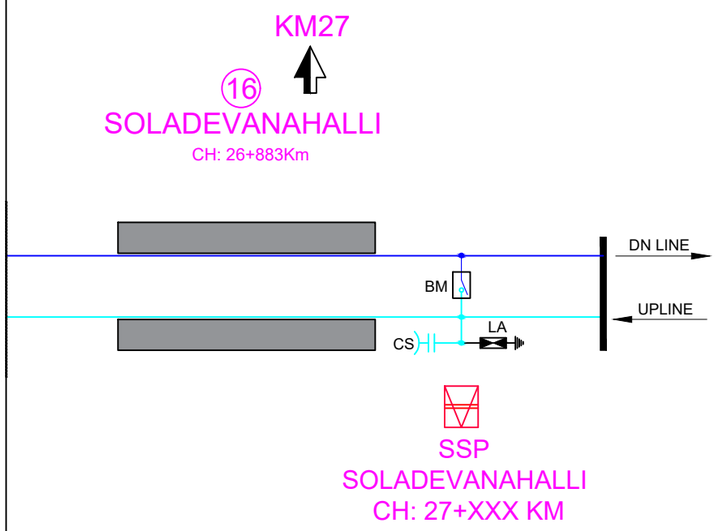
Project Stage:

Paper Size:	Discipline:	Date:	Scale:
A3	Power Supply & Traction System	31/05/2024	NTS

Drawing no.: KRDD01-TDR-CR02-GEN-OCS-SEC-00002-R1

Revision: R1





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Corridor-2 (Benniganahalli -Soladevanahalli)

Drawing Title: MAIN LINE 25KV OHE SECTIONING SCHEMATIC DIAGRAM (Sheet 10 of 10)

Project Stage:

Paper Size:	Discipline:	Date:	Scale:
A3	Power Supply & Traction System	31/05/2024	NTS

Drawing no.: KRDD01-TDR-CR02-GEN-OCS-SEC-00002-R1

Revision: R1