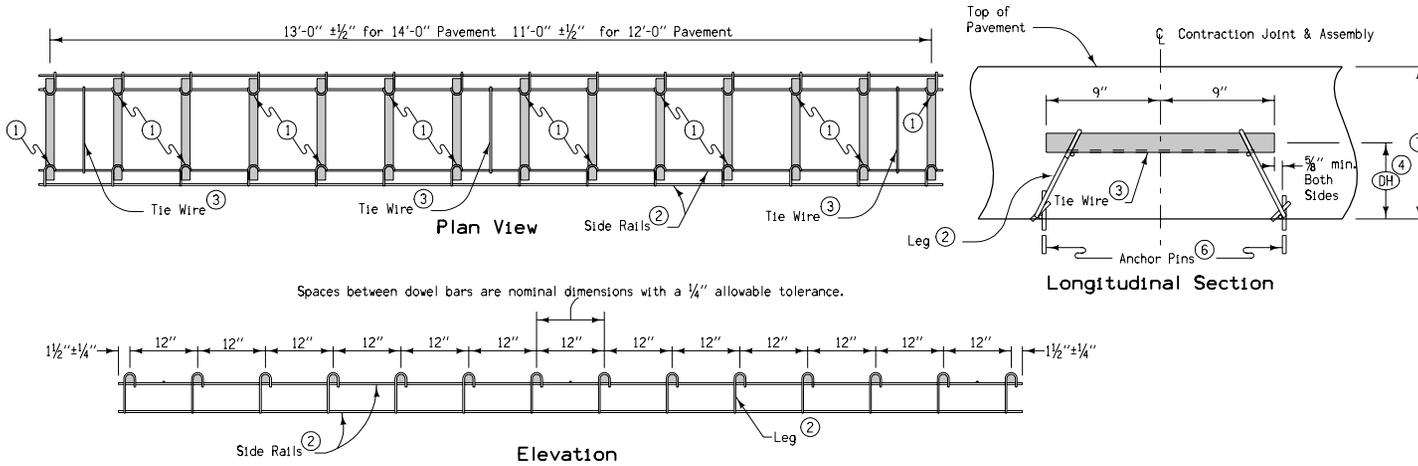


CONTRACTION JOINTS



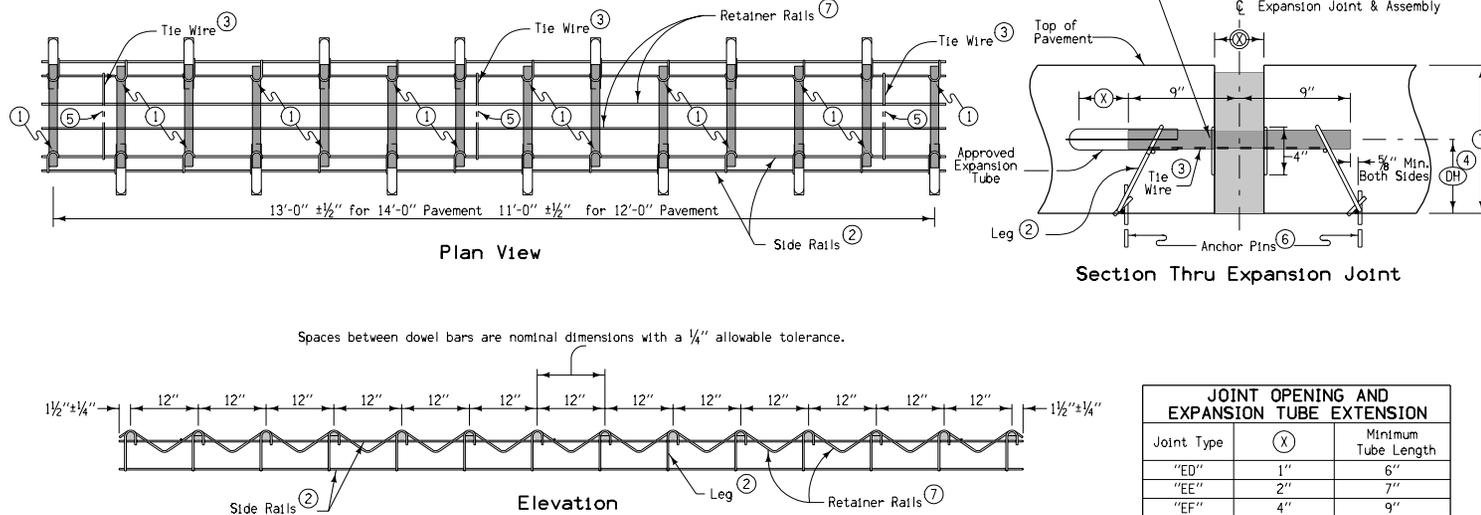
GENERAL NOTES:

Dowel bars shall be 18" long with a tolerance of ± 1/8". The centerline of individual dowels shall be parallel to the other dowels in the assembly within ± 1/8".

Wire sizes shown are the minimum required. Wires shall have a minimum tensile strength of 50 ksi.

- ① Weld alternately throughout.
- ② #1/0 gauge (0.306" diameter) wire.
- ③ #10 gauge (0.135" diameter) wire, welded or friction fit to upper side rail, both sides.
- ④ Measured from the centerline of dowel bar to bottom of lower side rail +1/4".
- ⑤ Clip and remove center portion of tie during field assembly.
- ⑥ Per lane width, a minimum of (8) anchor pins evenly spaced (4 per side), to prevent movement of assembly during construction. Assemblies placed on pavement or PCC base shall be anchored with devices approved by the Engineer.
- ⑦ 0.250 diameter wire.

EXPANSION JOINTS



DOWEL HEIGHT AND DIAMETER		
①	④	Diameter
7.0"-7.5"	3.5"	3/4"
8.0"-9.5"	4.25"	1 1/4"
10.0"-11.5"	5.25"	1 1/2"
12.0"-13.0"	6.25"	1 3/4"

JOINT OPENING AND EXPANSION TUBE EXTENSION		
Joint Type	①	Minimum Tube Length
"ED"	1"	6"
"EE"	2"	7"
"EF"	4"	9"

Iowa Department of Transportation
Highway Division

STANDARD ROAD PLAN RH-55(1)

REVISION: Combine with RH-56 and RH-58.

REVISION NO.

New

REVISION DATE

Deanna Masfeldt
APPROVED BY DESIGN METHODS ENGINEER

04-18-06

DOWEL ASSEMBLIES
Sheet 1 of 2