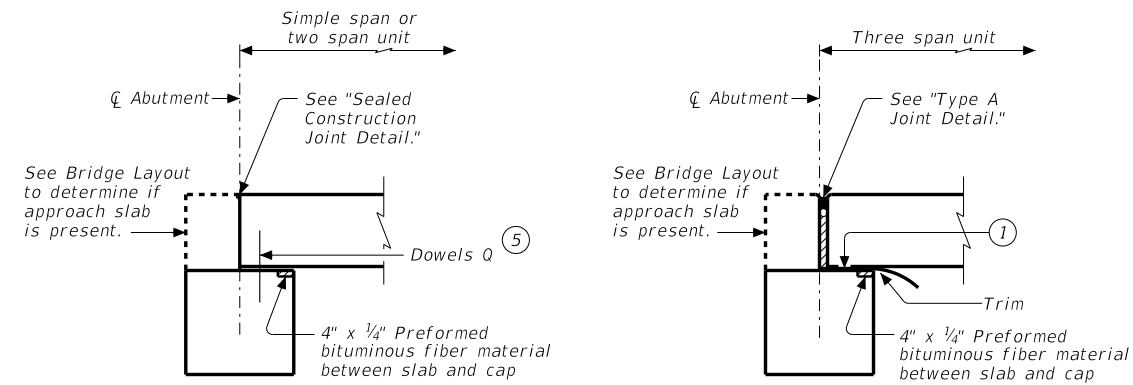


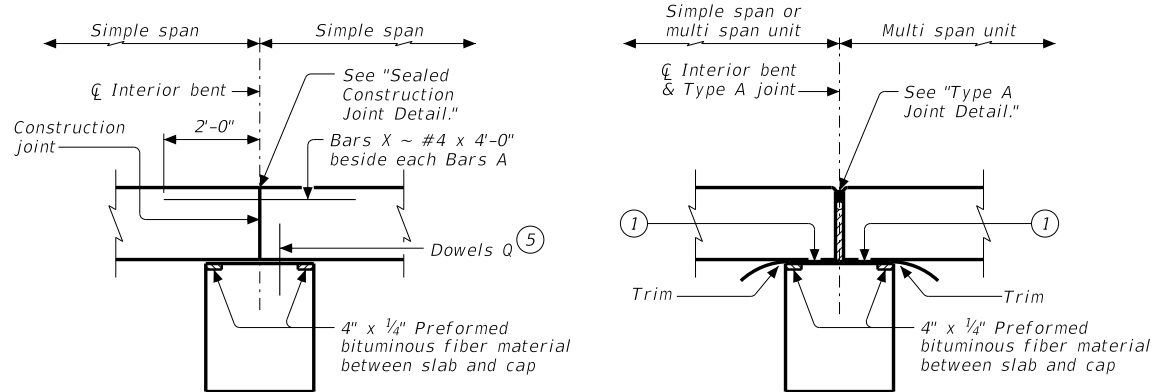
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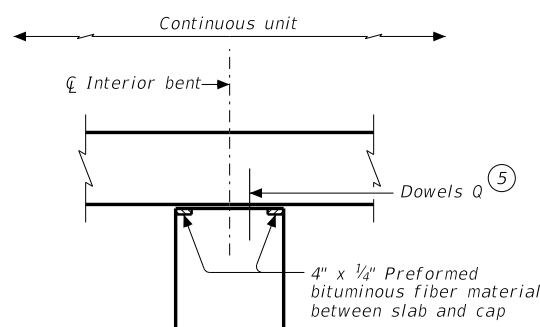
FIXED ABUTMENT

EXPANSION ABUTMENT

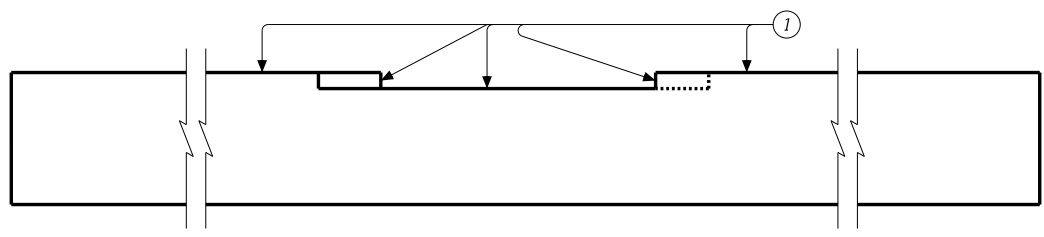


FIXED INTERIOR BENT WITH SIMPLE SPANS

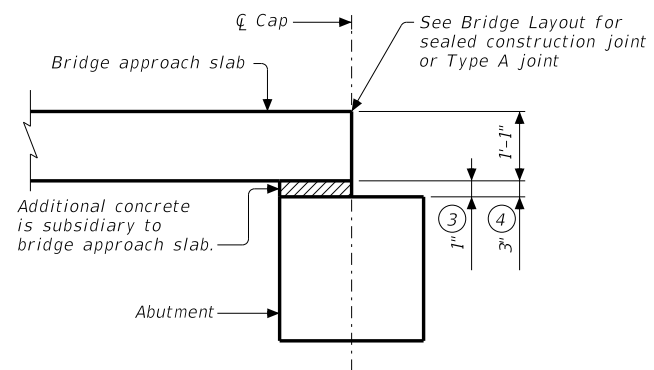
EXPANSION INTERIOR BENT



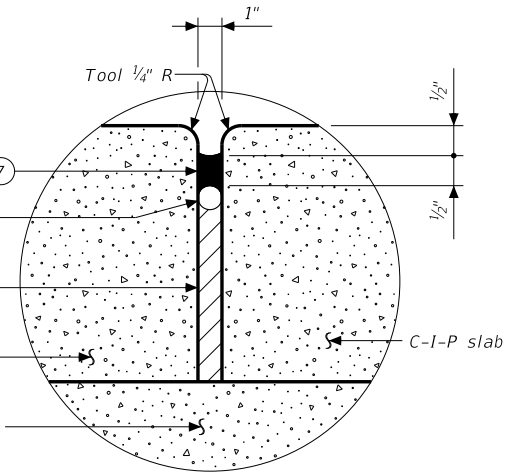
FIXED INTERIOR BENT WITH CONTINUOUS UNIT



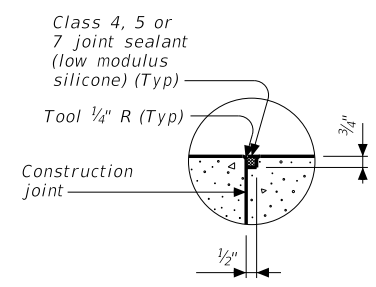
ELEVATION OF CAP
(Showing skewed conditions, non-skewed is similar.)



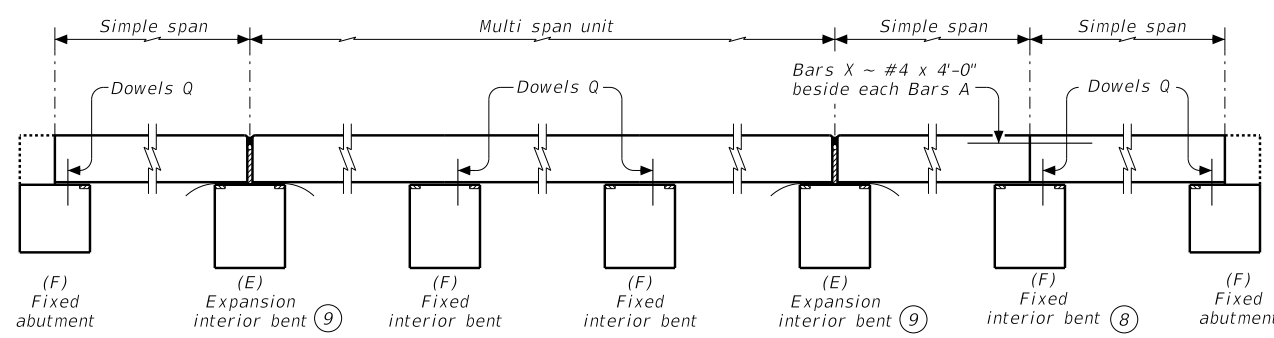
MODIFIED BRIDGE APPROACH SLAB



TYPE A JOINT DETAIL

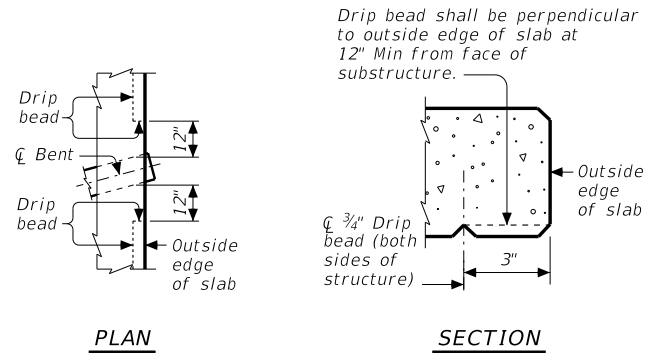


SEALED CONSTRUCTION JOINT DETAIL



EXAMPLE OF FIXED AND EXPANSION BENTS

Showing C-I-P slab span with a 16" slab thickness.



DRIP BEAD DETAILS

ADJUSTMENT IN REINFORCING STEEL QUANTITIES

Rdwy Width	Fixed Condition (8)		Expansion Condition (9)	
	Add Bars X	Deduct Dowel Q	Deduct Dowel Q	Add Bars X
Ft	No.	Weight	No.	Weight
24	30	+80	5	-11
28	34	+91	5	-11
30	36	+96	5	-11
38	44	+118	5	-11
44	50	+134	5	-11

Note: The above quantities are for the fixed or expansion condition over one bent and are for information only.

- Smooth trowel finish. Oil top of cap with 60 grade oil and apply heavy coat of powdered graphite. Press down one layer of 30# roofing felt.
- See Bridge Layout to determine if approach slab is present.
- Use with 14" slab thickness.
- Use with 16" slab thickness.
- See Abutment or Bent details for location of Dowels Q.
- 1 1/4" backer rod must be compatible with joint sealant. Use of multiple pieces to create a backer rod cross section is not permitted. Top of backer rod must be convex as shown.
- Class 7 silicone sealant that conforms to DMS 6310. Install when ambient temperature is between 55°F and 85°F and rising. Engineer to determine allowable hours for sealant application.
- Bars X required only when 2 simple spans are used together over a fixed interior bent. The use of 3 consecutive simple spans are not recommended nor supported by this standard.
- Omit Dowels Q from expansion bents.
- Recommended location of Type A joints are at the ends of 3 span units, ends of 2 span units supported by an interior bent, and no farther than 2 simple spans from an abutment.

GENERAL NOTES:

Designed according to AASHTO LRFD Bridge Specifications. Seal slab construction joints at bent locations with Class 4, 5, or 7 joint sealant (low modulus silicone.) See "Sealed Construction Joint Detail."
See Bridge Layout for joint type and location. Provide sealed construction joints or Type A joints.
Payment for Type A joints will be as per item 454, "Bridge Expansion Joints."
Sealed construction joints are subsidiary to the span. This standard does not support the use of transition bents.

HL93 LOADING

Texas Department of Transportation
Bridge Division Standard

MISC DETAILS FOR C-I-P CONC SLAB SPANS

CS-MD

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