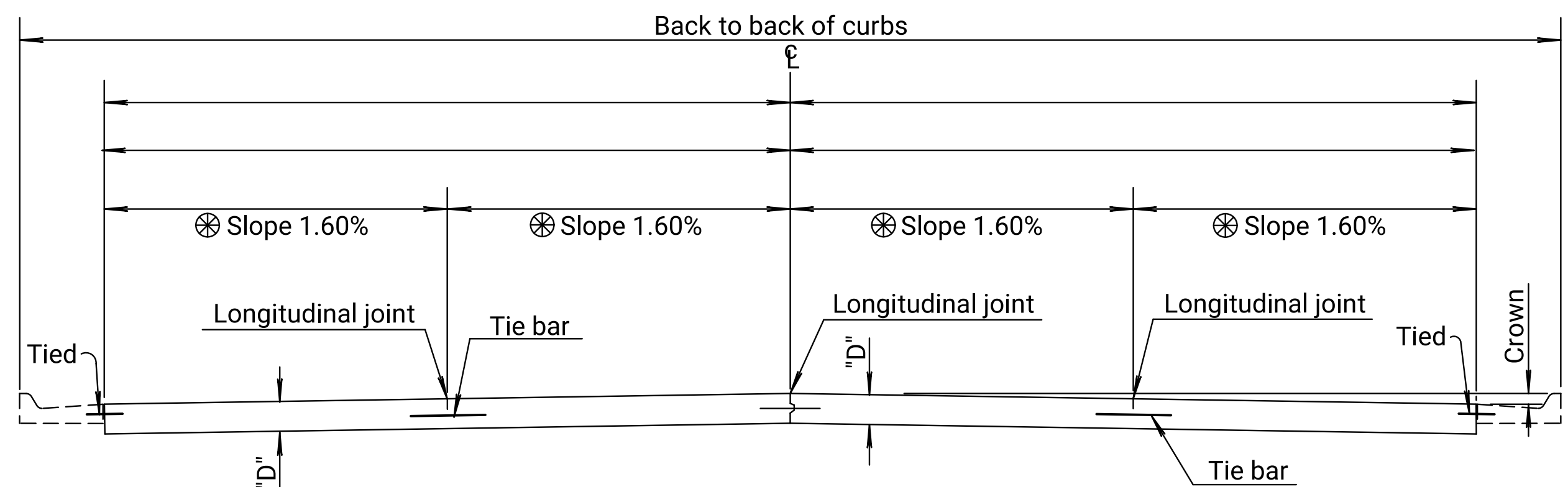


Note: Designer to add applicable dowel sizes.

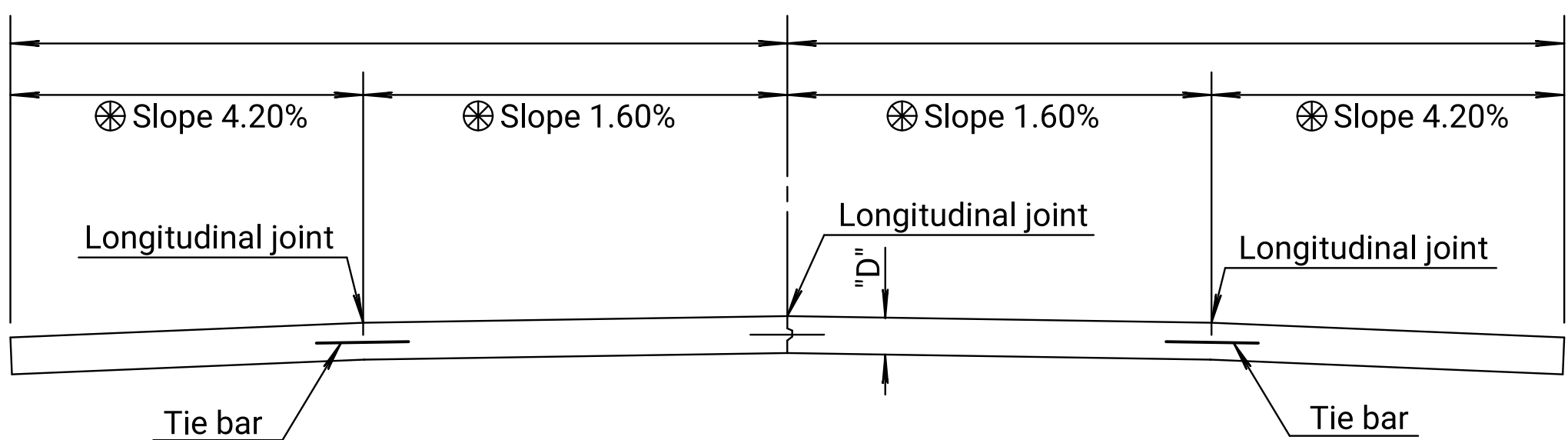
Plotted by : KDOT#CADD.Support_Lks.gov 25-JUN-2022 00:33
File : rd708.dgn



For Curb & Gutter details
See Standard Drawing RD635.

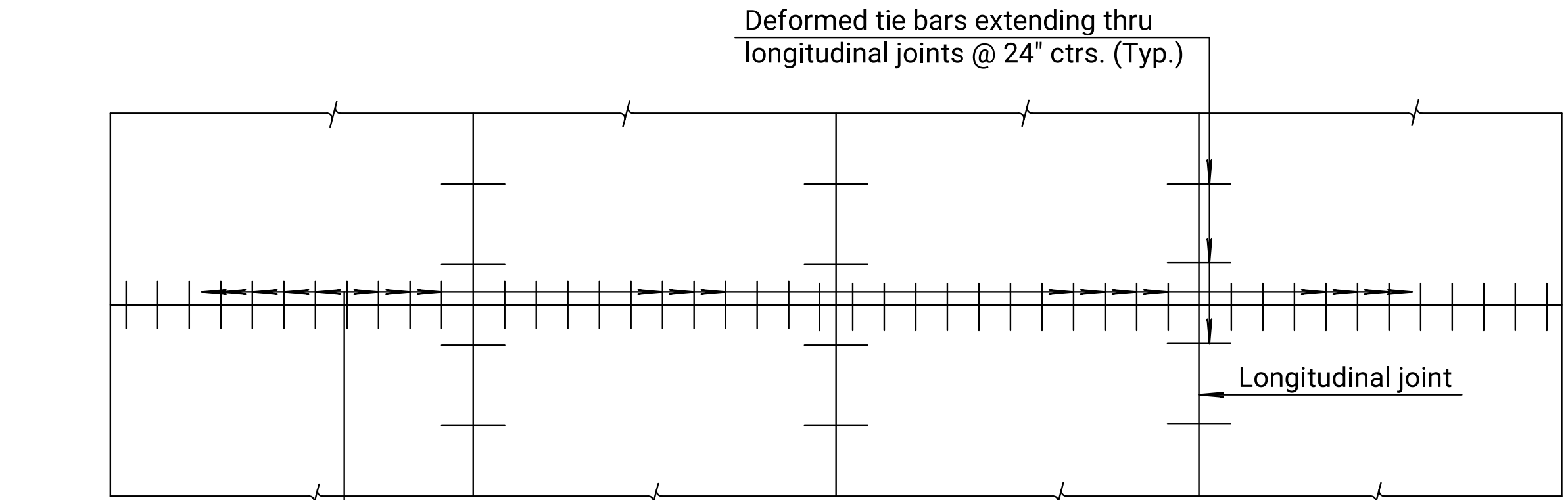
TRANSVERSE SECTION
(4-LANE WITH CURB & GUTTER)

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



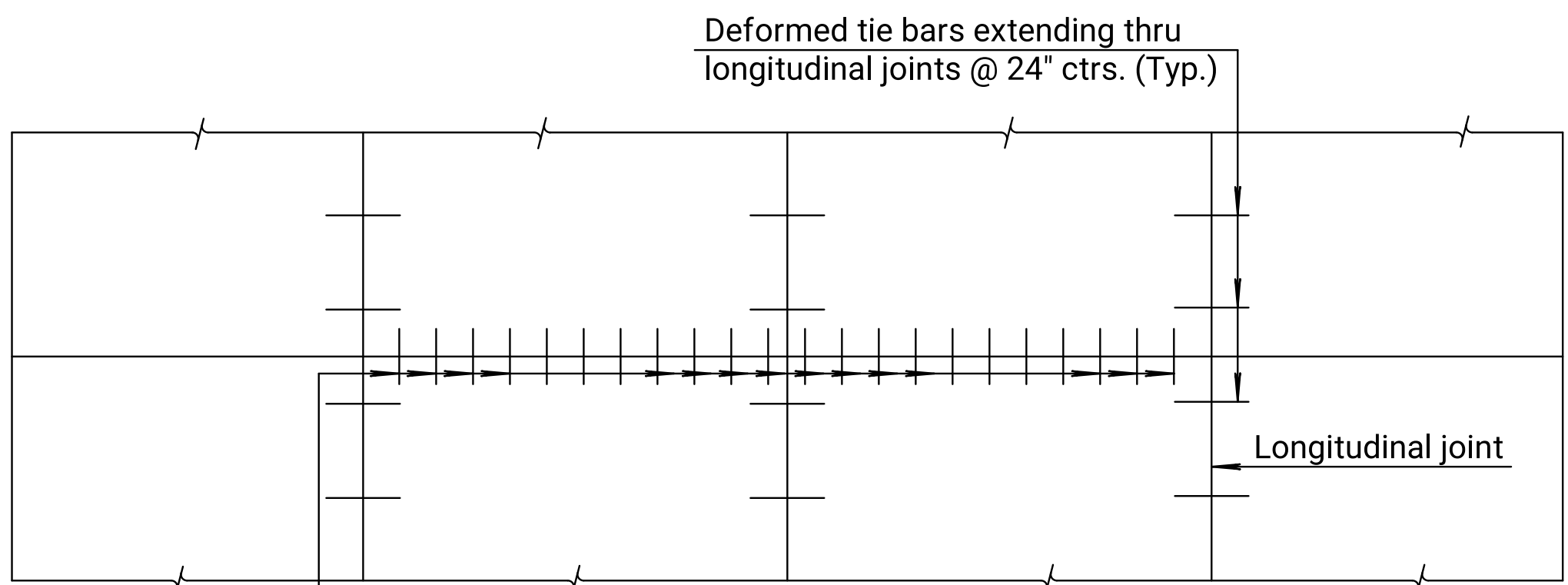
TRANSVERSE SECTION
(2-LANE WITH SHOULDERS)

GENERAL NOTE
Epoxy coat all deformed tie bars that are straight. Patch any damage to the epoxy coating in accordance with the Standard Specifications.
Use billet steel Grade 40 reinforcing for deformed tie bars that require bending, may be epoxy coated at the Contractor's option.
Place pressure relief joint at the end of the bridge approach pavement slab (no bars through joint). For details of pressure relief joint see Standard Drawing RD712.
Use load transfer devices as shown in details at all construction joints on mainline pavement unless otherwise noted. Shoulder contraction joints have no dowels unless specifically shown on the plans.
➤ Fill all sawed joints on the project in accordance with the Standard Specifications with the exception of those joints in pavement constructed over Cement or Asphalt Treated Base.
✕ Use single saw cut, 1/8" wide, joint in pavement constructed over Cement or Asphalt Treated Base (Non-Sealed Joint Sawcut). Use single saw cut, 1/8" wide, joint for shoulder pavement adjacent to mainline pavement constructed over Asphalt or Cement Treated Base (Non-Sealed Joint Sawcut). See detail this sheet.
Shape all keyed joints similar to section of recessed form leg as shown on this sheet.
Evenly space tie bars along the length of slab with no tie bar within 12" of contraction joint. All longitudinal joints are tied.



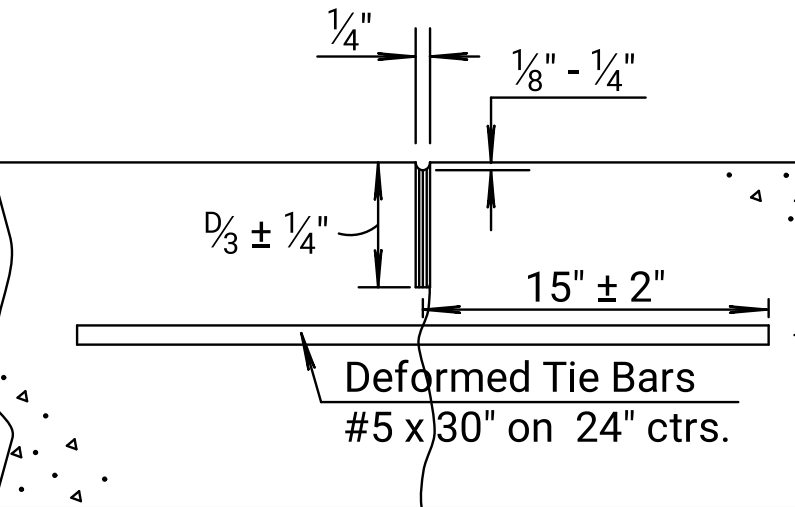
ø x 18" Smooth Dowel bars
Dowel bars @ 12" ctrs. thru
contraction joint (Typical).

PLAN
(4-LANE WITH CURB & GUTTER)

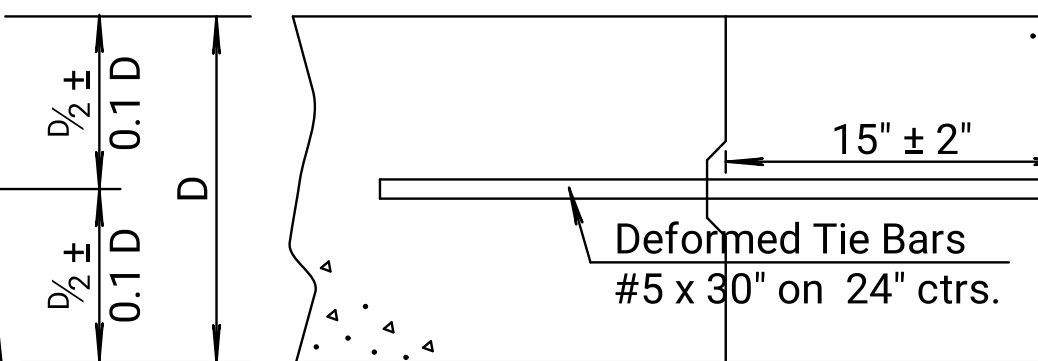


ø x 18" Smooth Dowel bars
Dowel bars @ 12" ctrs. thru
contraction joint (Typical).

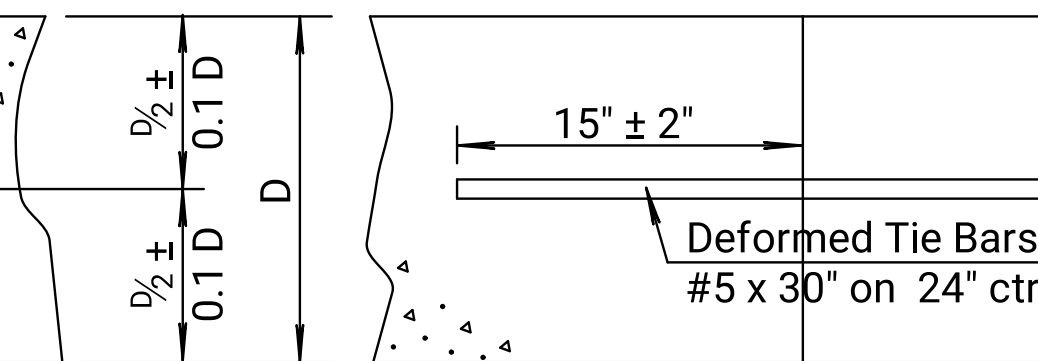
PLAN
(2-LANE WITH SHOULDERS)



Tied Non-Keyed



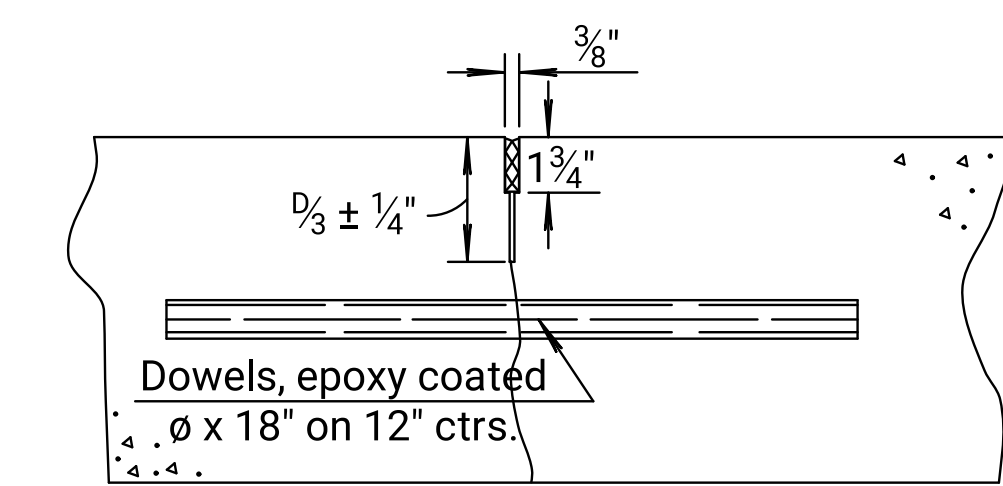
Tied Keyed Construction



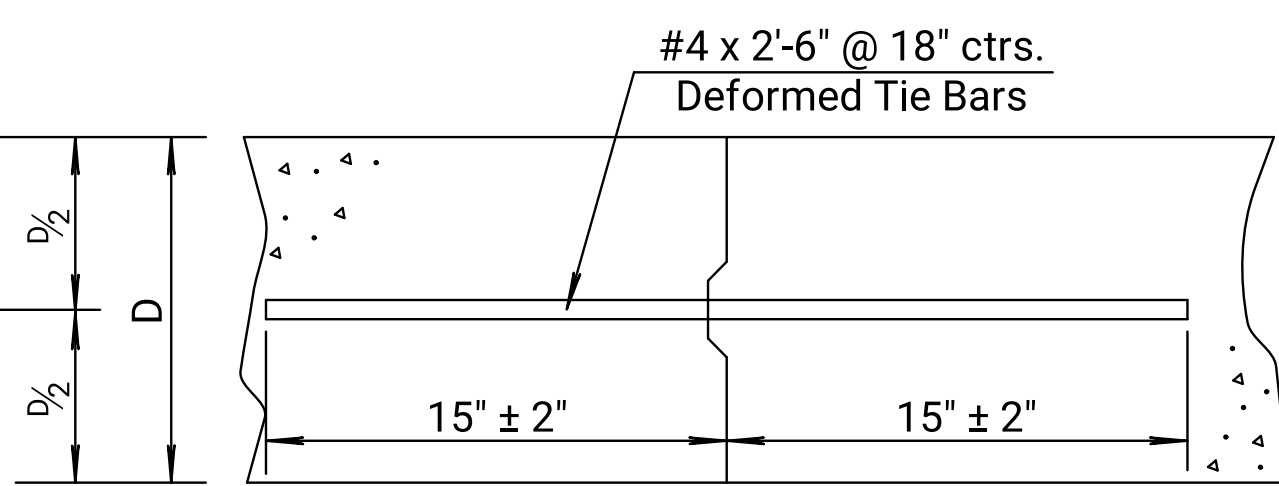
Tied Butt Construction

Note: For longitudinal construction joints the contractor has the option of using either the keyed or butt type. Place deformed tie bars mid-depth of the shoulder.

LONGITUDINAL JOINTS



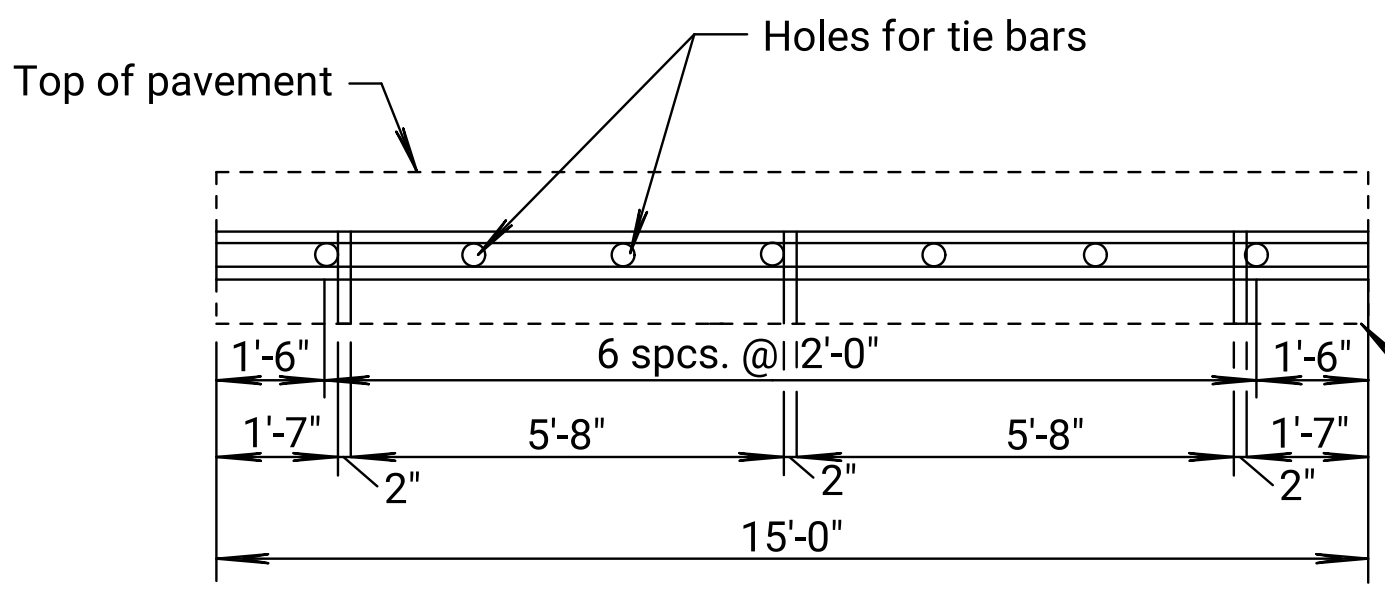
Contraction



Construction

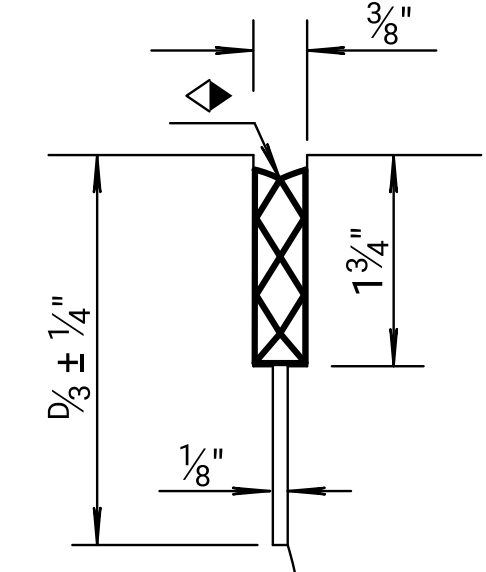
TRANSVERSE JOINTS

Note: Construct contraction joints at plan locations or at the Engineer's direction.
When necessary to interrupt continuous placement for a substantial length of time or at the end of a day's paving, the Contractor has the option of ending placement at a contraction joint or with a construction joint located a minimum of five (5) feet from a contraction joint. Construct either joint type by placing a header at the end of the pour or by paving past the joint location. After the concrete has hardened, saw joint and drill holes for tie bars or dowels.



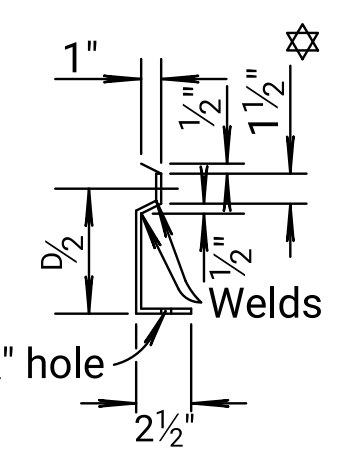
METAL STRIP FOR
LONGITUDINAL CONSTRUCTION JOINT

To be used only against forms, do not extend through contraction joints.
For automated placement tie bars are spaced at uniform 24" centers.
✧ Use snap-in leg or other approved design in lieu of welded leg.



DETAIL OF SEALED
JOINT SAWCUT

Make an initial 1/8" saw cut (D/3 ± 1/4" depth); the second 3/8" saw cut is a separate operation done after concrete has gained sufficient strength to avoid spalling as determined by the Engineer.

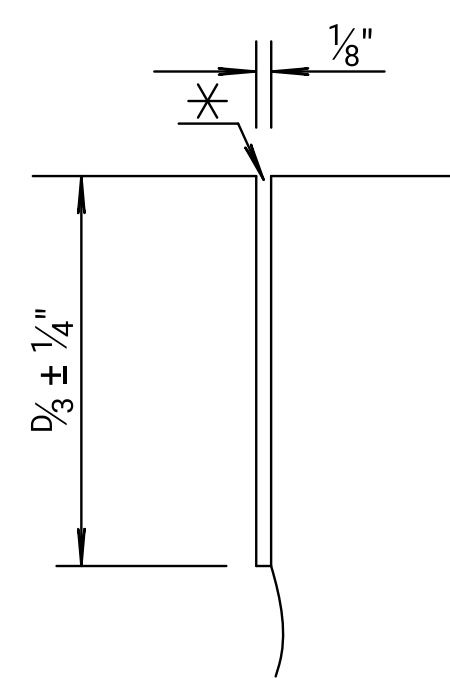


SECTION OF
RECESSED
FORM LEG

DOWEL SIZE	
D (in.)	Diameter
6 < D < 9	1"
9 ≤ D < 11	1 1/4"
D ≥ 11	1 1/2"

PAVEMENT DEPTH

D= ____



DETAIL OF NON-SEALED
JOINT SAWCUT

Make only the initial 1/8" saw cut after concrete has gained sufficient strength to avoid spalling as determined by the Engineer.

19	05-17-13	Revised Note, Longitudinal Joints	S.W.K.	J.O.B.
18	03-21-12	Revised Table, Dowel Size	S.W.K.	J.O.B.
17	01-09-12	Added Detail, Non Sealed Joint	S.W.K.	J.O.B.

KANSAS DEPARTMENT OF TRANSPORTATION				
CONCRETE PAVEMENT DOWEL JOINTED NON-REINFORCED				
RD708				
FHWA APPROVAL		10-23-13		APPD.
DESIGNED	DETAILED	QUANTITIES	TRACED	James O. Brewer
DESIGN CK.	DETAIL CK.	QUAN. CK.	TRACE CK.	

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