

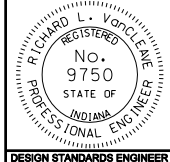
**BILL OF MATERIALS**  
**SQUARE STRUCTURES - ONE SLAB**

BRIDGE APPROACH WIDTH	EPOXY COATED REINFORCING BARS				TOTAL WEIGHT LBS.	REINFORCED CONCRETE BRIDGE APPROACH AREA SQ. YDS.
	LONGIT. BARS		TRANSV. BARS			
	NO.	SIZE x LGTH. OR MARK	NO.	SIZE x LGTH.		
24'-0	24	491	21	#4 x 23'-6	1958	54.7
	8	591	11	#5 x 23'-6		
25'-0	26	491	21	#4 x 24'-6	2076	56.9
	51	591	11	#5 x 24'-6		
25'-6	26	491	21	#4 x 25'-0	2110	58.1
	52	591	11	#5 x 25'-0		
27'-0	28	491	21	#4 x 26'-6	2240	61.5
	55	591	11	#5 x 26'-6		
29'-0	30	491	21	#4 x 28'-6	2404	66.1
	59	591	11	#5 x 28'-6		
31'-0	32	491	21	#4 x 30'-6	2568	70.6
	63	591	11	#5 x 30'-6		
33'-0	34	491	21	#4 x 32'-6	2733	75.2
	67	591	11	#5 x 32'-6		
35'-0	36	491	21	#4 x 34'-6	2897	79.7
	71	591	11	#5 x 34'-6		
37'-0	38	491	21	#4 x 36'-6	3061	84.3
	75	591	11	#5 x 36'-6		
39'-0	40	491	21	#4 x 38'-6	3225	88.8
	79	591	11	#5 x 38'-6		
40'-0	41	491	21	#4 x 39'-6	3307	91.1
	81	591	11	#5 x 39'-6		
42'-0	42	491	42	#4 x 21'-9 *	3466	95.7
	83	591	22	#5 x 21'-9 **		
44'-0	46	491	42	#4 x 22'-9 *	3744	100.2
	91	591	22	#5 x 22'-9 **		

\* Bars lapped 1'-7 at centerline of roadway.      \*\* Bars lapped 2'-0 at centerline of roadway.

**NOTES**

- The Bill of Materials shall be used to determine the bar lengths, total mass of steel, and bridge approach area for square structures.
- For details, see Standard Drawing E 609-RCBA-03.

INDIANA DEPARTMENT OF TRANSPORTATION	
REINFORCED CONCRETE BRIDGE APPROACH	
MARCH 2004	
STANDARD DRAWING NO. E 609-RCBA-05	
	/s/ Richard L. VanCleave      3-01-04 DESIGN STANDARDS ENGINEER      DATE
	/s/ Richard K. Smutzer      3-01-04 CHIEF HIGHWAY ENGINEER      DATE
DESIGN STANDARDS ENGINEER	