

SUMMARY OF QUANTITIES - SUPERSTRUCTURE (PER SPAN)

SPAN	PRESTRESSED CONCRETE BEAM TYPE	ABUTMENT TO ABUTMENT							ABUTMENT TO STANDARD PIER							ABUTMENT TO STEPPED PIER									
		PRESTRESSED CONCRETE BEAMS (TYPE ①)	SAW-CUT GROOVING	CONCRETE RAIL (TR3)	STRUCTURAL STEEL ②	WEATHERING STEEL FIXED BEARING ASSEMBLY ③	WEATHERING STEEL EXPANSION BEARING ASSEMBLY ③	CLASS AA CONCRETE	REINFORCING STEEL ④	PRESTRESSED CONCRETE BEAMS (TYPE ①)	SAW-CUT GROOVING	CONCRETE RAIL (TR3)	STRUCTURAL STEEL ②	WEATHERING STEEL FIXED BEARING ASSEMBLY ③	WEATHERING STEEL FIXED OR EXPANSION BEARING ASSEMBLY ③	CLASS AA CONCRETE	REINFORCING STEEL ⑤	PRESTRESSED CONCRETE BEAMS (TYPE ①)	SAW-CUT GROOVING	CONCRETE RAIL (TR3)	STRUCTURAL STEEL ②	WEATHERING STEEL FIXED BEARING ASSEMBLY ③	WEATHERING STEEL FIXED OR EXPANSION BEARING ASSEMBLY ③	CLASS AA CONCRETE	REINFORCING STEEL ⑤
		(LF)	(SY)	(LF)	(LB)	(EA)	(EA)	(CY)	(LB)	(LF)	(SY)	(LF)	(LB)	(EA)	(EA)	(CY)	(LB)	(LF)	(SY)	(LF)	(LB)	(EA)	(EA)	(CY)	(LB)
30'	II	89.00	83.3	70.5	580	3	3	29.5	9,260	89.00	76.9	65.3	450	3	3	26.9	8,860	89.00	79.8	67.6	450	3	3	27.9	9,050
	B	89.00	83.3	70.5	580	3	3	29.3	9,250	89.00	76.9	65.3	450	3	3	26.7	8,850	89.00	79.8	67.6	450	3	3	27.7	9,040
35'	II	104.00	95.5	80.5	580	3	3	33.0	10,170	104.00	89.2	75.3	450	3	3	30.4	9,600	104.00	92.0	77.6	450	3	3	31.4	9,800
	B	104.00	95.5	80.5	580	3	3	32.9	10,160	104.00	89.2	75.3	450	3	3	30.2	9,590	104.00	92.0	77.6	450	3	3	31.2	9,790
40'	II	119.00	107.8	90.5	580	3	3	36.5	10,910	119.00	101.4	85.3	450	3	3	33.9	10,510	119.00	104.2	87.6	450	3	3	34.9	10,700
	B	119.00	107.8	90.5	580	3	3	36.4	10,900	119.00	101.4	85.3	450	3	3	33.7	10,500	119.00	104.2	87.6	450	3	3	34.8	10,690
45'	II	134.00	120.0	100.5	580	3	3	40.1	11,820	134.00	113.6	95.3	450	3	3	37.4	11,260	134.00	116.5	97.6	450	3	3	38.4	11,450
	B	134.00	120.0	100.5	580	3	3	39.9	11,810	134.00	113.6	95.3	450	3	3	37.3	11,250	134.00	116.5	97.6	450	3	3	38.3	11,450
50'	II	149.00	132.2	110.5	580	3	3	43.6	12,570	149.00	125.8	105.3	450	3	3	40.9	12,220	149.00	128.7	107.6	450	3	3	42.0	12,420
	B	149.00	132.2	110.5	580	3	3	43.4	12,560	149.00	125.8	105.3	450	3	3	40.8	12,220	149.00	128.7	107.6	450	3	3	41.8	12,410
55'	II	164.00	144.4	120.5	580	3	3	47.1	13,470	164.00	138.1	115.3	450	3	3	44.5	12,970	164.00	140.9	117.6	450	3	3	45.5	13,170
	B	164.00	144.4	120.5	580	3	3	46.9	13,470	164.00	138.1	115.3	450	3	3	44.3	12,960	164.00	140.9	117.6	450	3	3	45.3	13,160
60'	II	179.00	156.7	130.5	580	3	3	50.6	14,340	179.00	150.3	125.3	450	3	3	48.0	13,880	179.00	153.1	127.6	450	3	3	49.0	14,070
	C	179.00	156.7	130.5	580	3	3	51.3	14,340	179.00	150.3	125.3	450	3	3	48.6	13,880	179.00	153.1	127.6	450	3	3	49.7	14,070
65'	III	194.00	168.9	140.5	580	3	3	55.3	15,260	194.00	162.5	135.3	450	3	3	52.6	14,640	194.00	165.3	137.6	450	3	3	53.7	14,830
	C	194.00	168.9	140.5	580	3	3	54.8	15,240	194.00	162.5	135.3	450	3	3	52.2	14,620	194.00	165.3	137.6	450	3	3	53.2	14,820
70'	III	209.00	181.1	150.5	580	3	3	58.8	16,010	209.00	174.7	145.3	450	3	3	56.1	15,600	209.00	177.6	147.6	450	3	3	57.2	15,800
	C	209.00	181.1	150.5	580	3	3	58.4	15,990	209.00	174.7	145.3	450	3	3	55.7	15,590	209.00	177.6	147.6	450	3	3	56.8	15,780
75'	III	224.00	193.3	160.5	580	3	3	62.4	16,910	224.00	186.9	155.3	450	3	3	59.7	16,350	224.00	189.8	157.6	450	3	3	60.8	16,550
	C	224.00	193.3	160.5	580	3	3	61.9	16,900	224.00	186.9	155.3	450	3	3	59.2	16,340	224.00	189.8	157.6	450	3	3	60.3	16,530
80'	III	239.00	205.5	170.5	580	3	3	65.9	17,660	239.00	199.2	165.3	450	3	3	63.3	17,260	239.00	202.0	167.6	450	3	3	64.3	17,450
	IV	239.00	205.5	170.5	590	3	3	67.0	17,680	239.00	199.2	165.3	460	3	3	64.3	17,270	239.00	202.0	167.6	460	3	3	65.4	17,470
85'	III	254.00	217.8	180.5	580	3	3	69.5	18,570	254.00	211.4	175.3	450	3	3	66.8	18,010	254.00	214.2	177.6	450	3	3	67.9	18,200
	IV	254.00	217.8	180.5	590	3	3	70.6	18,580	254.00	211.4	175.3	460	3	3	67.9	18,020	254.00	214.2	177.6	460	3	3	69.0	18,220
90'	IV	269.00	230.0	190.5	590	3	3	74.2	19,330	269.00	223.6	185.3	460	3	3	71.5	18,930	269.00	226.5	187.6	460	3	3	72.6	19,120
95'	IV	284.00	242.2	200.5	590	3	3	77.8	20,240	284.00	235.8	195.3	460	3	3	75.1	19,680	284.00	238.7	197.6	460	3	3	76.2	19,870
100'	IV	299.00	254.4	210.5	590	3	3	81.4	20,980	299.00	248.1	205.3	460	3	3	78.7	20,580	299.00	250.9	207.6	460	3	3	79.8	20,770
105'	IV	314.00	266.7	220.5	690	3	3	86.1	22,030	314.00	260.3	215.3	560	3	3	83.4	21,530	314.00	263.1	217.6	560	3	3	84.5	21,720
110'	BT-72	329.00	278.9	230.5	1,100	3	3	101.4	24,010	329.00	272.5	225.3	970	3	3	98.6	23,670	329.00	275.3	227.6	970	3	3	99.8	23,860
	J	329.00	278.9	230.5	1,100	3	3	101.4	24,010	329.00	272.5	225.3	970	3	3	98.6	23,670	329.00	275.3	227.6	970	3	3	99.8	23,860
115'	BT-72	344.00	291.1	240.5	1,100	3	3	105.2	25,030	344.00	284.7	235.3	970	3	3	102.4	24,410	344.00	287.6	237.6	970	3	3	103.6	24,610
	J	344.00	291.1	240.5	1,100	3	3	105.2	25,030	344.00	284.7	235.3	970	3	3	102.4	24,410	344.00	287.6	237.6	970	3	3	103.6	24,610
120'	BT-72	359.00	303.3	250.5	1,100	3	3	109.0	25,780	359.00	296.9	245.3	970	3	3	106.2	25,320	359.00	299.8	247.6	970	3	3	107.4	25,510
	J	359.00	303.3	250.5	1,100	3	3	109.0	25,780	359.00	296.9	245.3	970	3	3	106.2	25,320	359.00	299.8	247.6	970	3	3	107.4	25,510
125'	J	374.00	315.5	260.5	1,100	3	3	112.8	26,690	374.00	309.2	255.3	970	3	3	110.0	26,070	374.00	312.0	257.6	970	3	3	111.2	26,260
130'	J	389.00	327.8	270.5	1,100	3	3	116.6	27,440	389.00	321.4	265.3	970	3	3	113.8	26,970	389.00	324.2	267.6	970	3	3	115.0	27,170
135'	J	404.00	340.0	280.5	1,100	3	3	120.4	28,340	404.00	333.6	275.3	970	3	3	117.6	27,720	404.00	336.5	277.6	970	3	3	118.8	27,920

- 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 QUANTITIES SHOWN INCLUDE WEIGHT OF STEEL ANGLE BUMPERS AT ABUTMENT ENDS OF DECK SLAB. FOR EACH STEEL ANGLE BUMPER OMITTED FROM END OF DECK SLAB, DEDUCT 130 POUNDS FROM THE QUANTITIES SHOWN.
- 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 "WEATHERING STEEL FIXED BEARING ASSEMBLY" OR "WEATHERING STEEL EXPANSION BEARING ASSEMBLY."
- ④ QUANTITY INCLUDES PROVISION FOR LAP SPLICES REQUIRED IN THE LONGITUDINAL REINFORCING STEEL AS FOLLOWS:
30' THRU 55' SPANS - NO LAP SPLICES
60' THRU 110' SPANS - 1 LAP SPLICE
115' THRU 135' SPANS - 2 LAP SPLICES
- ⑤ 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.

PRESTRESSED CONCRETE BEAM TYPE	SPAN	WEATHERING STEEL FIXED OR EXPANSION BEARING ASSEMBLY (LB)
II AND B	30' THRU 60'	150
III AND C	60' AND 65'	160
	70' THRU 85'	170
IV AND BT-72	80' THRU 90'	190
	95' THRU 110'	200
	115' AND 120'	210
J	110' THRU 135'	220

ITEM	UNIT	TOTAL
SEALED EXPANSION JOINT	LF	33.06

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. Dush</i>	DATE 9-9-2011
OKLAHOMA DEPARTMENT OF TRANSPORTATION COUNTY BRIDGE STANDARD (ENGLISH)	
SUPERSTRUCTURE QUANTITIES	
P.C. BEAMS	
(SHEET NO. 1 OF 2)	
26' CLEAR ROADWAY - CONVENTIONAL - SKEWED 30°	
2009 SPECIFICATIONS	CB26-C-SK30-SPR-QUAN-PCB-1 01E
	CB-254E