Appendix B: Distribution of Live Loads per Lane for Moment in Exterior Longitudinal Beams (AASHTO Table 4.6.2.2.2d-1)

Distribution of Live Loads pe	Loads per Lane for Moment in Exterior Longitudinal Beams	or Longitudinal Beams		
Type of Superstructure	Applicable Cross Section from Table 4.6.2.2.1-1	One Design Lane Loaded	Two or More Design Lanes Loaded	Range of Applicability
Wood Deck on Wood or Steel Beams	a, 1	Lever Rule	Lever Rule	N/A
Concrete Deck on Wood Beams	1	Lever Rule	Lever Rule	N/A
Concrete Deck, Filled Grid, Partially Filled Grid, or Unfilled Grid Deck Composite with Reinforced Concrete Slab	a, e, k, and also i, j if sufficiently connected to act as a unit	Lever Rule	$g = e g_{interior}$ $e = 0.77 + \frac{d_e}{9.1}$	$-1.0 \le d_e \le 5.5$
on Steel or Concrete Beams; Concrete T-Beams, T- and Double T-Sections			Use lesser of the values obtained from the equation above with $N_b = 3$ or the lever rule	$N_b = 3$
Cast-in-Place Concrete Multicell Box	þ	$g = \frac{W_e}{14}$	$g = \frac{W_e}{14}$	$W_e \le S$
		or the provisions for a whole-width design specified in <b>Article 4.6.2.2.1</b>		
Concrete Deck on Concrete Spread Box Beams	b, c	Lever Rule	$g = e g_{\text{interior}}$ $e = 0.97 + \frac{d_e}{28.5}$	$0 \le d_e \le 4.5$ $6.0 < S \le 18.0$
			Use Lever Rule	S > 18.0

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Concrete Box Beams Used in Multibeam Decks	<i>8'</i> j	$g = e g_{\text{interior}}$ $e = 1.125 + \frac{d_e}{30} \ge 1.0$	$g = e g_{\text{interior}}$ $e = 1.04 + \frac{d_e}{25} \ge 1.0$	$d_e \le 2.0$
Concrete Beams Other than Box	Ч	Lever Rule	Lever Rule	N/A
beams Used in Multibeam Decks	i, j if connected only enough to prevent relative vertical displacement at the interface			
Open Steel Grid Deck on Steel Beams	В	Lever Rule	Lever Rule	N/A
Concrete Deck on Multiple Steel Box Girders	b, c	As spi	As specified in Table 4.6.2.2.2b-1	
Source: AASHTO Table 4.6.2.2.2d-1.	.2d-1.			