

# Appendix III

## Joint Coordinates and Member Numbers of the Prestressed Concrete Bridge

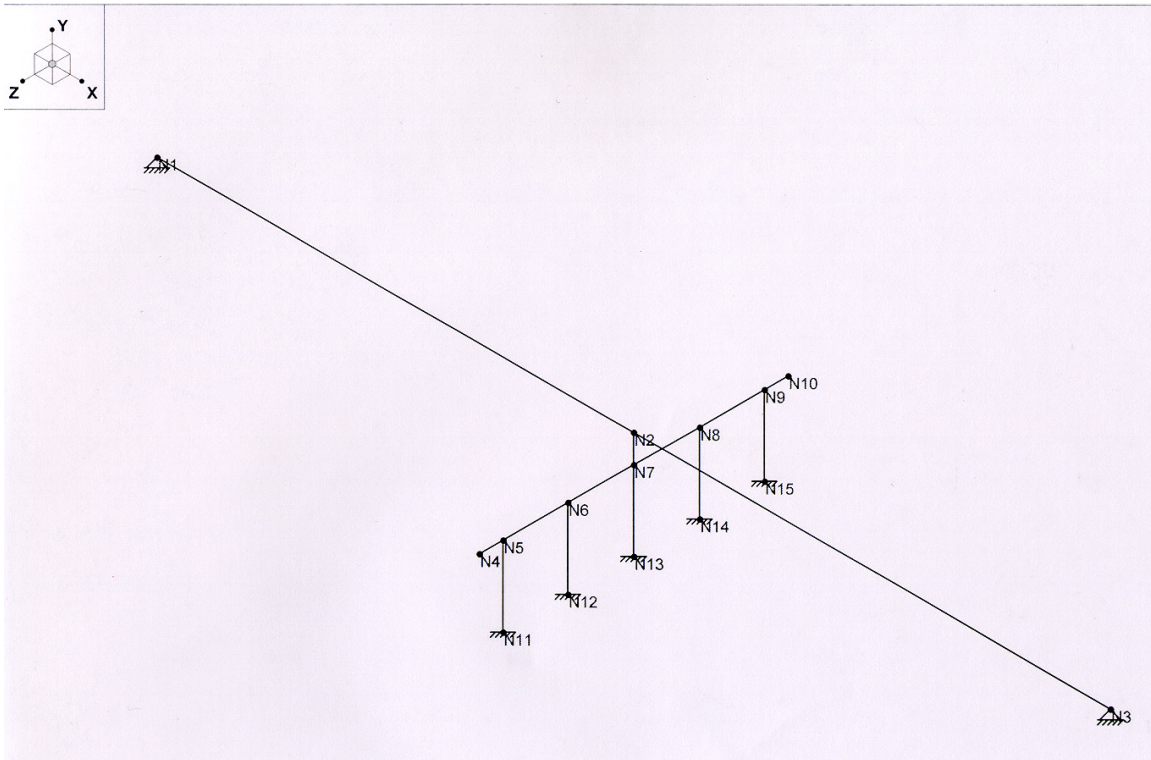


Figure III-1. The RISA 3D model of the prestressed concrete girder bridge.

Table III-1. The coordinates of the joints of the RISA 3D model of the prestressed concrete bridge, units-mm.

| Joint Label | X     | Y    | Z     |
|-------------|-------|------|-------|
| N1          | 0     | 8562 | 0     |
| N2          | 37900 | 8562 | 0     |
| N3          | 75800 | 8562 | 0     |
| N4          | 37900 | 6323 | 12300 |
| N5          | 37900 | 6323 | 10400 |
| N6          | 37900 | 6323 | 5200  |

|     |       |      |        |
|-----|-------|------|--------|
| N7  | 37900 | 6323 | 0      |
| N8  | 37900 | 6323 | -5200  |
| N9  | 37900 | 6323 | -10400 |
| N10 | 37900 | 6323 | -12300 |
| N11 | 37900 | 0    | 10400  |
| N12 | 37900 | 0    | 5200   |
| N13 | 37900 | 0    | 0      |
| N14 | 37900 | 0    | -5200  |
| N15 | 37900 | 0    | -10400 |

Table III-2. The member numbers of the RISA 3D model of the prestressed concrete bridge

| Member Number | Type           | Begin Joint | End Joint |
|---------------|----------------|-------------|-----------|
| M1            | Superstructure | N1          | N2        |
| M2            | Superstructure | N2          | N3        |
| M3            | Rigid Link     | N2          | N7        |
| M4            | Pier Cap Beam  | N4          | N5        |
| M5            | Pier Cap Beam  | N5          | N6        |
| M6            | Pier Cap Beam  | N6          | N7        |
| M7            | Pier Cap Beam  | N7          | N8        |
| M8            | Pier Cap Beam  | N8          | N9        |
| M9            | Pier Cap Beam  | N9          | N10       |
| M10           | Column         | N5          | N11       |
| M11           | Column         | N6          | N12       |
| M12           | Column         | N7          | N13       |
| M13           | Column         | N8          | N14       |
| M14           | Column         | N9          | N15       |