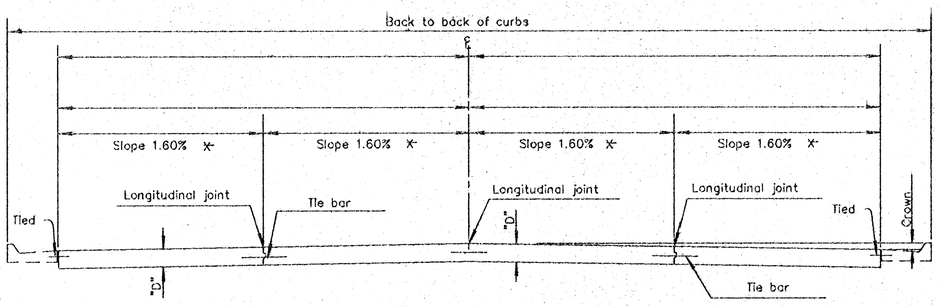
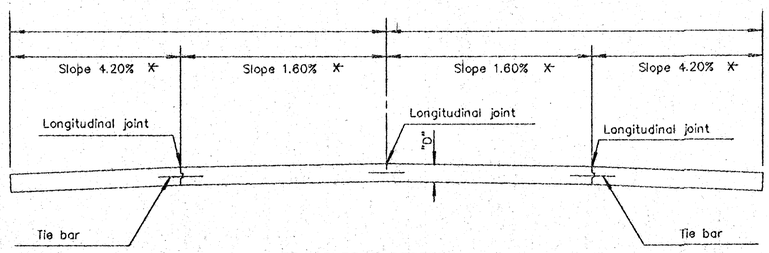
| FHWA REGION NO. | STATE | PROJECT NO. | YEAR | SHEET NO. | TOTAL SHEETS |
|---|---|---|---|---|---|
| 7 | KANSAS | 87-N-0093-01 | 1997 | 24 | 48 |

Note: Designer shall add applicable dowel sizes and pavement depth.




For Curb & Gutter details see Standard Drawing RD740 SI.

TRANSVERSE SECTION
(4 – LANE WITH CURB & GUTTER)




TRANSVERSE SECTION
(2 – LANE WITH SHOULDERS)

* Normal cross slopes. See Typical Section or Cross Sections for variations.

GENERAL NOTE

All deformed tie bars shall be epoxy coated.

Deformed tie bars which require bending shall be billet steel reinforcing bars, Grade 300, and may be epoxy coated.

Pressure relief joints (without load transfer devices) shall be placed at the end of the bridge approach pavement slab. For details of pressure relief joint, see Concrete Bridge Approach Standard Drawing.

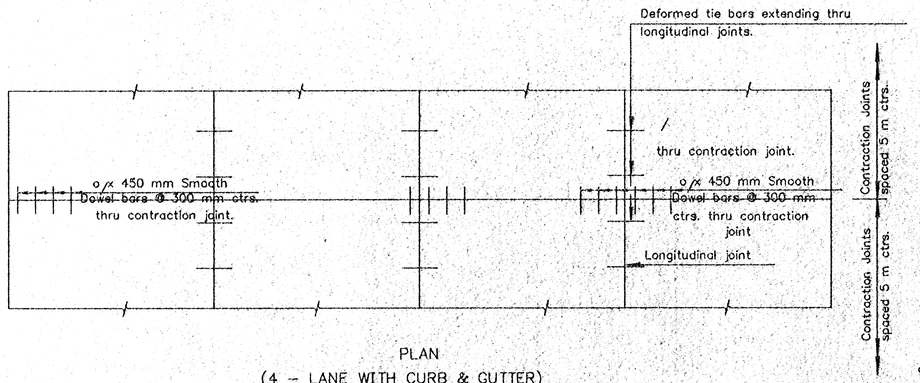
Unless otherwise noted, load transfer devices as shown in detail shall be used at all contraction joints on mainline pavement. No dowels will be used on shoulder contraction joints unless specifically shown on plans.

All joints on this project shall be sawed and filled with sealant.

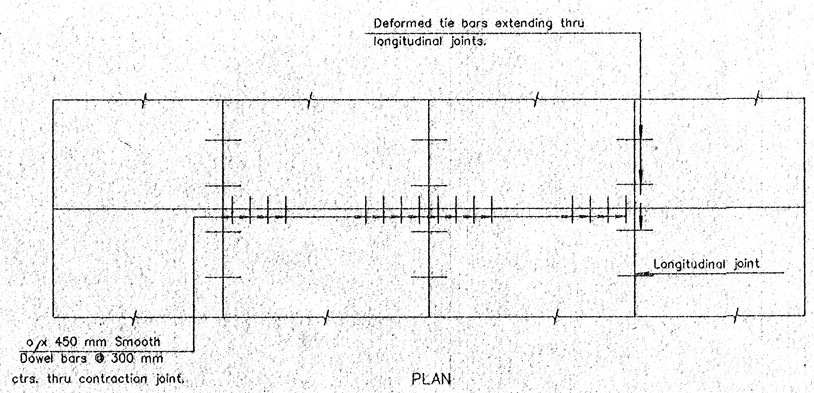
Shape of all keyed joints shall be similar to section of recessed form leg as shown on this sheet.

See Standard Drawing RD681 SI for concrete shoulder details and corrugation details.

All longitudinal joints shall be tied.




PLAN
(4 – LANE WITH CURB & GUTTER)

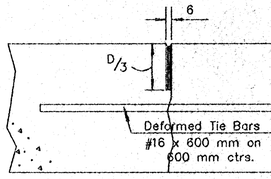



PLAN
(2 – LANE WITH SHOULDERS)

| DOWEL SIZE | |
|---|---|
| D – mm | Dia. mm |
| 160 | 25 |
| 180 | 25 |
| 200 | 25 |
| 220 | 29 |
| 240 | 32 |
| 260 | 32 |
| 280 | 35 |
| 300 | 38 |
| 320 | 41 |
| 340 | 44 |
| 360 | 44 |
| 400 | 51 |

PAVEMENT DEPTH

D= 200 @ 260 mm

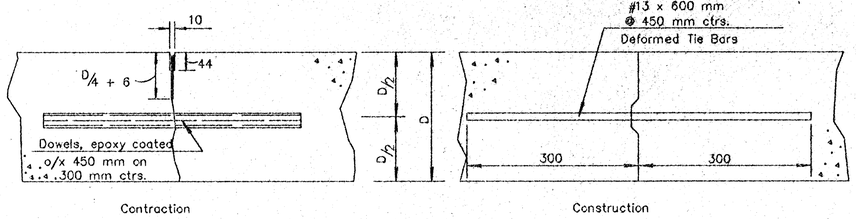



Tied Non-Keyed

Tied Keyed Construction

LONGITUDINAL JOINTS

Note: All sealant is 3 mm to 6mm below surface and is a minimum of 6 mm thick.
A backer rod may be used to limit the amount of sealant needed to fill the reservoir.

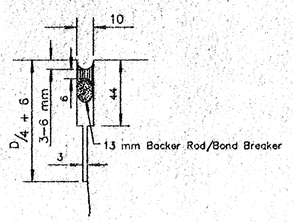



Contraction

Construction

Note: Contraction joints will be constructed at the planned location or as directed by the Engineer.
When necessary to interrupt continuous placement for a substantial length of time or at the end of a day's pour, the Contractor has the option of ending placement at a contraction joint or with a construction joint located a minimum of 1.5 m from a contraction joint. Either joint type may be constructed by placing a header at the end of the pour or by paving past the joint location, sawing the joint after the concrete has hardened, and drilling holes for the tie bars or dowels.

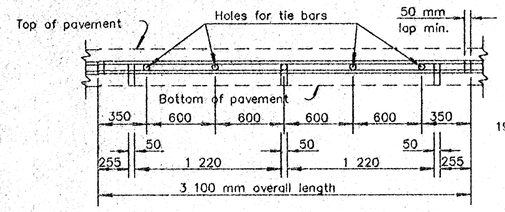
TRANSVERSE JOINTS




DETAIL OF CONTRACTION JOINT
SAWCUT

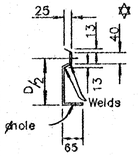
The 3 mm saw cut (D/4 + 6 mm depth) shall be done initially; the 10 mm saw cut shall be accomplished in a separate operation after concrete has gained sufficient strength to avoid spalling as determined by the Engineer.

At longitudinal construction joints where the adjacent slabs are at different elevations the depth of saw cut for the sealant reservoir should be measured from the top of the lower slab. This is to ensure that sufficient sealant is used in the joint.




METAL STRIP FOR
LONGITUDINAL CONSTRUCTION JOINT

To be used only against forms. Shall not extend through contraction joints.




SECTION OF RECESSED FORM LEG

✡ Snap-in leg or other approved designs may be used in lieu of welded leg.

| NO. | DATE | REVISIONS | BY | APP'D |
|---|---|---|---|---|
| 3 | 11-18-97 | Revised Curb and Gutter reference | R.J.S. | J.O.B. |
| 2 | 1-29-97 | Revised Contraction Joint | R.J.S. | J.O.B. |
| 1 | 11-27-96 | Revised Dowel size table | R.J.S. | J.O.B. |

KANSAS DEPARTMENT OF TRANSPORTATION

# CONCRETE PAVEMENT DOWEL JOINTED NON-REINFORCED

RD651 SI

| | | | |
|---|---|---|---|
| FHWA APPROVAL 11-25-97 | | APP'D. James O. Brewer | |
| DESIGNED | DETAILED | QUANTITIES | TRACED Bowser |
| DESIGN CK. | DETAIL CK. | QUAN.CK. | TRACE CK. Seitz |

Drawn By: $USERNAME$ Plotted: $$$$SYSTIME$$$$
File: $$$$$$$$$$$$$$$$$$$$DGNSPEC$$$$$$$$$$$$$$$$$$$$