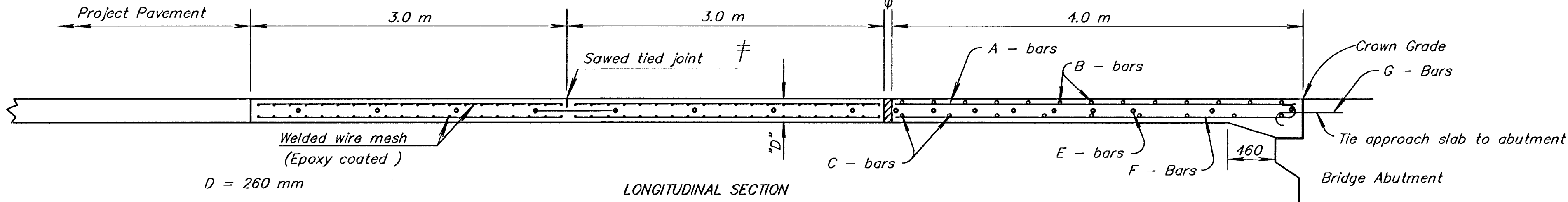


| FHWA REGION NO. | STATE  | PROJECT NO. | YEAR | SHEET NO. | TOTAL SHEETS |
|-----------------|--------|-------------|------|-----------|--------------|
| 7               | KANSAS | 87N-0078-01 | 1997 | 5         | 33           |



- ⌀ Expansion joint. See Bridge Construction Layout Sheet for width, Standard Drawing RD662 SI for details.
- ≠ Contractor has the option of substituting a Tied Keyed Construction Joint.

#### GENERAL NOTE

Special Concrete Bridge Approach shall be paid for as m<sup>2</sup> of "Concrete Pavement (260 mm Unif.)(A.E.)" and includes all work and materials required to construct the approach slab as shown on this sheet.

All work and materials required for installation of expansion joints and pressure relief joints shall be subsidiary to this bid item.

All preformed joint material shall be installed perpendicular to pavement surface. Formed joints shall be edged with 6 mm radius tool for length of joint.

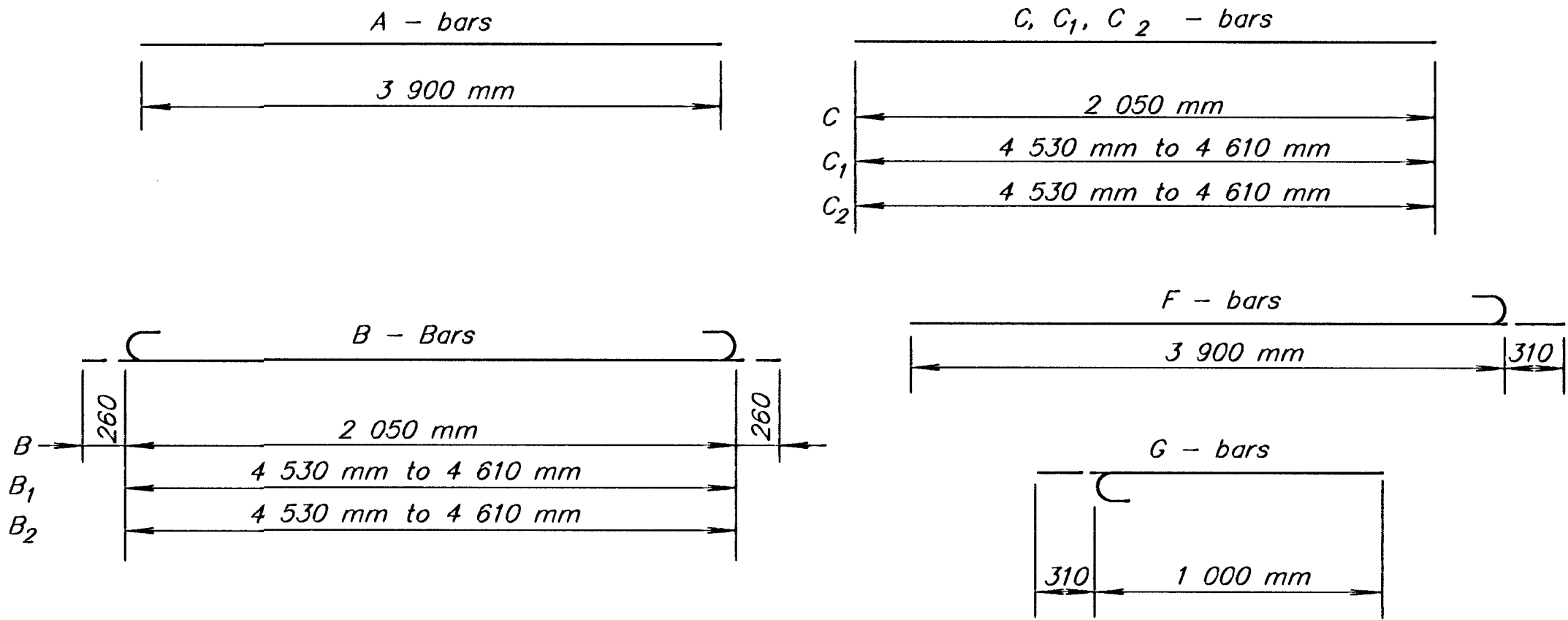
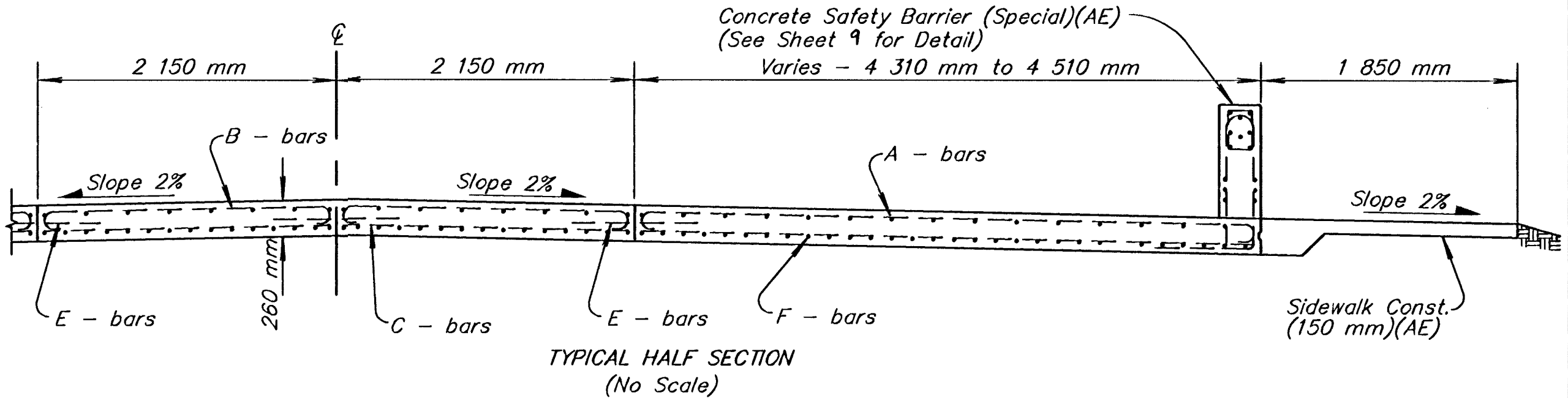
At the Contractor's option 13M x 900 mm tie bars @ 380 mm centers may be substituted for the 19M e bars at 750 mm centers.

All reinforcing steel shall be epoxy coated.

See Standard Drawing RD661 SI for details of joints, reinforcing mesh, and edge curb.

Clearance from the face of concrete for all reinforcing steel shall be 50 mm.

Standard reinforcing bar hooks in accordance with the latest ACI specifications shall be used throughout.



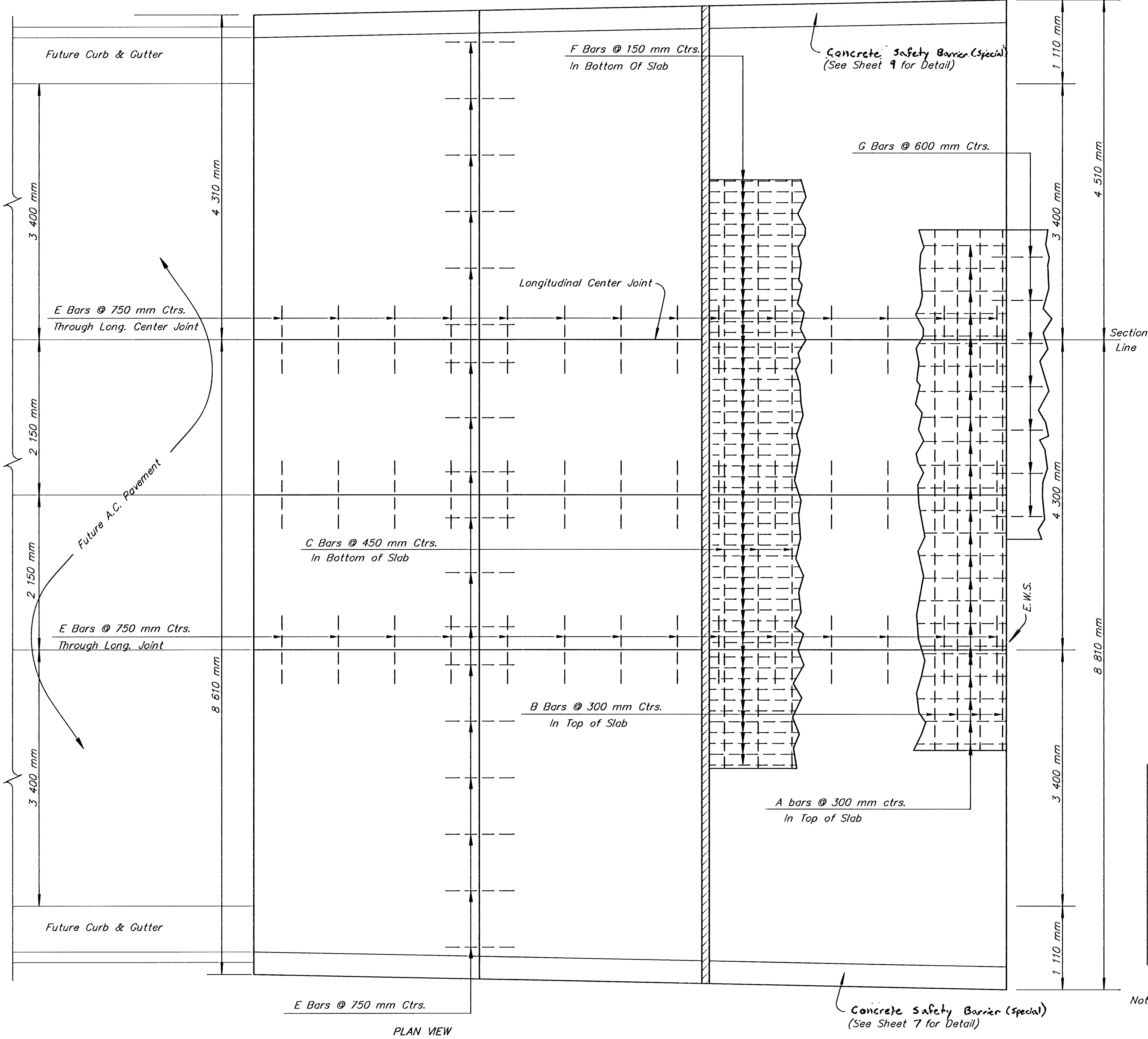
#### BENDING DIAGRAMS

Note: All dimensions are out to out on bars, unless noted otherwise.

| BILL OF MATERIALS                   |       |       |                |                |       |                |                |        |                |       |
|-------------------------------------|-------|-------|----------------|----------------|-------|----------------|----------------|--------|----------------|-------|
| Bar Schedule                        |       |       |                |                |       |                |                |        |                |       |
| Bar                                 | A     | B     | B <sub>1</sub> | B <sub>2</sub> | C     | C <sub>1</sub> | C <sub>2</sub> | E      | F              | G     |
| No.                                 | 44    | 28    | 14             | 14             | 18    | 9              | 9              | 60     | 90             | 22    |
| Size                                | 16M   | 16M   | 16M            | 16M            | 16M   | 16M            | 16M            | 19M    | 19M            | 19M   |
| Length                              | 3 900 | 2 570 | *              | *              | 2 050 | *              | *              | 900    | 4 210          | 1 310 |
| Welded Wire Mesh (Epoxy Coated)     |       |       |                |                |       |                |                | 77.6   | m <sup>2</sup> |       |
| Reinforcing Steel (Epoxy Coated)    |       |       |                |                |       |                |                | 1 797  | kg             |       |
| Concrete Pavement(260 mm Unif.)(AE) |       |       |                |                |       |                |                | 135.2  | m <sup>2</sup> |       |
| Expansion Joint                     |       |       |                |                |       |                |                | 13 160 | mm             |       |
| 100 mm Pressure Relief Joint        |       |       |                |                |       |                |                | -      | mm             |       |

\* See Bending Diagram

Note: Quantities listed for one approach slab only. Two required per bridge.  
Reinforcing steel and joint lengths shown for information only.



PLAN VIEW

| KANSAS DEPARTMENT OF TRANSPORTATION                  |            |                        |  |           |        |
|------------------------------------------------------|------------|------------------------|--|-----------|--------|
| CONCRETE BRIDGE APPROACH PAVEMENT<br>NORMAL APPROACH |            |                        |  |           |        |
| <del>RD663-SI</del>                                  |            |                        |  |           |        |
| FHWA APPROVAL                                        | 4-10-98    | APP'D. James O. Brewer |  | R.J.S.    | J.O.B. |
| DESIGNED                                             | DETAILED   | QUANTITIES             |  | TRACED    | Bowser |
| DESIGN CK.                                           | DETAIL CK. | QUAN. CK.              |  | TRACE CK. | Saitz  |

Drawn By : \$\$\$\$USERNAME\$\$\$ Plotted : \$\$\$\$SYTIME\$\$\$  
File : \$\$\$\$DGN\$SPEC\$