



| LAYDOWN DIMENSIONS | | | | | | | | |
|----------------------|--------|-------|--------|-------|-------|--------|--------|--------|
| UNITS: FEET, DEGREES | | | | | | | | |
| RIB SECTION | C1 | θ1 | C2 | θ2 | A | B1 | B2 | L |
| RS1 to RS3 | 29.020 | 4.048 | 51.583 | 2.276 | 2.049 | 28.948 | 51.542 | 80.490 |
| RS2 to RS4 | 51.583 | 3.623 | 38.364 | 4.874 | 3.260 | 51.480 | 38.225 | 89.705 |
| RS3 to RS5 | 38.364 | 5.455 | 48.537 | 4.309 | 3.647 | 38.190 | 48.399 | 86.589 |
| RS4 to RS6 | 48.537 | 4.228 | 34.467 | 5.959 | 3.579 | 48.405 | 34.281 | 82.686 |
| RS5 to RS7 | 34.467 | 5.959 | 48.537 | 4.228 | 3.578 | 34.281 | 48.405 | 82.686 |
| RS6 to RS8 | 48.537 | 4.309 | 38.364 | 5.455 | 3.647 | 48.399 | 38.190 | 86.589 |
| RS7 to RS9 | 38.364 | 4.874 | 51.583 | 3.623 | 3.260 | 38.225 | 51.480 | 89.705 |
| RS8 to RS10 | 51.583 | 2.278 | 29.020 | 4.052 | 2.051 | 51.542 | 28.948 | 80.490 |

Fabrication Laydown:

1. The contractor shall verify deflections, camber, and laydown dimensions shown on the plans.
2. Arch ribs shall be cambered as shown on Sheet 29 of 79.
3. Tie Girders shall be cambered as shown on Sheet 29 of 79.
4. Rib lengths shall be verified and field splices fitted by progressive laydown of three rib sections. The table shows dimensions for any two adjacent sections.
5. Tie Girder lengths shall be verified and field splices fitted by progressive laydown of three tie girder sections.
6. See Special Provisions for additional requirements.

Erection Procedure Limitations:

1. If existing or proposed foundations are used to support falsework, an erection analysis shall be submitted to the Engineer for review.
2. If erection towers are used, potential obstacles shall be identified by on-site inspection and resolved prior to bid.
3. The contractor must submit his own detailed erection procedures for approval. The ribs and tie girders must be erected and repositioned if needed so that the final shape and location will be as shown in these plans. The erection analysis shall include erection forces on Pier 1 and Pier 2 and an analysis of these same piers.
4. Erection of Floor system shall follow procedure described on this sheet.
5. Erect hangers and deck structural steel symmetrically so as to not lock-in arch distortions.
6. Provisions shall be made so that the expansion bearings will be in their final (neutral) position as indicated on the bearing sheets after erection is complete.
7. See Special Provisions for additional requirements.

Erection Procedure for Floor System:

1. Erect floorbeams and make connection to tie girder.
2. Erect stringers and fully bolt all splice plates for the fixed connections.
3. For the stringer slotted connection plates, all bolts shall be tightened to a "finger tight" condition only. Any bolts tightened to more than "finger tight" shall be loosened prior to placing any deck concrete.
4. Deck concrete for pours 1 thru 8 shall be placed in the order shown on sheet 4 of 79.
5. After deck concrete for pours 1 thru 8 has achieved design strength, all bolts in the stringer slotted connection shall be fully tightened.
6. Deck concrete for pours 9 thru 15 shall be placed in the order shown on sheet 4 of 79.
7. See Special Provisions for additional requirements.

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| | |
|------------------------------|-----------|
| DESIGNED - PA, JDJ, BPD, CJW | REVISED - |
| DRAWN - GLD | REVISED - |
| CHECKED - RJK | REVISED - |
| DATE - 02/04/2011 | REVISED - |

**CITY OF ROCKFORD
MORGAN STREET BRIDGE**

**ERECTION SEQUENCE
STRUCTURE NO. 101-6108**

SCALE: SHEET NO. 3 OF 79 SHEETS STA. 47+00.74 TO STA. 52+63.50

| F.A.U. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|--|----------------|-----------|--------------------|-----------|
| 5077 | 99-00493-00-BR | WINNEBAGO | 253 | 129 |
| | | | CONTRACT NO. 85529 | |
| FED. ROAD DIST. NO. 2 ILLINOIS FED. AID PROJECT BRM-509965 | | | | |