

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	70.9	60.0	280	6	23.9	5,740	89.00	71.8	60.7	280	6	24.2	5,760	89.00	72.6	61.4	280	6	24.5	5,790
	B	89.00	70.9	60.0	290	6	23.8	5,730	89.00	71.8	60.7	290	6	24.1	5,760	89.00	72.6	61.4	290	6	24.4	5,790
35'	II	104.00	83.2	70.0	280	6	27.5	6,490	104.00	84.0	70.7	280	6	27.7	6,520	104.00	84.8	71.4	280	6	28.0	6,540
	B	104.00	83.2	70.0	290	6	27.3	6,480	104.00	84.0	70.7	290	6	27.6	6,510	104.00	84.8	71.4	290	6	27.9	6,530
40'	II	119.00	95.4	80.0	280	6	31.0	7,390	119.00	96.2	80.7	280	6	31.3	7,420	119.00	97.0	81.4	280	6	31.6	7,450
	B	119.00	95.4	80.0	290	6	30.8	7,380	119.00	96.2	80.7	290	6	31.1	7,410	119.00	97.0	81.4	290	6	31.4	7,440
45'	II	134.00	107.6	90.0	280	6	34.5	8,140	134.00	108.4	90.7	280	6	34.8	8,170	134.00	109.2	91.4	280	6	35.1	8,200
	B	134.00	107.6	90.0	290	6	34.4	8,130	134.00	108.4	90.7	290	6	34.6	8,160	134.00	109.2	91.4	290	6	34.9	8,190
50'	II	149.00	119.8	100.0	280	6	38.0	9,110	149.00	120.6	100.7	280	6	38.3	9,130	149.00	121.5	101.4	280	6	38.6	9,160
	B	149.00	119.8	100.0	290	6	37.9	9,100	149.00	120.6	100.7	290	6	38.2	9,120	149.00	121.5	101.4	290	6	38.5	9,150
55'	II	164.00	132.0	110.0	280	6	41.5	9,850	164.00	132.9	110.7	280	6	41.8	9,880	164.00	133.7	111.4	280	6	42.1	9,910
	B	164.00	132.0	110.0	290	6	41.4	9,850	164.00	132.9	110.7	290	6	41.7	9,880	164.00	133.7	111.4	290	6	42.0	9,900
60'	II	179.00	144.3	120.0	280	6	45.1	10,760	179.00	145.1	120.7	280	6	45.4	10,790	179.00	145.9	121.4	280	6	45.6	10,820
	C	179.00	144.3	120.0	290	6	45.6	10,770	179.00	145.1	120.7	290	6	45.9	10,800	179.00	145.9	121.4	290	6	46.2	10,830
65'	III	194.00	156.5	130.0	290	6	49.6	11,530	194.00	157.3	130.7	290	6	49.9	11,560	194.00	158.1	131.4	290	6	50.2	11,590
	C	194.00	156.5	130.0	290	6	49.2	11,520	194.00	157.3	130.7	290	6	49.5	11,550	194.00	158.1	131.4	290	6	49.8	11,570
70'	III	209.00	168.7	140.0	290	6	53.1	12,500	209.00	169.5	140.7	290	6	53.4	12,520	209.00	170.3	141.4	290	6	53.7	12,550
	C	209.00	168.7	140.0	290	6	52.7	12,480	209.00	169.5	140.7	290	6	53.0	12,510	209.00	170.3	141.4	290	6	53.3	12,540
75'	III	224.00	180.9	150.0	290	6	56.7	13,250	224.00	181.8	150.7	290	6	57.0	13,280	224.00	182.6	151.4	290	6	57.3	13,300
	C	224.00	180.9	150.0	290	6	56.2	13,230	224.00	181.8	150.7	290	6	56.5	13,260	224.00	182.6	151.4	290	6	56.9	13,290
80'	III	239.00	193.2	160.0	290	6	60.2	14,150	239.00	194.0	160.7	290	6	60.5	14,180	239.00	194.8	161.4	290	6	60.8	14,210
	IV	239.00	193.2	160.0	290	6	61.2	14,170	239.00	194.0	160.7	290	6	61.5	14,190	239.00	194.8	161.4	290	6	61.8	14,220
85'	III	254.00	205.4	170.0	290	6	63.8	14,900	254.00	206.2	170.7	290	6	64.1	14,930	254.00	207.0	171.4	290	6	64.4	14,960
	IV	254.00	205.4	170.0	290	6	64.8	14,910	254.00	206.2	170.7	290	6	65.1	14,940	254.00	207.0	171.4	290	6	65.4	14,970
90'	IV	269.00	217.6	180.0	290	6	68.4	15,820	269.00	218.4	180.7	290	6	68.7	15,850	269.00	219.2	181.4	290	6	69.0	15,880
95'	IV	284.00	229.8	190.0	290	6	72.0	16,570	284.00	230.6	190.7	290	6	72.3	16,600	284.00	231.5	191.4	290	6	72.6	16,630
100'	IV	299.00	242.0	200.0	290	6	75.6	17,480	299.00	242.9	200.7	290	6	75.9	17,500	299.00	243.7	201.4	290	6	76.2	17,530
105'	IV	314.00	254.3	210.0	380	6	80.3	18,360	314.00	255.1	210.7	380	6	80.6	18,390	314.00	255.9	211.4	380	6	80.9	18,420
110'	BT-72	329.00	266.5	220.0	750	6	94.6	20,440	329.00	267.3	220.7	750	6	95.0	20,470	329.00	268.1	221.4	750	6	95.3	20,500
	J	329.00	266.5	220.0	750	6	94.6	20,440	329.00	267.3	220.7	750	6	95.0	20,470	329.00	268.1	221.4	750	6	95.3	20,500
115'	BT-72	344.00	278.7	230.0	750	6	98.4	21,190	344.00	279.5	230.7	750	6	98.8	21,220	344.00	280.3	231.4	750	6	99.1	21,250
	J	344.00	278.7	230.0	750	6	98.4	21,190	344.00	279.5	230.7	750	6	98.8	21,220	344.00	280.3	231.4	750	6	99.1	21,250
120'	BT-72	359.00	290.9	240.0	750	6	102.2	22,100	359.00	291.8	240.7	750	6	102.6	22,120	359.00	292.6	241.4	750	6	102.9	22,150
	J	359.00	290.9	240.0	750	6	102.2	22,100	359.00	291.8	240.7	750	6	102.6	22,120	359.00	292.6	241.4	750	6	102.9	22,150
125'	J	374.00	303.2	250.0	750	6	106.0	22,850	374.00	304.0	250.7	750	6	106.4	22,880	374.00	304.8	251.4	750	6	106.7	22,900
130'	J	389.00	315.4	260.0	750	6	109.8	23,750	389.00	316.2	260.7	750	6	110.2	23,780	389.00	317.0	261.4	750	6	110.5	23,810
135'	J	404.00	327.6	270.0	750	6	113.6	24,500	404.00	328.4	270.7	750	6	114.0	24,530	404.00	329.2	271.4	750	6	114.3	24,560

- 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 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)	
26' CLEAR ROADWAY - CONVENTIONAL - SKEWED 0°	
2009 SPECIFICATIONS	CB26-C-SKO-SPR-QUAN-PCB-2
	01E CB-191E