

**SUMMARY OF QUANTITIES - SUPERSTRUCTURE (PER SPAN)**

SPAN	PRESTRESSED CONCRETE BEAM TYPE	STANDARD PIER TO STANDARD PIER						STANDARD PIER TO STEPPED PIER						STEPPED PIER TO STEPPED PIER					
		PRESTRESSED CONCRETE BEAMS (TYPE ①) (LF)	CONCRETE RAIL (TR3) (LF)	STRUCTURAL STEEL (LB)	CLASS AA CONCRETE (CY)	REINFORCING STEEL ② (LB)	(PL) FIXED OR EXPANSION BEARING ASSEMBLY ③ (EA)	PRESTRESSED CONCRETE BEAMS (TYPE ①) (LF)	CONCRETE RAIL (TR3) (LF)	STRUCTURAL STEEL (LB)	CLASS AA CONCRETE (CY)	REINFORCING STEEL ② (LB)	(PL) FIXED OR EXPANSION BEARING ASSEMBLY ③ (EA)	PRESTRESSED CONCRETE BEAMS (TYPE ①) (LF)	CONCRETE RAIL (TR3) (LF)	STRUCTURAL STEEL (LB)	CLASS AA CONCRETE (CY)	REINFORCING STEEL ② (LB)	(PL) FIXED OR EXPANSION BEARING ASSEMBLY ③ (EA)
30'	II	118.67	60.0	420	30.2	9,480	8	118.67	62.4	420	31.4	9,760	8	118.67	64.7	420	32.7	10,030	8
	B	118.67	60.0	420	30.0	9,470	8	118.67	62.4	420	31.2	9,750	8	118.67	64.7	420	32.5	10,020	8
35'	II	138.67	70.0	420	34.6	10,550	8	138.67	72.4	420	35.8	10,770	8	138.67	74.7	420	37.1	10,990	8
	B	138.67	70.0	420	34.4	10,540	8	138.67	72.4	420	35.6	10,760	8	138.67	74.7	420	36.8	10,970	8
40'	II	158.67	80.0	420	38.9	11,550	8	158.67	82.4	420	40.2	11,770	8	158.67	84.7	420	41.4	11,980	8
	B	158.67	80.0	420	38.7	11,540	8	158.67	82.4	420	40.0	11,760	8	158.67	84.7	420	41.2	11,970	8
45'	II	178.67	90.0	420	43.3	12,390	8	178.67	92.4	420	44.5	12,600	8	178.67	94.7	420	45.8	12,820	8
	B	178.67	90.0	420	43.1	12,380	8	178.67	92.4	420	44.3	12,590	8	178.67	94.7	420	45.6	12,810	8
50'	II	198.67	100.0	420	47.6	13,460	8	198.67	102.4	420	48.9	13,680	8	198.67	104.7	420	50.1	13,890	8
	B	198.67	100.0	420	47.4	13,450	8	198.67	102.4	420	48.7	13,660	8	198.67	104.7	420	49.9	13,880	8
55'	II	218.67	110.0	420	52.0	14,300	8	218.67	112.4	420	53.2	14,510	8	218.67	114.7	420	54.5	14,730	8
	B	218.67	110.0	420	51.8	14,290	8	218.67	112.4	420	53.0	14,500	8	218.67	114.7	420	54.3	14,720	8
60'	II	238.67	120.0	420	56.4	15,290	8	238.67	122.4	420	57.6	15,510	8	238.67	124.7	420	58.8	15,720	8
	C	238.67	120.0	430	57.1	15,310	8	238.67	122.4	430	58.4	15,530	8	238.67	124.7	430	59.7	15,740	8
65'	II	258.67	130.0	420	60.7	16,130	8	258.67	132.4	420	62.0	16,350	8	258.67	134.7	420	63.2	16,560	8
	C	258.67	130.0	430	61.5	16,150	8	258.67	132.4	430	62.8	16,360	8	258.67	134.7	430	64.1	16,580	8
70'	III	278.67	140.0	430	66.5	17,240	8	278.67	142.4	430	67.8	17,450	8	278.67	144.7	430	69.1	17,670	8
	C	278.67	140.0	430	65.9	17,220	8	278.67	142.4	430	67.2	17,430	8	278.67	144.7	430	68.5	17,650	8
75'	III	298.67	150.0	430	70.9	18,070	8	298.67	152.4	430	72.2	18,290	8	298.67	154.7	430	73.5	18,510	8
	C	298.67	150.0	430	70.3	18,050	8	298.67	152.4	430	71.6	18,270	8	298.67	154.7	430	72.9	18,490	8
80'	III	318.67	160.0	430	75.3	19,070	8	318.67	162.4	430	76.6	19,290	8	318.67	164.7	430	77.9	19,500	8
	C	318.67	160.0	430	74.7	19,050	8	318.67	162.4	430	76.0	19,270	8	318.67	164.7	430	77.3	19,480	8
85'	III	338.67	170.0	430	79.7	19,910	8	338.67	172.4	430	81.0	20,130	8	338.67	174.7	430	82.3	20,340	8
	IV	338.67	170.0	430	81.0	19,930	8	338.67	172.4	430	82.4	20,150	8	338.67	174.7	430	83.8	20,360	8
90'	III	358.67	180.0	430	84.1	20,910	8	358.67	182.4	430	85.4	21,120	8	358.67	184.7	430	86.7	21,340	8
	IV	358.67	180.0	430	85.5	20,930	8	358.67	182.4	430	86.9	21,140	8	358.67	184.7	430	88.2	21,360	8
95'	IV	378.67	190.0	430	89.9	21,760	8	378.67	192.4	430	91.3	21,980	8	378.67	194.7	430	92.7	22,200	8
100'	IV	398.67	200.0	430	94.4	22,760	8	398.67	202.4	430	95.8	22,980	8	398.67	204.7	430	97.1	23,190	8
105'	IV	418.67	210.0	570	100.3	23,780	8	418.67	212.4	570	101.7	24,000	8	418.67	214.7	570	103.1	24,220	8
110'	IV	438.67	220.0	570	104.8	24,850	8	438.67	222.4	570	106.1	25,070	8	438.67	224.7	570	107.5	25,280	8
115'	IV	458.67	230.0	570	109.2	25,690	8	458.67	232.4	570	110.6	25,910	8	458.67	234.7	570	112.0	26,120	8
120'	BT-72	478.67	240.0	1,090	129.5	28,330	8	478.67	242.4	1,090	131.0	28,550	8	478.67	244.7	1,090	132.5	28,760	8
	J	478.67	240.0	1,090	129.5	28,330	8	478.67	242.4	1,090	131.0	28,550	8	478.67	244.7	1,090	132.5	28,760	8
125'	BT-72	498.67	250.0	1,090	134.3	29,170	8	498.67	252.4	1,090	135.8	29,390	8	498.67	254.7	1,090	137.3	29,600	8
	J	498.67	250.0	1,090	134.3	29,170	8	498.67	252.4	1,090	135.8	29,390	8	498.67	254.7	1,090	137.3	29,600	8
130'	BT-72	518.67	260.0	1,090	139.0	30,170	8	518.67	262.4	1,090	140.5	30,380	8	518.67	264.7	1,090	142.0	30,600	8
	J	518.67	260.0	1,090	139.0	30,170	8	518.67	262.4	1,090	140.5	30,380	8	518.67	264.7	1,090	142.0	30,600	8
135'	J	538.67	270.0	1,090	143.7	31,000	8	538.67	272.4	1,090	145.2	31,220	8	538.67	274.7	1,090	146.7	31,440	8
140'	J	558.67	280.0	1,090	148.5	32,000	8	558.67	282.4	1,090	149.9	32,220	8	558.67	284.7	1,090	151.4	32,430	8
145'	J	578.67	290.0	1,090	153.2	32,840	8	578.67	292.4	1,090	154.7	33,060	8	578.67	294.7	1,090	156.2	33,270	8

- ① PRESTRESSED CONCRETE BEAM TYPE SHALL BE TYPE II, TYPE B, TYPE III, TYPE C, TYPE IV, TYPE 72 BT OR TYPE J BT AS APPLICABLE.
- ② QUANTITY INCLUDES PROVISION FOR LAP SPLICES REQUIRED IN THE LONGITUDINAL REINFORCING STEEL AS FOLLOWS:  
 30' THRU 45' SPANS - 1/2 LAP SPLICE  
 50' THRU 65' SPANS - 1 LAP SPLICE  
 70' THRU 105' SPANS - 1 1/2 LAP SPLICES  
 110' THRU 145' SPANS - 2 LAP SPLICES  
 LAP SPLICES ACCOUNT FOR ADJACENT SPAN COMBINATIONS AND ARE APPROXIMATE. PAYMENT FOR "REINFORCING STEEL" WILL BE BASED ON PLAN QUANTITY.
- ③ PROVIDE AND INSTALL FIXED OR EXPANSION BEARING ASSEMBLIES OF THE SIZE, SHAPE AND LOCATION AS DETAILED IN THE PLANS. SEE SUMMARY FOR THE ESTIMATED TOTAL AMOUNT OF STRUCTURAL STEEL PER EACH FIXED OR EXPANSION BEARING ASSEMBLY. ALL COST OF PROVIDING AND INSTALLING THE FIXED OR EXPANSION BEARING ASSEMBLIES INCLUDING THE COST OF STEEL REINFORCED ELASTOMERIC BEARING PADS, ANCHOR PLATES, CONTACT PLATES, CONTACT ANGLES, ANCHOR BOLTS, NUTS, WASHERS, MATERIAL, LABOR, EQUIPMENT AND INCIDENTALS SHALL BE INCLUDED IN THE UNIT PRICE BID PER EACH OF "FIXED BEARING ASSEMBLY" OR "EXPANSION BEARING ASSEMBLY."

**NOTES:**

QUANTITY CALCULATIONS ASSUME ALL PIERS ARE FIXED PIERS. ANY ADJUSTMENTS TO THE QUANTITIES OF "CONCRETE RAIL (TR3)", "CLASS AA CONCRETE" AND "REINFORCING STEEL" NECESSARY TO ACCOUNT FOR EXPANSION JOINT OPENINGS WITHIN THE BRIDGE ARE MINOR AND HAVE NOT BEEN CONSIDERED. PAYMENT FOR "CONCRETE RAIL (TR3)", "CLASS AA CONCRETE" AND "REINFORCING STEEL" WILL BE BASED ON PLAN QUANTITY.

APPROVED BY BRIDGE ENGINEER	<i>Robert A. Nease</i>	DATE	10/16/08
OKLAHOMA DEPARTMENT OF TRANSPORTATION COUNTY BRIDGE STANDARD (ENGLISH)			
SUPERSTRUCTURE QUANTITIES P.C. BEAMS (SHEET NO. 2 OF 2)			
32' CLEAR ROADWAY - CONVENTIONAL - SKEWED 30°			
1999 STANDARD SPECIFICATIONS	CB32-C-SK30-SPR-QUAN-PCB-2	00E	CB-632E