

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)	SAW-CUT GROOVING (SY)	CONCRETE RAIL (TR3) (LF)	STRUCTURAL STEEL (LB)	WEATHERING STEEL FIXED OR EXPANSION BEARING ASSEMBLY ② (EA)	CLASS AA CONCRETE (CY)	REINFORCING STEEL ③ (LB)	PRESTRESSED CONCRETE BEAMS (TYPE ①) (LF)	SAW-CUT GROOVING (SY)	CONCRETE RAIL (TR3) (LF)	STRUCTURAL STEEL (LB)	WEATHERING STEEL FIXED OR EXPANSION BEARING ASSEMBLY ② (EA)	CLASS AA CONCRETE (CY)	REINFORCING STEEL ③ (LB)	PRESTRESSED CONCRETE BEAMS (TYPE ①) (LF)	SAW-CUT GROOVING (SY)	CONCRETE RAIL (TR3) (LF)	STRUCTURAL STEEL (LB)	WEATHERING STEEL FIXED OR EXPANSION BEARING ASSEMBLY ② (EA)	CLASS AA CONCRETE (CY)	REINFORCING STEEL ③ (LB)
30'	II	118.67	89.8	60.0	430	8	30.2	9,540	118.67	93.4	62.4	430	8	31.4	9,810	118.67	97.1	64.7	430	8	32.7	10,080
	B	118.67	89.8	60.0	430	8	30.0	9,530	118.67	93.4	62.4	430	8	31.2	9,800	118.67	97.1	64.7	430	8	32.5	10,070
35'	II	138.67	105.3	70.0	430	8	34.6	10,610	138.67	109.0	72.4	430	8	35.8	10,820	138.67	112.6	74.7	430	8	37.1	11,040
	B	138.67	105.3	70.0	430	8	34.4	10,600	138.67	109.0	72.4	430	8	35.6	10,810	138.67	112.6	74.7	430	8	36.8	11,030
40'	II	158.67	120.9	80.0	430	8	38.9	11,610	158.67	124.5	82.4	430	8	40.2	11,820	158.67	128.2	84.7	430	8	41.4	12,030
	B	158.67	120.9	80.0	430	8	38.7	11,590	158.67	124.5	82.4	430	8	40.0	11,810	158.67	128.2	84.7	430	8	41.2	12,020
45'	II	178.67	136.5	90.0	430	8	43.3	12,440	178.67	140.1	92.4	430	8	44.5	12,660	178.67	143.7	94.7	430	8	45.8	12,880
	B	178.67	136.5	90.0	430	8	43.1	12,430	178.67	140.1	92.4	430	8	44.3	12,650	178.67	143.7	94.7	430	8	45.6	12,860
50'	II	198.67	152.0	100.0	430	8	47.6	13,510	198.67	155.6	102.4	430	8	48.9	13,730	198.67	159.3	104.7	430	8	50.1	13,940
	B	198.67	152.0	100.0	430	8	47.4	13,500	198.67	155.6	102.4	430	8	48.7	13,720	198.67	159.3	104.7	430	8	49.9	13,930
55'	II	218.67	167.6	110.0	430	8	52.0	14,350	218.67	171.2	112.4	430	8	53.2	14,570	218.67	174.8	114.7	430	8	54.5	14,780
	B	218.67	167.6	110.0	430	8	51.8	14,340	218.67	171.2	112.4	430	8	53.0	14,560	218.67	174.8	114.7	430	8	54.3	14,770
60'	II	238.67	183.1	120.0	430	8	56.4	15,350	238.67	186.8	122.4	430	8	57.6	15,570	238.67	190.4	124.7	430	8	58.9	15,780
	C	238.67	183.1	120.0	430	8	57.1	15,360	238.67	186.8	122.4	430	8	58.4	15,580	238.67	190.4	124.7	430	8	59.7	15,790
65'	II	258.67	198.7	130.0	430	8	60.7	16,190	258.67	202.3	132.4	430	8	62.0	16,400	258.67	205.9	134.7	430	8	63.2	16,620
	C	258.67	198.7	130.0	430	8	61.5	16,200	258.67	202.3	132.4	430	8	62.8	16,420	258.67	205.9	134.7	430	8	64.1	16,630
70'	III	278.67	214.2	140.0	430	8	66.5	17,290	278.67	217.9	142.4	430	8	67.8	17,510	278.67	221.5	144.7	430	8	69.1	17,720
	C	278.67	214.2	140.0	430	8	65.9	17,270	278.67	217.9	142.4	430	8	67.2	17,490	278.67	221.5	144.7	430	8	68.5	17,700
75'	III	298.67	229.8	150.0	430	8	70.9	18,130	298.67	233.4	152.4	430	8	72.2	18,350	298.67	237.1	154.7	430	8	73.5	18,560
	C	298.67	229.8	150.0	430	8	70.3	18,110	298.67	233.4	152.4	430	8	71.6	18,330	298.67	237.1	154.7	430	8	72.9	18,540
80'	III	318.67	245.3	160.0	430	8	75.3	19,130	318.67	249.0	162.4	430	8	76.6	19,340	318.67	252.6	164.7	430	8	77.9	19,560
	C	318.67	245.3	160.0	430	8	74.7	19,110	318.67	249.0	162.4	430	8	76.0	19,320	318.67	252.6	164.7	430	8	77.3	19,540
85'	III	338.67	260.9	170.0	430	8	79.7	19,960	338.67	264.5	172.4	430	8	81.0	20,180	338.67	268.2	174.7	430	8	82.3	20,390
	IV	338.67	260.9	170.0	430	8	81.0	19,990	338.67	264.5	172.4	430	8	82.4	20,200	338.67	268.2	174.7	430	8	83.8	20,420
90'	III	358.67	276.5	180.0	430	8	84.1	20,960	358.67	280.1	182.4	430	8	85.4	21,180	358.67	283.7	184.7	430	8	86.7	21,390
	IV	358.67	276.5	180.0	430	8	85.5	20,980	358.67	280.1	182.4	430	8	86.9	21,200	358.67	283.7	184.7	430	8	88.2	21,410
95'	IV	378.67	292.0	190.0	430	8	89.9	21,820	378.67	295.6	192.4	430	8	91.3	22,040	378.67	299.3	194.7	430	8	92.7	22,250
100'	IV	398.67	307.6	200.0	430	8	94.4	22,820	398.67	311.2	202.4	430	8	95.8	23,030	398.67	314.8	204.7	430	8	97.1	23,250
105'	IV	418.67	323.1	210.0	570	8	100.3	23,840	418.67	326.8	212.4	570	8	101.7	24,050	418.67	330.4	214.7	570	8	103.1	24,270
110'	IV	438.67	338.7	220.0	570	8	104.8	24,910	438.67	342.3	222.4	570	8	106.1	25,130	438.67	345.9	224.7	570	8	107.5	25,340
115'	IV	458.67	354.2	230.0	570	8	109.2	25,750	458.67	357.9	232.4	570	8	110.6	25,960	458.67	361.5	234.7	570	8	112.0	26,180
120'	BT-72	478.67	369.8	240.0	1,120	8	129.5	28,390	478.67	373.4	242.4	1,120	8	131.0	28,610	478.67	377.1	244.7	1,120	8	132.5	28,820
	J	478.67	369.8	240.0	1,120	8	129.5	28,390	478.67	373.4	242.4	1,120	8	131.0	28,610	478.67	377.1	244.7	1,120	8	132.5	28,820
125'	BT-72	498.67	385.3	250.0	1,120	8	134.3	29,230	498.67	389.0	252.4	1,120	8	135.8	29,440	498.67	392.6	254.7	1,120	8	137.2	29,660
	J	498.67	385.3	250.0	1,120	8	134.3	29,230	498.67	389.0	252.4	1,120	8	135.8	29,440	498.67	392.6	254.7	1,120	8	137.2	29,660
130'	BT-72	518.67	400.9	260.0	1,120	8	139.0	30,220	518.67	404.5	262.4	1,120	8	140.5	30,440	518.67	408.2	264.7	1,120	8	142.0	30,650
	J	518.67	400.9	260.0	1,120	8	139.0	30,220	518.67	404.5	262.4	1,120	8	140.5	30,440	518.67	408.2	264.7	1,120	8	142.0	30,650
135'	J	538.67	416.5	270.0	1,120	8	143.7	31,060	538.67	420.1	272.4	1,120	8	145.2	31,280	538.67	423.7	274.7	1,120	8	146.7	31,490
140'	J	558.67	432.0	280.0	1,120	8	148.5	32,060	558.67	435.6	282.4	1,120	8	149.9	32,280	558.67	439.3	284.7	1,120	8	151.4	32,490
145'	J	578.67	447.6	290.0	1,120	8	153.2	32,900	578.67	451.2	292.4	1,120	8	154.7	33,110	578.67	454.8	294.7	1,120	8	156.2	33,330

- 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 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 "WEATHERING STEEL FIXED BEARING ASSEMBLY" OR "WEATHERING STEEL EXPANSION BEARING ASSEMBLY."
- ③ 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.

NOTES

QUANTITY CALCULATIONS ASSUME ALL PIERS ARE FIXED PIERS. ANY ADJUSTMENTS TO THE QUANTITIES OF "SAW-CUT GROOVING"; "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 "SAW-CUT GROOVING"; "CONCRETE RAIL (TR3)"; "CLASS AA CONCRETE" AND "REINFORCING STEEL" WILL BE BASED ON PLAN QUANTITY.

APPROVED BY BRIDGE ENGINEER <i>Robert J. Dusch</i>	DATE 9-9-2011
OKLAHOMA DEPARTMENT OF TRANSPORTATION COUNTY BRIDGE STANDARD (ENGLISH)	
SUPERSTRUCTURE QUANTITIES	
P.C. BEAMS	
(SHEET NO. 2 OF 2)	
32' CLEAR ROADWAY - CONVENTIONAL - SKEWED 30°	
2009 SPECIFICATIONS	CB32-C-SK30-SPR-QUAN-PCB-2
	01E CB-632E