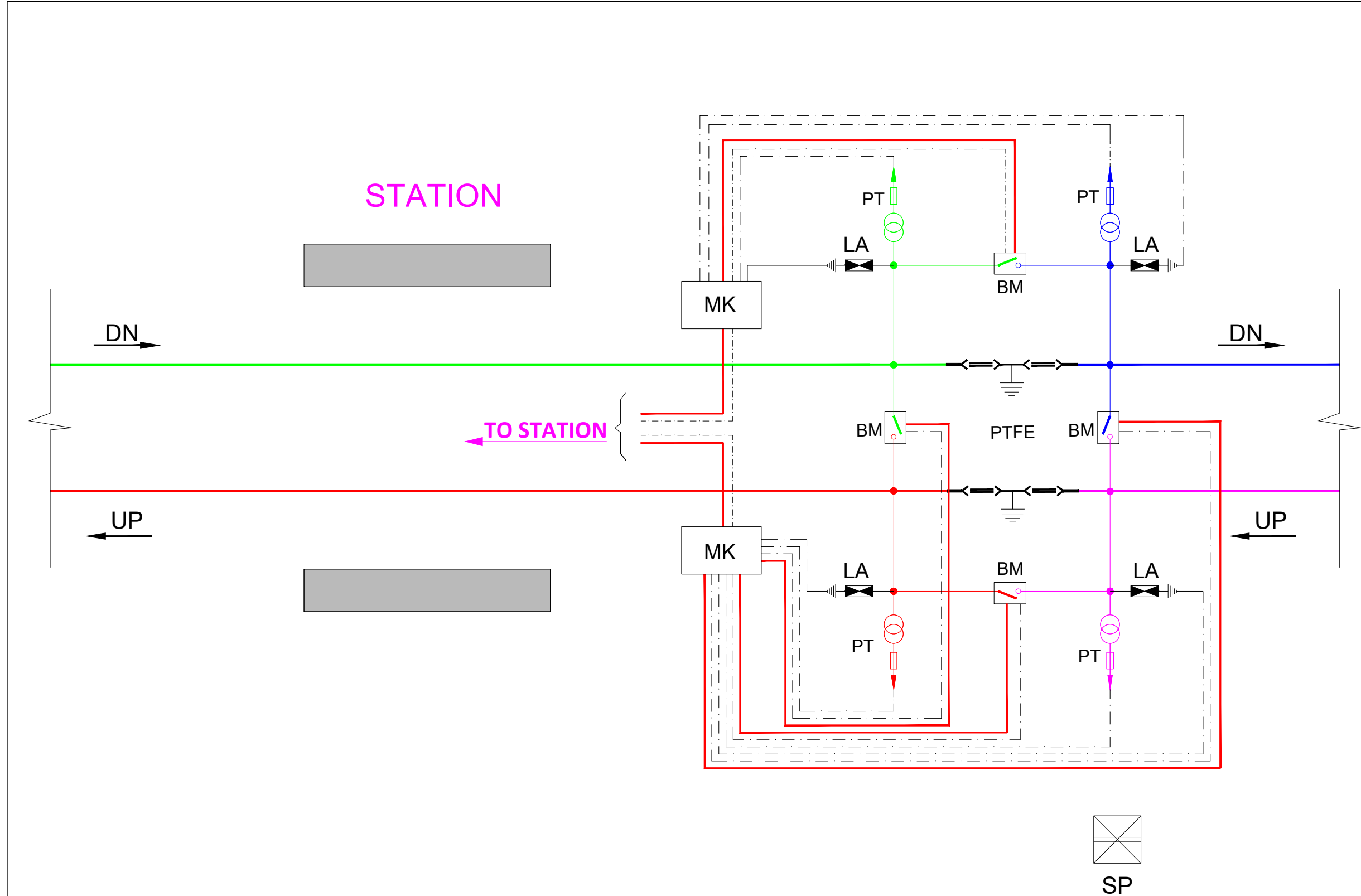




NOTES:

1. ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE SPECIFIED.
2. ALL DIMENSIONS ARE TO BE READ AND NOT TO BE MEASURED.
3. THIS IS JUST TYPICAL ARRANGEMENT AND MAY CHANGE DURING DETAIL DESIGN STAGE AS PER VENDOR DRAWINGS.
4. FROM SAFETY POINT OF VIEW, MESH FRAME SHOULD BE PROVIDED AT COUNTRY SIDE OF POTENTIAL TRANSFORMER & LIGHTNING ARRESTER.
5. LIGHTNING ARRESTERS HAVE BEEN PROPOSED ALONG WITH POTENTIAL TRANSFORMER.
6. ALL EQUIPMENTS WILL BE SUPPORTED ON B200 MAST.
7. JUMPER CONNECTIONS FROM EQUIPMENT TO OHE SHALL BE ESTABLISHED WITH ADEQUATE NUMBER OF PEDESTAL INSULATORS TO ENSURE SUFFICIENT CLEARANCE FROM OHE.
8. LENGTH OF THE ALL JUMPERS IS DIRECTLY RELATED TO THE NORMAL SET-UP TEMPERATURE OF THE PARTICULAR EQUIPMENT AND THE JUMPER LOOP MUST HAVE SUFFICIENT SLACK TO ALLOW FOR MAXIMUM DIFFERENTIAL MOVEMENT BETWEEN CATENARIES OR THE CONNECTING WIRES.
9. ALL INSULATORS SHALL HAVE A MINIMUM CREEPAGE DISTANCE OF 1600MM.
10. EARTHING OF LA SHALL BE DONE BY CONNECTING TO TWO DIFFERENT EARTH PITS (AT GRADE)/PIERS (VIADUCT).
11. ALL TENDER DRAWINGS ARE INDICATIVE ONLY.

LEGEND

| S. No. | SYMBOLS | DESCRIPTION                |
|--------|---------|----------------------------|
| 1.     |         | 25KV POTENTIAL TRANSFORMER |
| 2.     |         | INTERRUPTER                |
| 3.     |         | SECTION INSULATOR          |
| 4.     |         | CONTROL CABLES             |
| 5.     |         | LT POWER SUPPLY CABLES     |
| 6.     |         | LIGHTNING ARRESTER (LA)    |
| 7.     |         | PTFE                       |

LEGEND

- ① 25KV INTERRUPTER
- ② 25KV POTENTIAL TRANSFORMER
- ③ 25KV SECTION INSULATOR
- ④ 25KV POST INSULATOR WITHOUT OUTRIGGER
- ⑤ 25KV POST INSULATOR WITH OUTRIGGER
- ⑥ 25KV CUT IN INSULATOR
- ⑦ 25 KV LIGHTNING ARRESTER
- ⑧ 75 SQ MM Cu. JUMPER WIRE
- ⑨ 164 SQ MM Cu. JUMPER WIRE
- ⑩ DELETED
- ⑪ SAFETY SCREEN PANEL
- ⑫ PTFE TYPE NEUTRAL SECTION
- ⑬ 145 SQ MM SLACK/CROSS FEEDER

FOR TENDER PURPOSE ONLY

NOTES:

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3. ANY DISCREPANCY IN THE DRAWING MUST BE BROUGHT TO THE NOTICE OF THE DESIGNER.
4. INTERFACE WITH OTHER DESIGN DISCIPLINE WILL BE DONE AS PER AVAILABILITY OF DETAILS.

| REV | DATE       | DESCRIPTION                    | Originator | Checked | Approved |
|-----|------------|--------------------------------|------------|---------|----------|
| R1  | 02-09-2024 | Revised as per K-RIDE comments | KD         | CK / NP | RK / SK  |
| R0  | 13-08-2024 | FIRST SUBMISSION               | DK / SB    | CK / NP | RK / SK  |

K RIDE

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

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**AECOM** wsp  
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**

SYSTRAMVA CONSULTING (INDIA) PVT. LTD.  
10th and 11th Floor, Tower-B, 12/3, Vatika  
Mindscapes, Mathura Road, NH2, Sector 27D,  
Faridabad, Haryana 121015

| Drawn                | Checked:               | Approved:             |
|----------------------|------------------------|-----------------------|
| D. Kumar<br>S. Bhatl | D. Kalyan<br>N. Parmar | R. Kapoor<br>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)

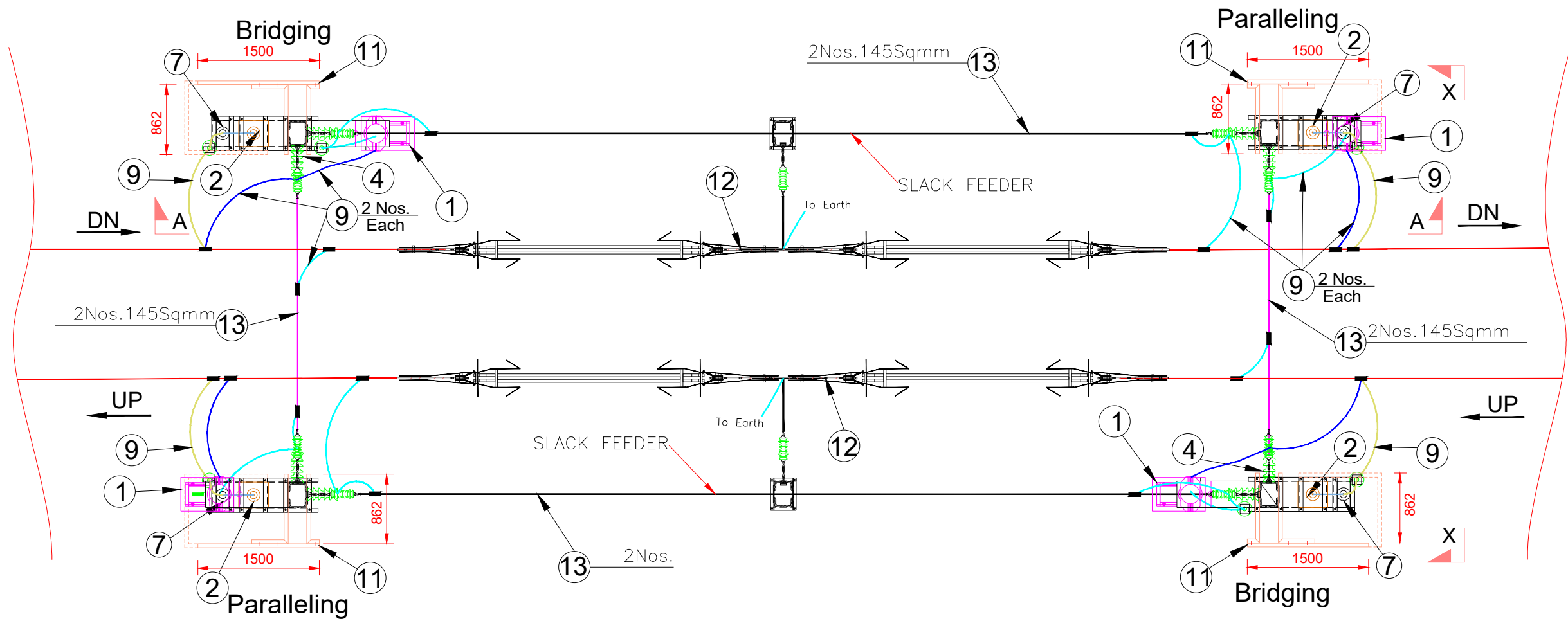
CORRIDOR-2 & 4

Drawing Title:  
SECTIONING AND PARALLELING POST (SP)  
TYPICAL ELECTRICAL SCHEMATIC DIAGRAM  
(SHEET-1 OF 4)

Project Stage:

Tender Drawing

| Paper Size:  | Discipline:                      | Date:      | Scale: |
|--------------|----------------------------------|------------|--------|
| A3           | Power Supply & Traction System   | 13/08/2024 | NTS    |
| Drawing no.: | KRDD01-TDR-GEN-GEN-OCS-DWG-00025 |            |        |
|              |                                  |            | R1     |



| LEGEND |         |                            |
|--------|---------|----------------------------|
| S. No. | SYMBOLS | DESCRIPTION                |
| 1.     |         | 25KV POTENTIAL TRANSFORMER |
| 2.     |         | INTERRUPTER                |
| 3.     |         | SECTION INSULATOR          |
| 4.     |         | CONTROL CABLES             |
| 5.     |         | LT POWER SUPPLY CABLES     |
| 6.     |         | LIGHTNING ARRESTOR (LA)    |
| 7.     |         | PTFE                       |

| LEGEND |                                       |  |
|--------|---------------------------------------|--|
| ①      | 25KV INTERRUPTER                      |  |
| ②      | 25KV POTENTIAL TRANSFORMER            |  |
| ③      | 25KV SECTION INSULATOR                |  |
| ④      | 25KV POST INSULATOR WITHOUT OUTRIGGER |  |
| ⑤      | 25KV POST INSULATOR WITH OUTRIGGER    |  |
| ⑥      | 25KV CUT IN INSULATOR                 |  |
| ⑦      | 25 KV LIGHTNING ARRESTER              |  |
| ⑧      | 75 SQ MM Cu. JUMPER WIRE              |  |
| ⑨      | 164 SQ MM Cu. JUMPER WIRE             |  |
| ⑩      | DELETED                               |  |
| ⑪      | SAFETY SCREEN PANEL                   |  |
| ⑫      | PTFE TYPE NEUTRAL SECTION             |  |
| ⑬      | 145 SQ MM SLACK/CROSS FEEDER          |  |

NOTES:

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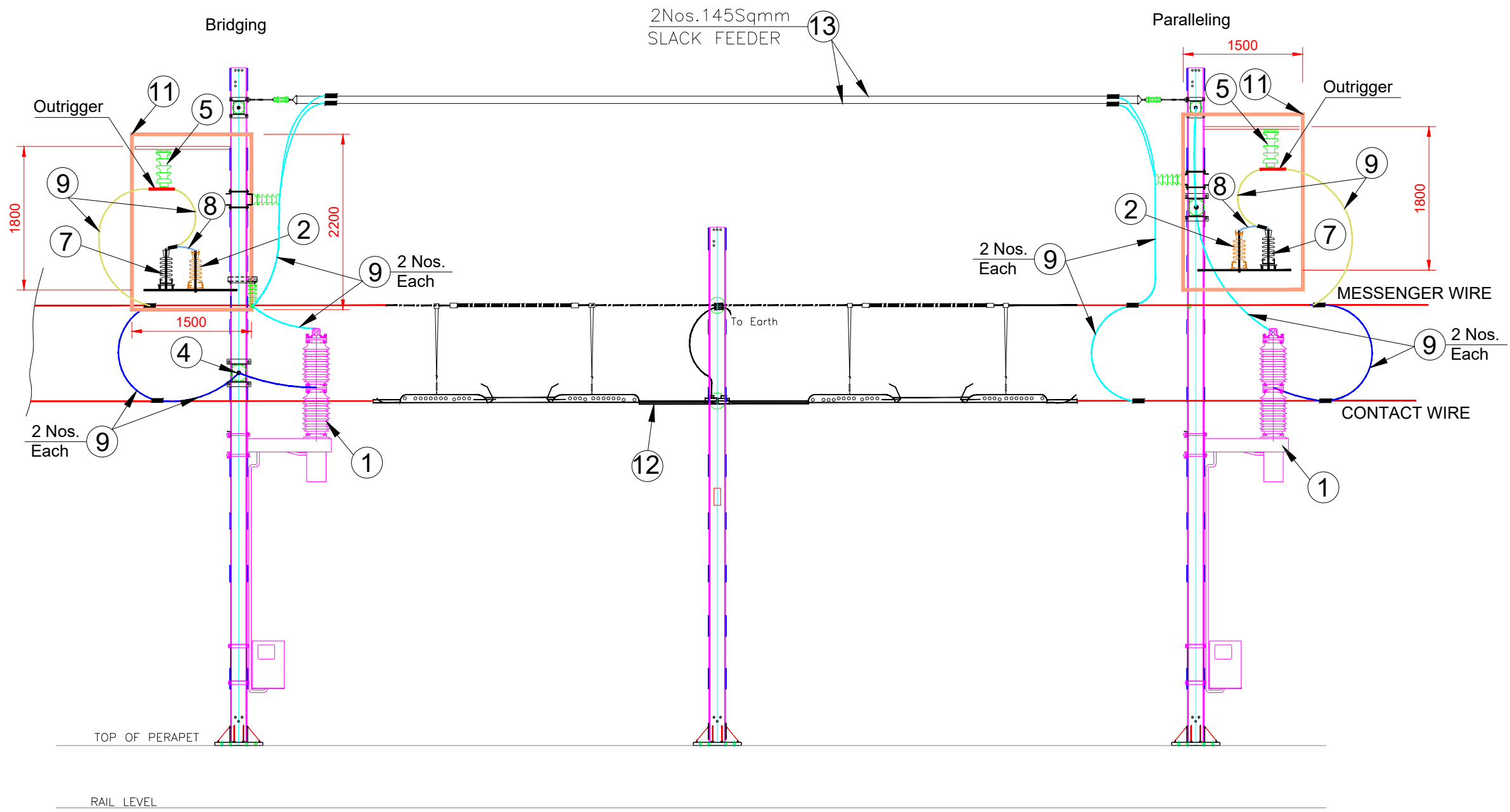
| REV | DATE       | DESCRIPTION                    | Originator | Checked | Approved |
|-----|------------|--------------------------------|------------|---------|----------|
| R1  | 02-09-2024 | Revised as per K-RIDE comments | KD         | CK / NP | RK / SK  |
| R0  | 13-08-2024 | FIRST SUBMISSION               | DK / SB    | CK / NP | RK / SK  |

| K RIDE           |                       |                   |
|------------------|-----------------------|-------------------|
| DM / ELE / KRIDE | Sr. DGM / ELE / KRIDE | AGM / ELE / KRIDE |

|                                                                                                           |                                                                                                                                                                 |                  |
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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      |                                                                                                                                                                 |                  |
|                                                                                                           | SYSTRAM/A CONSULTING (INDIA) PVT. LTD.<br>10th and 11th Floor, Tower-B, 12/3, Vatika<br>Mindscapes, Mathura Road, NH2, Sector 27D,<br>Faridabad, Haryana 121015 |                  |
| Drawn                                                                                                     | Checked:                                                                                                                                                        | Approved:        |
| D. Kumar                                                                                                  | D. Kalyan                                                                                                                                                       | R. Kapoor        |
| S. Bhatl                                                                                                  | N. Parmar                                                                                                                                                       | S. Kumar         |

|                                                                                                                                                                 |                                                                   |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------|
| Client:                                                                                                                                                         |                                                                   |
|                                                                            | RAIL INFRASTRUCTURE<br>DEVELOPMENT COMPANY<br>(KARNATAKA) LIMITED |
| Project Title: Bengaluru Suburban Rail Project (BSRP)<br>(Detailed Design Consultant for design of Traction & Auxiliary Power Supply and Distribution for BSRP) |                                                                   |
| CORRIDOR-2 & 4                                                                                                                                                  |                                                                   |
| Drawing Title:                                                                                                                                                  | Project Stage:                                                    |
| SECTIONING AND PARALLELING POST (SP)<br>PLAN VIEW AT UP AND DOWN LINE<br>(SHEET-2 OF 4)                                                                         | Tender Drawing                                                    |
| Paper Size: A3                                                                                                                                                  | Discipline: Power Supply & Traction System                        |
| Date: 13/08/2024                                                                                                                                                | Scale: NTS                                                        |
| Drawing no.: KRDD01-TDR-GEN-GEN-OCS-DWG-00025                                                                                                                   | Revision: R1                                                      |

FOR TENDER PURPOSE ONLY



VIEW AT 'A-A'  
(DN LINE)

| LEGEND |         |                            |
|--------|---------|----------------------------|
| S. No. | SYMBOLS | DESCRIPTION                |
| 1.     |         | 25kV POTENTIAL TRANSFORMER |
| 2.     |         | INTERRUPTER                |
| 3.     |         | SECTION INSULATOR          |
| 4.     |         | CONTROL CABLES             |
| 5.     |         | LT POWER SUPPLY CABLES     |
| 6.     |         | LIGHTNING ARRESTOR (LA)    |
| 7.     |         | PTFE                       |

| LEGEND |                                       |
|--------|---------------------------------------|
| ①      | 25KV INTERRUPTER                      |
| ②      | 25KV POTENTIAL TRANSFORMER            |
| ③      | 25KV SECTION INSULATOR                |
| ④      | 25KV POST INSULATOR WITHOUT OUTRIGGER |
| ⑤      | 25KV POST INSULATOR WITH OUTRIGGER    |
| ⑥      | 25KV CUT IN INSULATOR                 |
| ⑦      | 25 KV LIGHTNING ARRESTER              |
| ⑧      | 75 SQ MM Cu. JUMPER WIRE              |
| ⑨      | 164 SQ MM Cu. JUMPER WIRE             |
| ⑩      | DELETED                               |
| ⑪      | SAFETY SCREEN PANEL                   |
| ⑫      | PTFE TYPE NEUTRAL SECTION             |
| ⑬      | 145 SQ MM SLACK/CROSS FEEDER          |

NOTES:

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|     |            |                                |            |         |          |
|-----|------------|--------------------------------|------------|---------|----------|
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| R0  | 13-08-2024 | FIRST SUBMISSION               | DK / SB    | CK / NP | RK / SK  |

**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.

**egis AECOM WSP**

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

**SYSTRAM**   SYSTRAM/VA CONSULTING (INDIA) PVT. LTD.

10th and 11th Floor, Tower-B, 12/3, Vatika Mindspace, Mathura Road, NH2, Sector 27D, Faridabad, Haryana 121015

Drawn: D. Kumar, S. Bhatl   Checked: D. Kalyan, N. Parmar   Approved: R. Kapoor, S. Kumar

Client: **RAIL INFRASTRUCTURE DEVELOPMENT COMPANY (KARNATAKA) LIMITED**

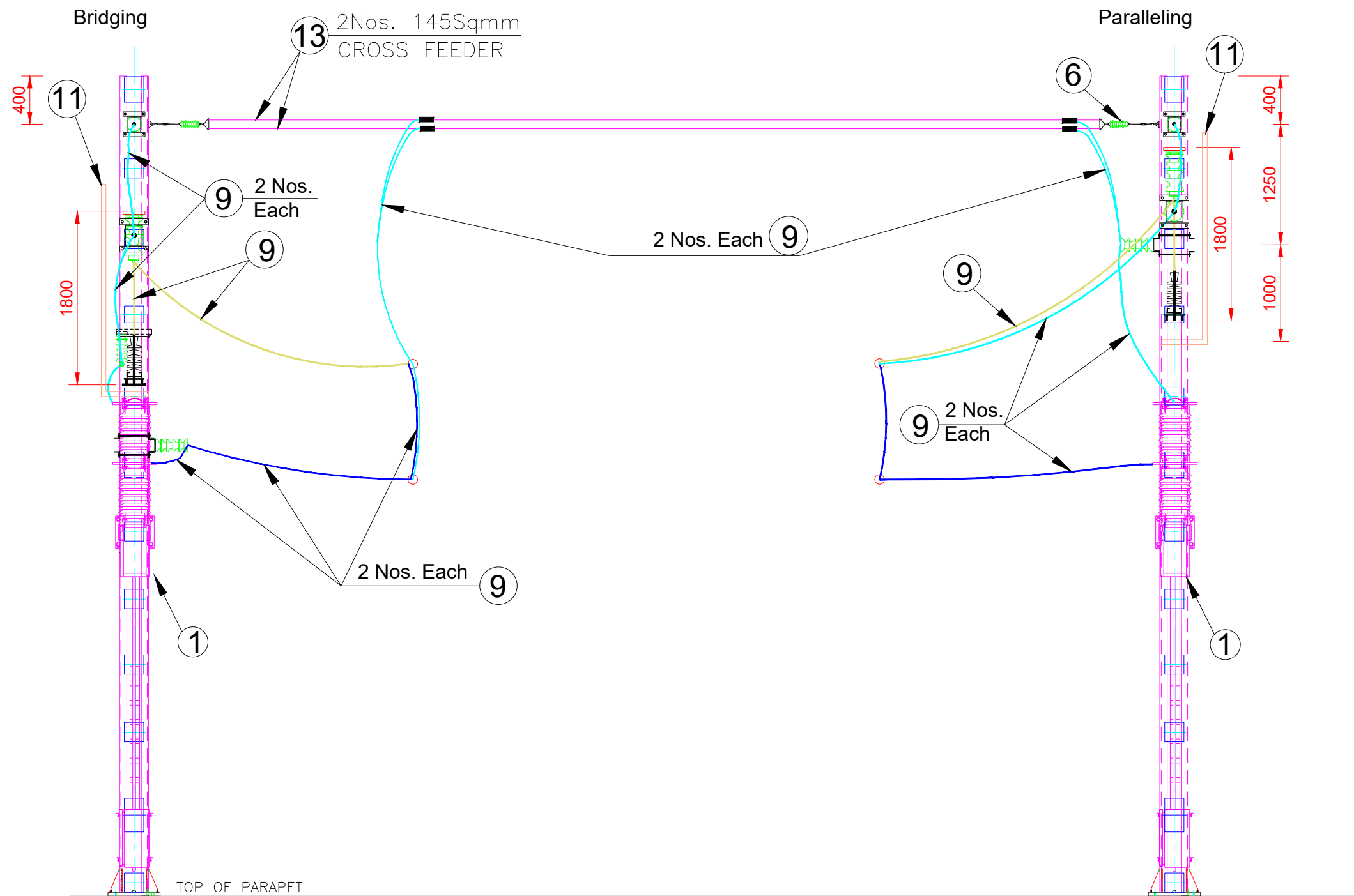
Project Title: Bengaluru Suburban Rail Project (BSRP)  
(Detailed Design Consultant for design of Traction & Auxiliary Power Supply and Distribution for BSRP)

CORRIDOR-2 & 4

Drawing Title: SECTIONING AND PARALLELING POST (SP)  
ELEVATION VIEW AT DN LINE  
(SHEET-3 OF 4)

Paper Size: A3   Discipline: Power Supply & Traction System   Date: 13/08/2024   Scale: NTS

Drawing no.: KRDD01-TDR-GEN-GEN-OCS-DWG-00025   Revision: R1



| LEGEND |         |                            |
|--------|---------|----------------------------|
| S. No. | SYMBOLS | DESCRIPTION                |
| 1.     |         | 25kV POTENTIAL TRANSFORMER |
| 2.     |         | INTERRUPTER                |
| 3.     |         | SECTION INSULATOR          |
| 4.     |         | CONTROL CABLES             |
| 5.     |         | LT POWER SUPPLY CABLES     |
| 6.     |         | LIGHTNING ARRESTOR (LA)    |
| 7.     |         | PTFE                       |

| LEGEND |                                       |  |
|--------|---------------------------------------|--|
| ①      | 25KV INTERRUPTER                      |  |
| ②      | 25KV POTENTIAL TRANSFORMER            |  |
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**K RIDE**

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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

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Mindscapes, Mathura Road, NH2, Sector 27D,  
Faridabad, Haryana 121015

Drawn: D. Kumar, S. Bhati  
Checked: D. Kalyan, N. Parmar  
Approved: R. Kapoor, S. Kumar

|                                                                                                                                                                 |                                            |                                                             |            |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------|-------------------------------------------------------------|------------|
| Client: <b>K RIDE</b>                                                                                                                                           |                                            | RAIL INFRASTRUCTURE DEVELOPMENT COMPANY (KARNATAKA) LIMITED |            |
| Project Title: Bengaluru Suburban Rail Project (BSRP)<br>(Detailed Design Consultant for design of Traction & Auxiliary Power Supply and Distribution for BSRP) |                                            | CORRIDOR-2 & 4                                              |            |
| Drawing Title: SECTIONING AND PARALLELING POST (SP) CROSS SECTION AT UP & DOWN LINE (SHEET-4 OF 4)                                                              |                                            | Project Stage: Tender Drawing                               |            |
| Paper Size: A3                                                                                                                                                  | Discipline: Power Supply & Traction System | Date: 13/08/2024                                            | Scale: NTS |
| Drawing no.: KRDD01-TDR-GEN-GEN-OCS-DWG-00025                                                                                                                   | Revision: R1                               |                                                             |            |

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