

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	89.00	70.6	60.0	320	6	24.2	8,280	89.00	73.4	62.4	320	6	25.2	8,530	89.00	76.3	64.7	320	6	26.2	8,720
	B	89.00	70.6	60.0	320	6	24.1	8,270	89.00	73.4	62.4	320	6	25.1	8,520	89.00	76.3	64.7	320	6	26.1	8,710
35'	II	104.00	82.8	70.0	320	6	27.7	9,080	104.00	85.6	72.4	320	6	28.8	9,270	104.00	88.5	74.7	320	6	29.8	9,470
	B	104.00	82.8	70.0	320	6	27.6	9,070	104.00	85.6	72.4	320	6	28.6	9,270	104.00	88.5	74.7	320	6	29.6	9,460
40'	II	119.00	95.0	80.0	320	6	31.3	9,980	119.00	97.9	82.4	320	6	32.3	10,180	119.00	100.7	84.7	320	6	33.3	10,370
	B	119.00	95.0	80.0	320	6	31.1	9,980	119.00	97.9	82.4	320	6	32.1	10,170	119.00	100.7	84.7	320	6	33.1	10,360
45'	II	134.00	107.2	90.0	320	6	34.8	10,730	134.00	110.1	92.4	320	6	35.8	10,930	134.00	112.9	94.7	320	6	36.8	11,120
	B	134.00	107.2	90.0	320	6	34.6	10,720	134.00	110.1	92.4	320	6	35.6	10,920	134.00	112.9	94.7	320	6	36.7	11,120
50'	II	149.00	119.4	100.0	320	6	38.3	11,700	149.00	122.3	102.4	320	6	39.3	11,890	149.00	125.2	104.7	320	6	40.3	12,090
	B	149.00	119.4	100.0	320	6	38.2	11,690	149.00	122.3	102.4	320	6	39.2	11,890	149.00	125.2	104.7	320	6	40.2	12,080
55'	II	164.00	131.7	110.0	320	6	41.8	12,450	164.00	134.5	112.4	320	6	42.8	12,640	164.00	137.4	114.7	320	6	43.9	12,840
	B	164.00	131.7	110.0	320	6	41.7	12,440	164.00	134.5	112.4	320	6	42.7	12,630	164.00	137.4	114.7	320	6	43.7	12,830
60'	II	179.00	143.9	120.0	320	6	45.4	13,350	179.00	146.7	122.4	320	6	46.4	13,550	179.00	149.6	124.7	320	6	47.4	13,740
	C	179.00	143.9	120.0	320	6	45.9	13,350	179.00	146.7	122.4	320	6	47.0	13,550	179.00	149.6	124.7	320	6	48.1	13,740
65'	III	194.00	156.1	130.0	320	6	49.9	14,110	194.00	159.0	132.4	320	6	51.0	14,310	194.00	161.8	134.7	320	6	52.0	14,500
	C	194.00	156.1	130.0	320	6	49.5	14,100	194.00	159.0	132.4	320	6	50.5	14,290	194.00	161.8	134.7	320	6	51.6	14,490
70'	III	209.00	168.3	140.0	320	6	53.5	15,080	209.00	171.2	142.4	320	6	54.5	15,280	209.00	174.0	144.7	320	6	55.6	15,470
	C	209.00	168.3	140.0	320	6	53.0	15,060	209.00	171.2	142.4	320	6	54.1	15,260	209.00	174.0	144.7	320	6	55.1	15,450
75'	III	224.00	180.6	150.0	320	6	57.0	15,830	224.00	183.4	152.4	320	6	58.1	16,020	224.00	186.3	154.7	320	6	59.1	16,220
	C	224.00	180.6	150.0	320	6	56.6	15,810	224.00	183.4	152.4	320	6	57.6	16,010	224.00	186.3	154.7	320	6	58.7	16,200
80'	III	239.00	192.8	160.0	320	6	60.6	16,730	239.00	195.6	162.4	320	6	61.6	16,930	239.00	198.5	164.7	320	6	62.7	17,120
	IV	239.00	192.8	160.0	330	6	61.6	16,750	239.00	195.6	162.4	330	6	62.7	16,940	239.00	198.5	164.7	330	6	63.8	17,140
85'	III	254.00	205.0	170.0	320	6	64.1	17,480	254.00	207.9	172.4	320	6	65.2	17,680	254.00	210.7	174.7	320	6	66.2	17,870
	IV	254.00	205.0	170.0	330	6	65.2	17,500	254.00	207.9	172.4	330	6	66.3	17,690	254.00	210.7	174.7	330	6	67.4	17,890
90'	IV	269.00	217.2	180.0	330	6	68.8	18,400	269.00	220.1	182.4	330	6	69.9	18,600	269.00	222.9	184.7	330	6	71.0	18,790
95'	IV	284.00	229.4	190.0	330	6	72.4	19,150	284.00	232.3	192.4	330	6	73.5	19,350	284.00	235.2	194.7	330	6	74.6	19,540
100'	IV	299.00	241.7	200.0	330	6	76.0	20,060	299.00	244.5	202.4	330	6	77.1	20,250	299.00	247.4	204.7	330	6	78.2	20,450
105'	IV	314.00	253.9	210.0	430	6	80.7	21,000	314.00	256.7	212.4	430	6	81.8	21,200	314.00	259.6	214.7	430	6	82.9	21,390
110'	BT-72	329.00	266.1	220.0	840	6	95.8	23,140	329.00	269.0	222.4	840	6	97.0	23,340	329.00	271.8	224.7	840	6	98.2	23,530
	J	329.00	266.1	220.0	840	6	95.8	23,140	329.00	269.0	222.4	840	6	97.0	23,340	329.00	271.8	224.7	840	6	98.2	23,530
115'	BT-72	344.00	278.3	230.0	840	6	99.6	23,890	344.00	281.2	232.4	840	6	100.8	24,080	344.00	284.0	234.7	840	6	102.0	24,280
	J	344.00	278.3	230.0	840	6	99.6	23,890	344.00	281.2	232.4	840	6	100.8	24,080	344.00	284.0	234.7	840	6	102.0	24,280
120'	BT-72	359.00	290.6	240.0	840	6	103.4	24,790	359.00	293.4	242.4	840	6	104.6	24,990	359.00	296.3	244.7	840	6	105.8	25,180
	J	359.00	290.6	240.0	840	6	103.4	24,790	359.00	293.4	242.4	840	6	104.6	24,990	359.00	296.3	244.7	840	6	105.8	25,180
125'	J	374.00	302.8	250.0	840	6	107.2	25,540	374.00	305.6	252.4	840	6	108.4	25,740	374.00	308.5	254.7	840	6	109.6	25,930
130'	J	389.00	315.0	260.0	840	6	111.0	26,450	389.00	317.9	262.4	840	6	112.2	26,640	389.00	320.7	264.7	840	6	113.4	26,840
135'	J	404.00	327.2	270.0	840	6	114.8	27,200	404.00	330.1	272.4	840	6	116.0	27,390	404.00	332.9	274.7	840	6	117.2	27,590

- 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 135' 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 A. Dusch</i>	DATE 9-9-2011
OKLAHOMA DEPARTMENT OF TRANSPORTATION COUNTY BRIDGE STANDARD (ENGLISH)	
SUPERSTRUCTURE QUANTITIES	
P.C. BEAMS	
(SHEET NO. 2 OF 2)	
26' CLEAR ROADWAY - CONVENTIONAL - SKEWED 30°	
2009 SPECIFICATIONS	CB26-C-SK30-SPR-QUAN-PCB-2
	01E CB-255E